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

DATA PACKAGE

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

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2025

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : Q1488

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group

Client : Portal Partners Tri-Venture

Project Location : Kearny, NJ

Project Number : 9500000818

Laboratory Sample ID(s) : Q1488

Sampling Date(s) : 03/04/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311ZHE,6010D,7196A,7470A,7471B,8081B,8082A,8151A,8260E,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 : Q1488

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1488-01	ENV-101-SB01
Q1488-02	ENV-101-SB01
Q1488-03	ENV-101-SB02
Q1488-04	ENV-101-SB02
Q1488-05	ENV-102-SB01
Q1488-06	ENV-102-SB01
Q1488-07	ENV-102-SB02
Q1488-08	ENV-102-SB02
Q1488-09	ENV-104-SB01
Q1488-10	ENV-104-SB01
Q1488-11	ENV-104-SB02
Q1488-12	ENV-104-SB02
Q1488-13	ENV-102-GW01
Q1488-14	ENV-104-GW01
Q1488-15	TB03042025

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 8:15 am, Mar 18, 2025*

Date: 3/18/2025

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 # Q1488
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe 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 except for ENV-104-SB01 [4-Bromofluorobenzene - 66%], ENV-104-SB02 [4-Bromofluorobenzene - 53%],these compounds did not meet the NJDKQP criteria but meet in-house criteria.

The Internal Standards Areas met the acceptable requirements except for ENV-104-SB02, VIAL A analyzed but did not purge As a corrective action VIAL B analyzed but Internal Standard Fail, therefore VIAL B reported as final analysis.

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.

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The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample ENV-104-GW01 was diluted due to high concentration.

The Samples ENV-104-GW01, ENV-104-GW01DL and TB03042025 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

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

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

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 8:15 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

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

The Surrogate recoveries met the acceptable criteria except for BR-05-465-030525MS [Dibromofluoromethane - 0%], BR-05-465-030525MSD [Dibromofluoromethane - 0%],these compounds did not meet the NJDKQP criteria and in-house criteria,MS-MSD surrogate failure confirm with parent sample.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1501-05MS} with File ID: VX045163.D recoveries met the requirements for all compounds except for 1,1-Dichloroethene[140%]this compound did not meet the NJDKQP criteria but met the in-house criteria, while Tetrachloroethene[178%] and Trichloroethene[190%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {Q1501-06MSD} with File ID: VX045164.D recoveries met the acceptable requirements except for 1,1-Dichloroethene[146%], this compound did not meet the

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NJDKQP criteria but met the in-house criteria, while Tetrachloroethene[171%] and Trichloroethene[183%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

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

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples therefore lab used from another project.

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

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 8:16 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

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

The Surrogate recoveries met the acceptable criteria except for PB166982BL [2,4,6-Tribromophenol - 115%], PB166982BS [2,4,6-Tribromophenol - 118%], PB166982BSD [2,4,6-Tribromophenol - 116%], ENV-102-GW01 [2,4,6-Tribromophenol - 116%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, but ENV-104-GW01 [2,4,6-Tribromophenol - 140% and Nitro benzene-d5 - 134%], these compounds did not meet the NJDKQP criteria and in-house criteria but as per method two surrogates are allowed to failed, therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1487-01MS} with File ID: BF141844.D recoveries met the requirements for all compounds except for 3-Nitroaniline[68%], 4-Chloroaniline[48%], Benzo(g,h,i)perylene [58%], Dibenz(a,h)anthracene[68%] and Indeno(1,2,3-

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cd)pyrene[68%],these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1487-01MSD} with File ID: BF141845.D recoveries met the acceptable requirements except for 4-Chloroaniline[50%], Benzo(g,h,i)perylene[58%] and Indeno(1,2,3-cd)pyrene[68%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria .

The Blank Spike for {PB166984BS} with File ID: BF141860.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[65%], 3-Nitroaniline[50%] and 4-Chloroaniline[24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria
.
The Blank Spike for {PB166982BS} with File ID: BF141862.D met requirements for all samples except for 3,3-Dichlorobenzidine[57%], 3-Nitroaniline[67%] and 4-Chloroaniline[39%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB166982BSD} with File ID: BF141863.D met requirements for all samples except for 3,3-Dichlorobenzidine[59%], 3-Nitroaniline[69%] and 4-Chloroaniline[40%], 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-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.

The Continuous Calibration File ID BF141835.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitrophenol , The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141858.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Benzo(g,h,i)perylene and Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

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E. Additional Comments:
The Sample ENV-102-SB01, ENV-104-SB01, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Sample # ENV-102-GW01, ENV-104-GW01, was received with limited volume.

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

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

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

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:18 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G 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 ENV-101-SB01 [2,4,6-Tribromophenol - 124%], ENV-101-SB01MS [2,4,6-Tribromophenol - 122%], ENV-101-SB01MSD [2,4,6-Tribromophenol - 116%], ENV-101-SB02 [2,4,6-Tribromophenol - 113%], ENV-102-SB01 [2,4,6-Tribromophenol - 119%], ENV-102-SB02 [2,4,6-Tribromophenol - 116%], ENV-104-SB02 [2,4 and6-Tribromophenol - 113%]. these surrogate did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.

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The Blank Spike 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 (8270-BF022725.M) for 2,4-Dinitrotoluene, this compound is passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BG030525.M) for 2,4-Dinitrotoluen this compounds is passing on Linear Regression.

The Continuous Calibration File ID BF141882.D met the requirements except for 2,4-Dinitrotoluene, 2,4,6-Tribromophenol and Nitrobenzene-d5 .The associate samples have no positive hit for these compounds therefore no corrective action was required.
Pentachlorophenol is failing high and associate sample having hit but below CRQL therefore no corrective action 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 <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 8:20 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-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.

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 8:20 am, Mar 18, 2025

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: PCB

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

D. QA/ QC Samples:

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

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The Continuous Calibration File ID PO109662.D met the requirements except for Decachlorobiphenyl is failing in 1st column ,but passing in 2nd column therefore no corrective action taken.

E. Additional Comments:

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

Less volume was taken for samples #ENV-102-GW01 at the time of extraction due to Limited volume received.

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.

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:20 am, Mar 18, 2025

Signature_____

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

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

The Surrogate recoveries met the acceptable criteria except for ENV-101-SB01 [2,4-DCAA(2) - 69%], ENV-104-SB01 [2,4-DCAA(1) - 51%, 2,4-DCAA(2) - 39%], ENV-104-SB02 [2 and4-DCAA(2) - 56%]these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Retention Times were acceptable for all samples.

The MS {Q1488-02MS} with File ID: PS029402.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[140%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

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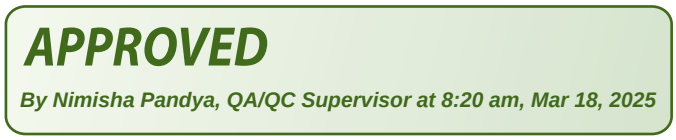
The MSD {Q1488-02MSD} with File ID: PS029403.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[152%]this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

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

E. Additional Comments:

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

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

Signature 

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: EPH

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD 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 8:21 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample ENV-102-GW01 was diluted due to high concentrations for Mercury.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (OR-03-030425MS) analysis met criteria for all samples except for Antimony and Sodium due to Chemical Interference during Digestion Process. The Matrix Spike (PURGE-WATERMS) analysis met criteria for all samples except for Silver due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (OR-03-030425MSD) analysis met criteria for all samples except for Antimony and Sodium due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (PURGE-WATERMSD) analysis met criteria for all samples except for Silver due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Sample Q1488-13 , Silver is Oversaturated , so Reported from 10X Dilutions.

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 8:21 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
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 8:21 am, Mar 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1488
Test Name: Hexavalent Chromium,Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 03/04/2025.
3 Water samples were received on 03/04/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all samples except for ENV-101-SB01 of Corrosivity, for ENV-101-SB02 of Corrosivity.for ENV-102-SB01 of Corrosivity.for ENV-102-SB02 of Corrosivity.for ENV-104-SB01 of Corrosivity.for ENV-104-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 Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:21 am, Mar 18, 2025

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1488

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

QA Review Signature: SOHIL JODHANI **Date:** 03/18/2025

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**ENV-101-SB02**							
Q1488-03	ENV-101-SB02	SOIL	Acetone	11.4	J	4.30	17.1	ug/Kg
			Total Voc :	11.4				
Q1488-03	ENV-101-SB02	SOIL	11H-Dibenzo[b,e][1,4]diazepin *	4.70	J	0	0	ug/Kg
			Total Tics :	4.70				
			Total Concentration:	16.1				
Client ID:	**ENV-102-SB02**							
Q1488-07	ENV-102-SB02	SOIL	Acetone	8.60	J	5.30	21.1	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Carbon Disulfide	8.40		1.10	4.20	ug/Kg
			Total Voc :	17.0				
			Total Concentration:	17.0				
Client ID:	**ENV-104-SB01**							
Q1488-09	ENV-104-SB01	SOIL	Acetone	9.00	J	6.40	25.6	ug/Kg
			Total Voc :	9.00				
			Total Concentration:	9.00				
Client ID:	**ENV-104-SB02**							
Q1488-11	ENV-104-SB02	SOIL	Acetone	150		6.20	24.8	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Carbon Disulfide	1.30	J	1.30	5.00	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Methylene Chloride	4.30	J	3.40	9.90	ug/Kg
			Total Voc :	156				
Q1488-11	ENV-104-SB02	SOIL	11H-Dibenzo[b,e][1,4]diazepin *	21.6	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Tert butyl alcohol *	140	J	15.5	24.8	ug/Kg
			Total Tics :	162				
			Total Concentration:	317				
Client ID:	**ENV-102-GW01**							
Q1488-13	ENV-102-GW01	Water	Acetone	9.00		1.40	5.00	ug/L
Q1488-13	ENV-102-GW01	Water	Toluene	2.70		0.18	1.00	ug/L
			Total Voc :	11.7				
			Total Concentration:	11.7				
Client ID:	**ENV-104-GW01**							
Q1488-14	ENV-104-GW01	Water	Acetone	830	E	1.40	5.00	ug/L
Q1488-14	ENV-104-GW01	Water	Methylcyclohexane	0.39	J	0.19	1.00	ug/L
Q1488-14	ENV-104-GW01	Water	Toluene	0.31	J	0.18	1.00	ug/L
			Total Voc :	831				
			Total Concentration:	831				
Client ID:	**ENV-104-GW01DL**							
Q1488-14DL	ENV-104-GW01DL	Water	Acetone	1000	D	5.60	20.0	ug/L
			Total Voc :	1000				
			Total Concentration:	1000				

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	7.78 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
VY021435.D	1		03/06/25 15:25	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.60	ug/Kg
74-87-3	Chloromethane	0.84	U	0.84	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.56	U	0.56	3.60	ug/Kg
74-83-9	Bromomethane	0.75	U	0.75	3.60	ug/Kg
75-00-3	Chloroethane	0.73	U	0.73	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.66	U	0.66	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	0.57	3.60	ug/Kg
67-64-1	Acetone	4.50	U	4.50	18.2	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.49	U	0.49	3.60	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	3.60	ug/Kg
75-09-2	Methylene Chloride	2.50	U	2.50	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.61	U	0.61	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.46	U	0.46	3.60	ug/Kg
110-82-7	Cyclohexane	0.50	U	0.50	3.60	ug/Kg
78-93-3	2-Butanone	4.10	U	4.10	18.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.63	U	0.63	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.44	U	0.44	3.60	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.60	ug/Kg
67-66-3	Chloroform	0.49	U	0.49	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.57	U	0.57	3.60	ug/Kg
108-87-2	Methylcyclohexane	0.63	U	0.63	3.60	ug/Kg
71-43-2	Benzene	0.52	U	0.52	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.44	U	0.44	3.60	ug/Kg
79-01-6	Trichloroethene	0.54	U	0.54	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	18.2	ug/Kg
108-88-3	Toluene	0.49	U	0.49	3.60	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	7.78 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
VY021435.D	1		03/06/25 15:25	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.44	U	0.44	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.41	U	0.41	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.61	U	0.61	3.60	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	18.2	ug/Kg
124-48-1	Dibromochloromethane	0.47	U	0.47	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.57	U	0.57	3.60	ug/Kg
127-18-4	Tetrachloroethene	0.65	U	0.65	3.60	ug/Kg
108-90-7	Chlorobenzene	0.54	U	0.54	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.45	U	0.45	3.60	ug/Kg
179601-23-1	m/p-Xylenes	0.98	U	0.98	7.30	ug/Kg
95-47-6	o-Xylene	0.51	U	0.51	3.60	ug/Kg
100-42-5	Styrene	0.44	U	0.44	3.60	ug/Kg
75-25-2	Bromoform	0.59	U	0.59	3.60	ug/Kg
98-82-8	Isopropylbenzene	0.49	U	0.49	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	0.80	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.54	U	0.54	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.58	U	0.58	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.43	U	0.43	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	65.1		70 (63) - 130 (155)	130%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		70 (38) - 130 (136)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	7.707			
540-36-3	1,4-Difluorobenzene	456000	8.616			
3114-55-4	Chlorobenzene-d5	411000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	7.78 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
VY021435.D	1		03/06/25 15:25	VY030625

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.6
Sample Wt/Vol:	8.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021436.D	1		03/06/25 15:49	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	3.40	ug/Kg
74-87-3	Chloromethane	0.80	U	0.80	3.40	ug/Kg
75-01-4	Vinyl Chloride	0.53	U	0.53	3.40	ug/Kg
74-83-9	Bromomethane	0.71	U	0.71	3.40	ug/Kg
75-00-3	Chloroethane	0.69	U	0.69	3.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.62	U	0.62	3.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.73	U	0.73	3.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.53	U	0.53	3.40	ug/Kg
67-64-1	Acetone	11.4	J	4.30	17.1	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	3.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.46	U	0.46	3.40	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.40	ug/Kg
75-09-2	Methylene Chloride	2.30	U	2.30	6.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.58	U	0.58	3.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.43	U	0.43	3.40	ug/Kg
110-82-7	Cyclohexane	0.47	U	0.47	3.40	ug/Kg
78-93-3	2-Butanone	3.90	U	3.90	17.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.60	U	0.60	3.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.42	U	0.42	3.40	ug/Kg
74-97-5	Bromochloromethane	1.70	U	1.70	3.40	ug/Kg
67-66-3	Chloroform	0.46	U	0.46	3.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.53	U	0.53	3.40	ug/Kg
108-87-2	Methylcyclohexane	0.60	U	0.60	3.40	ug/Kg
71-43-2	Benzene	0.49	U	0.49	3.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.42	U	0.42	3.40	ug/Kg
79-01-6	Trichloroethene	0.51	U	0.51	3.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.45	U	0.45	3.40	ug/Kg
75-27-4	Bromodichloromethane	0.38	U	0.38	3.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	17.1	ug/Kg
108-88-3	Toluene	0.46	U	0.46	3.40	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.6
Sample Wt/Vol:	8.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021436.D	1		03/06/25 15:49	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.41	U	0.41	3.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.39	U	0.39	3.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.58	U	0.58	3.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	17.1	ug/Kg
124-48-1	Dibromochloromethane	0.45	U	0.45	3.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.54	U	0.54	3.40	ug/Kg
127-18-4	Tetrachloroethene	0.61	U	0.61	3.40	ug/Kg
108-90-7	Chlorobenzene	0.51	U	0.51	3.40	ug/Kg
100-41-4	Ethyl Benzene	0.43	U	0.43	3.40	ug/Kg
179601-23-1	m/p-Xylenes	0.93	U	0.93	6.90	ug/Kg
95-47-6	o-Xylene	0.48	U	0.48	3.40	ug/Kg
100-42-5	Styrene	0.41	U	0.41	3.40	ug/Kg
75-25-2	Bromoform	0.56	U	0.56	3.40	ug/Kg
98-82-8	Isopropylbenzene	0.46	U	0.46	3.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	0.75	3.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.51	U	0.51	3.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.55	U	0.55	3.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.40	U	0.40	3.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.54	U	0.54	3.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.53	U	0.53	3.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		70 (63) - 130 (155)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		70 (38) - 130 (136)	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	7.707			
540-36-3	1,4-Difluorobenzene	429000	8.616			
3114-55-4	Chlorobenzene-d5	378000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.6
Sample Wt/Vol:	8.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021436.D	1		03/06/25 15:49	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	4.70	J		13.9	ug/Kg

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	7.37 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
VY021437.D	1		03/06/25 16:12	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.92	U	0.92	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	4.00	ug/Kg
74-83-9	Bromomethane	0.82	U	0.82	4.00	ug/Kg
75-00-3	Chloroethane	0.80	U	0.80	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.72	U	0.72	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.85	U	0.85	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.62	U	0.62	4.00	ug/Kg
67-64-1	Acetone	4.90	U	4.90	19.8	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.53	U	0.53	4.00	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.00	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.50	U	0.50	4.00	ug/Kg
110-82-7	Cyclohexane	0.55	U	0.55	4.00	ug/Kg
78-93-3	2-Butanone	4.50	U	4.50	19.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.69	U	0.69	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.48	U	0.48	4.00	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	4.00	ug/Kg
67-66-3	Chloroform	0.53	U	0.53	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.62	U	0.62	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.69	U	0.69	4.00	ug/Kg
71-43-2	Benzene	0.57	U	0.57	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.48	U	0.48	4.00	ug/Kg
79-01-6	Trichloroethene	0.59	U	0.59	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.52	U	0.52	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.44	U	0.44	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	19.8	ug/Kg
108-88-3	Toluene	0.53	U	0.53	4.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	7.37 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
VY021437.D	1		03/06/25 16:12	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.47	U	0.47	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.45	U	0.45	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.66	U	0.66	4.00	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	19.8	ug/Kg
124-48-1	Dibromochloromethane	0.51	U	0.51	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.63	U	0.63	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.70	U	0.70	4.00	ug/Kg
108-90-7	Chlorobenzene	0.59	U	0.59	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.49	U	0.49	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	7.90	ug/Kg
95-47-6	o-Xylene	0.55	U	0.55	4.00	ug/Kg
100-42-5	Styrene	0.47	U	0.47	4.00	ug/Kg
75-25-2	Bromoform	0.64	U	0.64	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.53	U	0.53	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.87	U	0.87	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.59	U	0.59	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.63	U	0.63	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.47	U	0.47	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.62	U	0.62	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	64.0		70 (63) - 130 (155)	128%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		70 (38) - 130 (136)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	7.707			
540-36-3	1,4-Difluorobenzene	451000	8.616			
3114-55-4	Chlorobenzene-d5	409000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	7.37 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
VY021437.D	1		03/06/25 16:12	VY030625

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.1
Sample Wt/Vol:	7.4 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
VY021459.D	1		03/07/25 14:28	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.20	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.20	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	4.20	ug/Kg
75-00-3	Chloroethane	0.85	U	0.85	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.77	U	0.77	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.90	U	0.90	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.66	U	0.66	4.20	ug/Kg
67-64-1	Acetone	8.60	J	5.30	21.1	ug/Kg
75-15-0	Carbon Disulfide	8.40		1.10	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	4.20	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.20	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.53	U	0.53	4.20	ug/Kg
110-82-7	Cyclohexane	0.58	U	0.58	4.20	ug/Kg
78-93-3	2-Butanone	4.80	U	4.80	21.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.73	U	0.73	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.51	U	0.51	4.20	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.20	ug/Kg
67-66-3	Chloroform	0.57	U	0.57	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.66	U	0.66	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.73	U	0.73	4.20	ug/Kg
71-43-2	Benzene	0.61	U	0.61	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.51	U	0.51	4.20	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.56	U	0.56	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.47	U	0.47	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	21.1	ug/Kg
108-88-3	Toluene	0.57	U	0.57	4.20	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.1
Sample Wt/Vol:	7.4 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
VY021459.D	1		03/07/25 14:28	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	4.20	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	21.1	ug/Kg
124-48-1	Dibromochloromethane	0.55	U	0.55	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.67	U	0.67	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.75	U	0.75	4.20	ug/Kg
108-90-7	Chlorobenzene	0.62	U	0.62	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.40	ug/Kg
95-47-6	o-Xylene	0.59	U	0.59	4.20	ug/Kg
100-42-5	Styrene	0.51	U	0.51	4.20	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.57	U	0.57	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.93	U	0.93	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.62	U	0.62	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.67	U	0.67	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.67	U	0.67	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.66	U	0.66	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (63) - 130 (155)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	47.9		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		70 (38) - 130 (136)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	281000	7.707			
540-36-3	1,4-Difluorobenzene	508000	8.616			
3114-55-4	Chlorobenzene-d5	440000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.1
Sample Wt/Vol:	7.4 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
VY021459.D	1		03/07/25 14:28	VY030725

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	5.92 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
VY021460.D	1		03/07/25 14:52	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.10	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.10	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.10	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.93	U	0.93	5.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.80	U	0.80	5.10	ug/Kg
67-64-1	Acetone	9.00	J	6.40	25.6	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	5.10	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.10	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.64	U	0.64	5.10	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	5.10	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	25.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	5.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	5.10	ug/Kg
74-97-5	Bromochloromethane	2.50	U	2.50	5.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	5.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	5.10	ug/Kg
108-87-2	Methylcyclohexane	0.89	U	0.89	5.10	ug/Kg
71-43-2	Benzene	0.74	U	0.74	5.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	5.10	ug/Kg
79-01-6	Trichloroethene	0.77	U	0.77	5.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.67	U	0.67	5.10	ug/Kg
75-27-4	Bromodichloromethane	0.57	U	0.57	5.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.6	ug/Kg
108-88-3	Toluene	0.69	U	0.69	5.10	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	5.92 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
VY021460.D	1		03/07/25 14:52	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	5.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	5.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	5.10	ug/Kg
591-78-6	2-Hexanone	4.90	U	4.90	25.6	ug/Kg
124-48-1	Dibromochloromethane	0.66	U	0.66	5.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	5.10	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	5.10	ug/Kg
108-90-7	Chlorobenzene	0.76	U	0.76	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.2	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	5.10	ug/Kg
100-42-5	Styrene	0.61	U	0.61	5.10	ug/Kg
75-25-2	Bromoform	0.83	U	0.83	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	5.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.76	U	0.76	5.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.82	U	0.82	5.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.60	U	0.60	5.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.81	U	0.81	5.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.80	U	0.80	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (63) - 130 (155)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.0	*	70 (38) - 130 (136)	66%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	7.707			
540-36-3	1,4-Difluorobenzene	479000	8.616			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	5.92 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
VY021460.D	1		03/07/25 14:52	VY030725

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.1
Sample Wt/Vol:	6.22 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
VY021461.D	1		03/07/25 15:15	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.76	U	0.76	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.90	U	0.90	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	5.00	ug/Kg
67-64-1	Acetone	150		6.20	24.8	ug/Kg
75-15-0	Carbon Disulfide	1.30	J	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	4.30	J	3.40	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.83	U	0.83	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	5.00	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	5.00	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	24.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.60	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	5.00	ug/Kg
71-43-2	Benzene	0.71	U	0.71	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.60	U	0.60	5.00	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.30	U	4.30	24.8	ug/Kg
108-88-3	Toluene	0.66	U	0.66	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.1
Sample Wt/Vol:	6.22 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
VY021461.D	1		03/07/25 15:15	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.83	U	0.83	5.00	ug/Kg
591-78-6	2-Hexanone	4.70	U	4.70	24.8	ug/Kg
124-48-1	Dibromochloromethane	0.64	U	0.64	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.88	U	0.88	5.00	ug/Kg
108-90-7	Chlorobenzene	0.73	U	0.73	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.90	ug/Kg
95-47-6	o-Xylene	0.69	U	0.69	5.00	ug/Kg
100-42-5	Styrene	0.59	U	0.59	5.00	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.66	U	0.66	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.73	U	0.73	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.79	U	0.79	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.58	U	0.58	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.77	U	0.77	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		70 (63) - 130 (155)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	44.3		70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	26.3	*	70 (38) - 130 (136)	53%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	263000	7.707			
540-36-3	1,4-Difluorobenzene	451000	8.616			
3114-55-4	Chlorobenzene-d5	302000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	63200	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.1
Sample Wt/Vol:	6.22 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
VY021461.D	1		03/07/25 15:15	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
75-65-0	Tert butyl alcohol	140	J		4.85	ug/Kg
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	21.6	J		13.9	ug/Kg

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045150.D	1		03/05/25 18:15	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	9.00		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	2.70		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045150.D	1		03/05/25 18:15	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72600	5.544			
540-36-3	1,4-Difluorobenzene	144000	6.757			
3114-55-4	Chlorobenzene-d5	133000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57700	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045150.D	1		03/05/25 18:15	VX030525

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
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045151.D	1		03/05/25 18:38	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	830	E	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.39	J	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.31	J	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045151.D	1		03/05/25 18:38	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79400	5.543			
540-36-3	1,4-Difluorobenzene	156000	6.757			
3114-55-4	Chlorobenzene-d5	142000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	59800	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045151.D	1		03/05/25 18:38	VX030525

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01DL	SDG No.:	Q1488
Lab Sample ID:	Q1488-14DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045161.D	4		03/06/25 12:23	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.84	UD	0.84	4.00	ug/L
74-87-3	Chloromethane	1.40	UD	1.40	4.00	ug/L
75-01-4	Vinyl Chloride	1.40	UD	1.40	4.00	ug/L
74-83-9	Bromomethane	5.40	UD	5.40	20.0	ug/L
75-00-3	Chloroethane	2.20	UD	2.20	4.00	ug/L
75-69-4	Trichlorofluoromethane	1.40	UD	1.40	4.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	UD	1.00	4.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	UD	1.00	4.00	ug/L
67-64-1	Acetone	1000	D	5.60	20.0	ug/L
75-15-0	Carbon Disulfide	1.30	UD	1.30	4.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.64	UD	0.64	4.00	ug/L
79-20-9	Methyl Acetate	2.40	UD	2.40	4.00	ug/L
75-09-2	Methylene Chloride	1.30	UD	1.30	4.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	UD	1.00	4.00	ug/L
75-34-3	1,1-Dichloroethane	0.92	UD	0.92	4.00	ug/L
110-82-7	Cyclohexane	6.50	UD	6.50	20.0	ug/L
78-93-3	2-Butanone	5.20	UD	5.20	20.0	ug/L
56-23-5	Carbon Tetrachloride	1.00	UD	1.00	4.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	UD	1.00	4.00	ug/L
74-97-5	Bromochloromethane	0.72	UD	0.72	4.00	ug/L
67-66-3	Chloroform	1.00	UD	1.00	4.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.76	UD	0.76	4.00	ug/L
108-87-2	Methylcyclohexane	0.76	UD	0.76	4.00	ug/L
71-43-2	Benzene	0.64	UD	0.64	4.00	ug/L
107-06-2	1,2-Dichloroethane	0.96	UD	0.96	4.00	ug/L
79-01-6	Trichloroethene	1.30	UD	1.30	4.00	ug/L
78-87-5	1,2-Dichloropropane	0.76	UD	0.76	4.00	ug/L
75-27-4	Bromodichloromethane	0.96	UD	0.96	4.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	UD	3.00	20.0	ug/L
108-88-3	Toluene	0.72	UD	0.72	4.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01DL	SDG No.:	Q1488
Lab Sample ID:	Q1488-14DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045161.D	4		03/06/25 12:23	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.84	UD	0.84	4.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.72	UD	0.72	4.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.84	UD	0.84	4.00	ug/L
591-78-6	2-Hexanone	4.50	UD	4.50	20.0	ug/L
124-48-1	Dibromochloromethane	0.72	UD	0.72	4.00	ug/L
106-93-4	1,2-Dibromoethane	0.64	UD	0.64	4.00	ug/L
127-18-4	Tetrachloroethene	1.00	UD	1.00	4.00	ug/L
108-90-7	Chlorobenzene	0.52	UD	0.52	4.00	ug/L
100-41-4	Ethyl Benzene	0.64	UD	0.64	4.00	ug/L
179601-23-1	m/p-Xylenes	1.20	UD	1.20	8.00	ug/L
95-47-6	o-Xylene	0.56	UD	0.56	4.00	ug/L
100-42-5	Styrene	0.64	UD	0.64	4.00	ug/L
75-25-2	Bromoform	0.84	UD	0.84	4.00	ug/L
98-82-8	Isopropylbenzene	0.52	UD	0.52	4.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.10	UD	1.10	4.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.96	UD	0.96	4.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.10	UD	1.10	4.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.76	UD	0.76	4.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	UD	1.80	4.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.70	UD	1.70	4.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	2.00	UD	2.00	4.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	70200	5.55			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	125000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48200	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01DL	SDG No.:	Q1488
Lab Sample ID:	Q1488-14DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045161.D	4		03/06/25 12:23	VX030625

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	TB03042025	SDG No.:	Q1488
Lab Sample ID:	Q1488-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045149.D	1		03/05/25 17:52	VX030525

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	TB03042025	SDG No.:	Q1488
Lab Sample ID:	Q1488-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045149.D	1		03/05/25 17:52	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.4		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72800	5.544			
540-36-3	1,4-Difluorobenzene	144000	6.757			
3114-55-4	Chlorobenzene-d5	130000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50900	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	TB03042025	SDG No.:	Q1488
Lab Sample ID:	Q1488-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045149.D	1		03/05/25 17:52	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1488-01	ENV-101-SB01	1,2-Dichloroethane-d4	50	65.1	130		70 (63)	130 (155)
		Dibromofluoromethane	50	52.5	105		70 (70)	130 (134)
		Toluene-d8	50	48.8	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	45.9	92		70 (38)	130 (136)
Q1488-03	ENV-101-SB02	1,2-Dichloroethane-d4	50	60.7	121		70 (63)	130 (155)
		Dibromofluoromethane	50	51.7	103		70 (70)	130 (134)
		Toluene-d8	50	48.8	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	42.8	86		70 (38)	130 (136)
Q1488-05	ENV-102-SB01	1,2-Dichloroethane-d4	50	64.0	128		70 (63)	130 (155)
		Dibromofluoromethane	50	52.7	105		70 (70)	130 (134)
		Toluene-d8	50	49.2	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.3	93		70 (38)	130 (136)
Q1488-07	ENV-102-SB02	1,2-Dichloroethane-d4	50	56.9	114		70 (63)	130 (155)
		Dibromofluoromethane	50	50.5	101		70 (70)	130 (134)
		Toluene-d8	50	47.9	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	42.0	84		70 (38)	130 (136)
Q1488-09	ENV-104-SB01	1,2-Dichloroethane-d4	50	55.9	112		70 (63)	130 (155)
		Dibromofluoromethane	50	52.3	105		70 (70)	130 (134)
		Toluene-d8	50	48.5	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	33.0	66	*	70 (38)	130 (136)
Q1488-11	ENV-104-SB02	1,2-Dichloroethane-d4	50	55.2	110		70 (63)	130 (155)
		Dibromofluoromethane	50	52.2	104		70 (70)	130 (134)
		Toluene-d8	50	44.3	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	26.3	53	*	70 (38)	130 (136)
VY0306SBL01	VY0306SBL01	1,2-Dichloroethane-d4	50	58.5	117		70 (63)	130 (155)
		Dibromofluoromethane	50	51.1	102		70 (70)	130 (134)
		Toluene-d8	50	48.6	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	43.6	87		70 (38)	130 (136)
VY0306SBS01	VY0306SBS01	1,2-Dichloroethane-d4	50	53.2	106		70 (63)	130 (155)
		Dibromofluoromethane	50	50.1	100		70 (70)	130 (134)
		Toluene-d8	50	49.5	99		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.8	102		70 (38)	130 (136)
VY0306SBSD01	VY0306SBSD01	1,2-Dichloroethane-d4	50	55.0	110		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	51.4	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.6	105		70 (38)	130 (136)
VY0307SBL01	VY0307SBL01	1,2-Dichloroethane-d4	50	55.4	111		70 (63)	130 (155)
		Dibromofluoromethane	50	50.2	100		70 (70)	130 (134)
		Toluene-d8	50	48.5	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.1	80		70 (38)	130 (136)
VY0307SBS01	VY0307SBS01	1,2-Dichloroethane-d4	50	53.1	106		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	51.9	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.9	102		70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1488-13	ENV-102-GW01	1,2-Dichloroethane-d4	50	53.0	106	70 (74)	130 (125)
		Dibromofluoromethane	50	51.2	102	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.3	109	70 (77)	130 (121)
Q1488-14	ENV-104-GW01	1,2-Dichloroethane-d4	50	51.8	104	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	70 (77)	130 (121)
Q1488-14DL	ENV-104-GW01DL	1,2-Dichloroethane-d4	50	52.0	104	70 (74)	130 (125)
		Dibromofluoromethane	50	53.1	106	70 (75)	130 (124)
		Toluene-d8	50	53.4	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104	70 (77)	130 (121)
Q1488-15	TB03042025	1,2-Dichloroethane-d4	50	53.4	107	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	51.4	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VX0305WBL01	VX0305WBL01	1,2-Dichloroethane-d4	50	52.7	105	70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.5	103	70 (77)	130 (121)
VX0305WBS01	VX0305WBS01	1,2-Dichloroethane-d4	50	48.4	97	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.5	99	70 (77)	130 (121)
VX0305WBSD0	VX0305WBSD01	1,2-Dichloroethane-d4	50	49.3	99	70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.2	102	70 (77)	130 (121)
VX0306WBL01	VX0306WBL01	1,2-Dichloroethane-d4	50	53.9	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104	70 (77)	130 (121)
VX0306WBS01	VX0306WBS01	1,2-Dichloroethane-d4	50	50.2	100	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.3	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045130.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0305WBS01	Dichlorodifluoromethane	20	17.3	ug/L	86			40 (69)	160 (116)	
	Chloromethane	20	17.2	ug/L	86			40 (65)	160 (116)	
	Vinyl chloride	20	16.6	ug/L	83			70 (65)	130 (117)	
	Bromomethane	20	17.0	ug/L	85			40 (58)	160 (125)	
	Chloroethane	20	15.5	ug/L	78			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.1	ug/L	91			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.1	ug/L	96			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.5	ug/L	88			70 (74)	130 (110)	
	Acetone	100	83.6	ug/L	84			40 (60)	160 (125)	
	Carbon disulfide	20	16.0	ug/L	80			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.2	ug/L	86			70 (78)	130 (114)	
	Methyl Acetate	20	18.4	ug/L	92			70 (67)	130 (125)	
	Methylene Chloride	20	17.2	ug/L	86			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.2	ug/L	91			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.5	ug/L	88			70 (78)	130 (112)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	88.4	ug/L	88			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.0	ug/L	90			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			70 (77)	130 (110)	
	Bromochloromethane	20	21.1	ug/L	106			70 (70)	130 (124)	
	Chloroform	20	17.6	ug/L	88			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.8	ug/L	89			70 (80)	130 (108)	
	Methylcyclohexane	20	19.1	ug/L	96			70 (72)	130 (115)	
	Benzene	20	18.2	ug/L	91			70 (82)	130 (109)	
	1,2-Dichloroethane	20	17.8	ug/L	89			70 (80)	130 (115)	
	Trichloroethene	20	17.5	ug/L	88			70 (77)	130 (113)	
	1,2-Dichloropropane	20	17.5	ug/L	88			70 (83)	130 (111)	
	Bromodichloromethane	20	17.8	ug/L	89			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	89.5	ug/L	90			40 (74)	160 (118)	
	Toluene	20	18.4	ug/L	92			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.3	ug/L	92			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	17.8	ug/L	89			70 (83)	130 (112)	
	2-Hexanone	100	89.1	ug/L	89			40 (73)	160 (117)	
	Dibromochloromethane	20	17.1	ug/L	86			70 (82)	130 (110)	
	1,2-Dibromoethane	20	17.9	ug/L	90			70 (81)	130 (110)	
	Tetrachloroethene	20	18.5	ug/L	93			70 (67)	130 (123)	
	Chlorobenzene	20	18.5	ug/L	93			70 (82)	130 (109)	
	Ethyl Benzene	20	18.5	ug/L	93			70 (83)	130 (109)	
	m/p-Xylenes	40	38.3	ug/L	96			70 (82)	130 (110)	
	o-Xylene	20	18.5	ug/L	93			70 (83)	130 (109)	
	Styrene	20	18.4	ug/L	92			70 (80)	130 (111)	
	Bromoform	20	17.5	ug/L	88			70 (79)	130 (109)	
	Isopropylbenzene	20	18.5	ug/L	93			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.5	ug/L	88			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.4	ug/L	92			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.2	ug/L	91			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045130.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0305WBS01	1,2-Dibromo-3-Chloropropane	20	16.8	ug/L	84			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.0	ug/L	90			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.7	ug/L	94			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045135.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0305WBSD01	Dichlorodifluoromethane	20	19.4	ug/L	97	12		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.1	ug/L	96	11		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.1	ug/L	91	9		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.8	ug/L	89	5		40 (58)	160 (125)	20 (20)
	Chloroethane	20	16.0	ug/L	80	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	18.6	ug/L	93	2		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.3	ug/L	102	6		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.1	ug/L	96	9		70 (74)	130 (110)	20 (20)
	Acetone	100	92.8	ug/L	93	10		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	15.9	ug/L	79	1		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.3	ug/L	97	12		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	20.6	ug/L	103	11		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.1	ug/L	96	11		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	9		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.6	ug/L	98	11		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.9	ug/L	100	7		70 (75)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	13		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.1	ug/L	91	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	11		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.2	ug/L	111	5		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.3	ug/L	97	10		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.0	ug/L	95	7		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.1	ug/L	106	10		70 (72)	130 (115)	20 (20)
	Benzene	20	19.8	ug/L	99	8		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.6	ug/L	98	10		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.5	ug/L	93	6		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.4	ug/L	97	10		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	18.6	ug/L	93	4		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	100	ug/L	100	11		40 (74)	160 (118)	20 (20)
	Toluene	20	20.7	ug/L	104	12		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	18.9	ug/L	95	7		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	6		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	19.9	ug/L	100	12		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	12		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	18.5	ug/L	93	8		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	19.0	ug/L	95	5		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.8	ug/L	99	6		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.5	ug/L	98	5		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	20.0	ug/L	100	7		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	41.6	ug/L	104	8		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.9	ug/L	100	7		70 (83)	130 (109)	20 (20)
	Styrene	20	20.1	ug/L	101	9		70 (80)	130 (111)	20 (20)
	Bromoform	20	17.2	ug/L	86	2		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.2	ug/L	101	8		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	11		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.3	ug/L	102	10		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.7	ug/L	99	8		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.2	ug/L	101	10		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045135.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0305WBSD01	1,2-Dibromo-3-Chloropropane	20	18.4	ug/L	92	9		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/L	100	11		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.1	ug/L	101	7		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0306WBS01	Dichlorodifluoromethane	20	20.7	ug/L	104			40 (69)	160 (116)	
	Chloromethane	20	19.1	ug/L	96			40 (65)	160 (116)	
	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	Bromomethane	20	18.9	ug/L	95			40 (58)	160 (125)	
	Chloroethane	20	17.4	ug/L	87			40 (56)	160 (128)	
	Trichlorofluoromethane	20	21.0	ug/L	105			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	23.0	ug/L	115			70 (80)	130 (112)	
	1,1-Dichloroethene	20	21.3	ug/L	106			70 (74)	130 (110)	
	Acetone	100	98.2	ug/L	98			40 (60)	160 (125)	
	Carbon disulfide	20	17.8	ug/L	89			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			70 (78)	130 (114)	
	Methyl Acetate	20	22.5	ug/L	113			70 (67)	130 (125)	
	Methylene Chloride	20	20.1	ug/L	101			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	22.0	ug/L	110			70 (75)	130 (108)	
	1,1-Dichloroethane	20	21.0	ug/L	105			70 (78)	130 (112)	
	Cyclohexane	20	22.1	ug/L	111			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.5	ug/L	103			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	21.2	ug/L	106			70 (77)	130 (110)	
	Bromochloromethane	20	18.1	ug/L	91			70 (70)	130 (124)	
	Chloroform	20	21.2	ug/L	106			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.1	ug/L	106			70 (80)	130 (108)	
	Methylcyclohexane	20	22.9	ug/L	115			70 (72)	130 (115)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.8	ug/L	104			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.0	ug/L	105			70 (83)	130 (111)	
	Bromodichloromethane	20	20.8	ug/L	104			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	21.8	ug/L	109			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	21.2	ug/L	106			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.2	ug/L	101			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.3	ug/L	102			70 (81)	130 (110)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.6	ug/L	108			70 (82)	130 (109)	
	Ethyl Benzene	20	21.7	ug/L	109			70 (83)	130 (109)	
	m/p-Xylenes	40	44.0	ug/L	110			70 (82)	130 (110)	
	o-Xylene	20	21.5	ug/L	108			70 (83)	130 (109)	
	Styrene	20	21.7	ug/L	109			70 (80)	130 (111)	
	Bromoform	20	19.4	ug/L	97			70 (79)	130 (109)	
	Isopropylbenzene	20	21.3	ug/L	106			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.8	ug/L	104			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.7	ug/L	104			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.1	ug/L	106			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0306WBS01	1,2-Dibromo-3-Chloropropane	20	20.4	ug/L	102			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	21.2	ug/L	106			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	21.6	ug/L	108			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0306SBS01	Dichlorodifluoromethane	20	18.0	ug/Kg	90			40 (64)	160 (136)	
	Chloromethane	20	20.3	ug/Kg	102			40 (70)	160 (130)	
	Vinyl chloride	20	20.0	ug/Kg	100			70 (72)	130 (129)	
	Bromomethane	20	21.8	ug/Kg	109			40 (58)	160 (141)	
	Chloroethane	20	21.0	ug/Kg	105			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/Kg	100			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.1	ug/Kg	96			70 (79)	130 (121)	
	Acetone	100	79.7	ug/Kg	80			40 (60)	160 (131)	
	Carbon disulfide	20	18.7	ug/Kg	94			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.0	ug/Kg	100			70 (77)	130 (129)	
	Methyl Acetate	20	20.6	ug/Kg	103			70 (69)	130 (149)	
	Methylene Chloride	20	19.3	ug/Kg	97			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.1	ug/Kg	96			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	Cyclohexane	20	18.5	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	93.5	ug/Kg	94			40 (69)	160 (131)	
	Carbon Tetrachloride	20	18.5	ug/Kg	93			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	20.7	ug/Kg	104			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	17.7	ug/Kg	89			70 (77)	130 (123)	
	Benzene	20	19.4	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.2	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	18.8	ug/Kg	94			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	Bromodichloromethane	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.2	ug/Kg	96			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	2-Hexanone	100	98.1	ug/Kg	98			40 (66)	160 (138)	
	Dibromochloromethane	20	20.0	ug/Kg	100			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	18.3	ug/Kg	92			70 (83)	130 (125)	
	Chlorobenzene	20	18.6	ug/Kg	93			70 (84)	130 (122)	
	Ethyl Benzene	20	17.8	ug/Kg	89			70 (82)	130 (124)	
	m/p-Xylenes	40	36.6	ug/Kg	92			70 (83)	130 (124)	
	o-Xylene	20	18.2	ug/Kg	91			70 (83)	130 (123)	
	Styrene	20	18.6	ug/Kg	93			70 (82)	130 (124)	
	Bromoform	20	18.8	ug/Kg	94			70 (75)	130 (127)	
	Isopropylbenzene	20	17.1	ug/Kg	86			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	17.7	ug/Kg	89			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.0	ug/Kg	90			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.2	ug/Kg	91			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0306SBS01	1,2-Dibromo-3-Chloropropane	20	19.4	ug/Kg	97			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.3	ug/Kg	86			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.4	ug/Kg	87			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021429.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0306SBSD01	Dichlorodifluoromethane	20	19.7	ug/Kg	99	10		40 (64)	160 (136)	30 (20)
	Chloromethane	20	20.8	ug/Kg	104	2		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	21.0	ug/Kg	105	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.9	ug/Kg	104	5		40 (58)	160 (141)	30 (20)
	Chloroethane	20	22.2	ug/Kg	111	6		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	20.8	ug/Kg	104	4		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.1	ug/Kg	101	5		70 (79)	130 (121)	30 (20)
	Acetone	100	83.1	ug/Kg	83	4		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.5	ug/Kg	98	4		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.3	ug/Kg	106	3		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.4	ug/Kg	102	5		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101	5		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.5	ug/Kg	103	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.8	ug/Kg	94	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	95.3	ug/Kg	95	1		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	18.7	ug/Kg	94	1		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.2	ug/Kg	101	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.2	ug/Kg	96	8		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.3	ug/Kg	106	5		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	18.2	ug/Kg	91	2		70 (77)	130 (123)	30 (20)
	Benzene	20	19.9	ug/Kg	100	3		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.4	ug/Kg	102	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.0	ug/Kg	95	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.5	ug/Kg	103	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.2	ug/Kg	101	2		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		40 (70)	160 (135)	30 (20)
	Toluene	20	19.7	ug/Kg	99	3		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102	2		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	96.5	ug/Kg	97	1		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	19.9	ug/Kg	100	0		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.0	ug/Kg	100	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	18.8	ug/Kg	94	2		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.2	ug/Kg	96	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	18.6	ug/Kg	93	4		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	37.8	ug/Kg	95	3		70 (83)	130 (124)	30 (20)
	o-Xylene	20	18.8	ug/Kg	94	3		70 (83)	130 (123)	30 (20)
	Styrene	20	19.5	ug/Kg	98	5		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.6	ug/Kg	98	4		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	18.2	ug/Kg	91	6		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.0	ug/Kg	95	1		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	18.5	ug/Kg	93	4		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.0	ug/Kg	95	5		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.2	ug/Kg	96	5		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021429.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0306SBSD01	1,2-Dibromo-3-Chloropropane	20	19.1	ug/Kg	96	1		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	18.7	ug/Kg	94	9		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94	8		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021453.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0307SBS01	Dichlorodifluoromethane	20	19.5	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	20.2	ug/Kg	101			40 (70)	160 (130)	
	Vinyl chloride	20	20.7	ug/Kg	104			70 (72)	130 (129)	
	Bromomethane	20	20.6	ug/Kg	103			40 (58)	160 (141)	
	Chloroethane	20	21.5	ug/Kg	108			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.9	ug/Kg	110			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/Kg	100			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.4	ug/Kg	97			70 (79)	130 (121)	
	Acetone	100	120	ug/Kg	120			40 (60)	160 (131)	
	Carbon disulfide	20	18.9	ug/Kg	95			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.4	ug/Kg	97			70 (77)	130 (129)	
	Methyl Acetate	20	20.5	ug/Kg	103			70 (69)	130 (149)	
	Methylene Chloride	20	20.6	ug/Kg	103			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.4	ug/Kg	97			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (82)	130 (123)	
	Bromochloromethane	20	19.2	ug/Kg	96			70 (80)	130 (127)	
	Chloroform	20	19.9	ug/Kg	100			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99			70 (80)	130 (126)	
	Methylcyclohexane	20	18.8	ug/Kg	94			70 (77)	130 (123)	
	Benzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.8	ug/Kg	99			70 (81)	130 (126)	
	Trichloroethene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	Bromodichloromethane	20	19.6	ug/Kg	98			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	19.4	ug/Kg	97			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.6	ug/Kg	98			70 (83)	130 (125)	
	Chlorobenzene	20	19.0	ug/Kg	95			70 (84)	130 (122)	
	Ethyl Benzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	m/p-Xylenes	40	38.9	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.1	ug/Kg	96			70 (83)	130 (123)	
	Styrene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	20.1	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	18.9	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/Kg	98			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	18.8	ug/Kg	94			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.0	ug/Kg	95			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021453.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0307SBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.0	ug/Kg	90			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.1	ug/Kg	91			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0305WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045129.D Lab Sample ID: VX0305WBL01

Date Analyzed: 03/05/2025 Time Analyzed: 10:03

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
VX0305WBS01	VX0305WBS01	VX045130.D	03/05/2025
VX0305WBSD01	VX0305WBSD01	VX045135.D	03/05/2025
TB03042025	Q1488-15	VX045149.D	03/05/2025
ENV-102-GW01	Q1488-13	VX045150.D	03/05/2025
ENV-104-GW01	Q1488-14	VX045151.D	03/05/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0306WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045157.D Lab Sample ID: VX0306WBL01

Date Analyzed: 03/06/2025 Time Analyzed: 10:46

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
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025
ENV-104-GW01DL	Q1488-14DL	VX045161.D	03/06/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0306SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021427.D Lab Sample ID: VY0306SBL01

Date Analyzed: 03/06/2025 Time Analyzed: 11:59

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
VY0306SBS01	VY0306SBS01	VY021428.D	03/06/2025
VY0306SBSD01	VY0306SBSD01	VY021429.D	03/06/2025
ENV-101-SB01	Q1488-01	VY021435.D	03/06/2025
ENV-101-SB02	Q1488-03	VY021436.D	03/06/2025
ENV-102-SB01	Q1488-05	VY021437.D	03/06/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0307SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021452.D Lab Sample ID: VY0307SBL01

Date Analyzed: 03/07/2025 Time Analyzed: 10:35

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0307SBS01	VY0307SBS01	VY021453.D	03/07/2025
ENV-102-SB02	Q1488-07	VY021459.D	03/07/2025
ENV-104-SB01	Q1488-09	VY021460.D	03/07/2025
ENV-104-SB02	Q1488-11	VY021461.D	03/07/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045067.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_X BFB Injection Time: 01:03

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	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045068.D	02/28/2025	01:27
VSTDICC005	VSTDICC005	VX045069.D	02/28/2025	02:13
VSTDICC020	VSTDICC020	VX045070.D	02/28/2025	02:37
VSTDICCC050	VSTDICCC050	VX045071.D	02/28/2025	03:00
VSTDICC100	VSTDICC100	VX045072.D	02/28/2025	03:23
VSTDICC150	VSTDICC150	VX045073.D	02/28/2025	03:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045126.D BFB Injection Date: 03/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:40

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	21
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	77
175	5.0 - 9.0% of mass 174	5.1 (6.7) 1
176	95.0 - 101.0% of mass 174	73.3 (95.1) 1
177	5.0 - 9.0% of mass 176	5 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045127.D	03/05/2025	09:12
VX0305WBL01	VX0305WBL01	VX045129.D	03/05/2025	10:03
VX0305WBS01	VX0305WBS01	VX045130.D	03/05/2025	10:26
VX0305WBSD01	VX0305WBSD01	VX045135.D	03/05/2025	12:26
TB03042025	Q1488-15	VX045149.D	03/05/2025	17:52
ENV-102-GW01	Q1488-13	VX045150.D	03/05/2025	18:15
ENV-104-GW01	Q1488-14	VX045151.D	03/05/2025	18:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045154.D BFB Injection Date: 03/06/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:09

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	67.9 (96.1) 1
177	5.0 - 9.0% of mass 176	4.5 (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	VX045155.D	03/06/2025	09:56
VX0306WBL01	VX0306WBL01	VX045157.D	03/06/2025	10:46
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025	11:10
ENV-104-GW01DL	Q1488-14DL	VX045161.D	03/06/2025	12:23

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021395.D BFB Injection Date: 03/04/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:52

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	20.6
75	30.0 - 60.0% of mass 95	54.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	77.8
175	5.0 - 9.0% of mass 174	6.6 (8.4) 1
176	95.0 - 101.0% of mass 174	75.7 (97.2) 1
177	5.0 - 9.0% of mass 176	5 (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
VSTDICC010	VSTDICC010	VY021397.D	03/04/2025	09:46
VSTDICC020	VSTDICC020	VY021398.D	03/04/2025	10:09
VSTDICCC050	VSTDICCC050	VY021399.D	03/04/2025	10:30
VSTDICC100	VSTDICC100	VY021400.D	03/04/2025	11:06
VSTDICC150	VSTDICC150	VY021401.D	03/04/2025	11:29
VSTDICC005	VSTDICC005	VY021403.D	03/04/2025	12:15

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021425.D BFB Injection Date: 03/06/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:39

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	82.3
175	5.0 - 9.0% of mass 174	6.2 (7.5) 1
176	95.0 - 101.0% of mass 174	79.6 (96.8) 1
177	5.0 - 9.0% of mass 176	5.7 (7.1) 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	VY021426.D	03/06/2025	10:10
VY0306SBL01	VY0306SBL01	VY021427.D	03/06/2025	11:59
VY0306SBS01	VY0306SBS01	VY021428.D	03/06/2025	12:33
VY0306SBSD01	VY0306SBSD01	VY021429.D	03/06/2025	12:55
ENV-101-SB01	Q1488-01	VY021435.D	03/06/2025	15:25
ENV-101-SB02	Q1488-03	VY021436.D	03/06/2025	15:49
ENV-102-SB01	Q1488-05	VY021437.D	03/06/2025	16:12

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021450.D BFB Injection Date: 03/07/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:27

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	20.7
75	30.0 - 60.0% of mass 95	53.8
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	1.3 (1.6) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.7 (8.1) 1
176	95.0 - 101.0% of mass 174	77.6 (95) 1
177	5.0 - 9.0% of mass 176	5.3 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021451.D	03/07/2025	09:59
VY0307SBL01	VY0307SBL01	VY021452.D	03/07/2025	10:35
VY0307SBS01	VY0307SBS01	VY021453.D	03/07/2025	12:03
ENV-102-SB02	Q1488-07	VY021459.D	03/07/2025	14:28
ENV-104-SB01	Q1488-09	VY021460.D	03/07/2025	14:52
ENV-104-SB02	Q1488-11	VY021461.D	03/07/2025	15:15

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045127.D Date Analyzed: 03/05/2025

Instrument ID: MSVOA_X Time Analyzed: 09:12

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	112291	5.54	190470	6.75	164207	10.05
UPPER LIMIT	224582	6.044	380940	7.251	328414	10.549
LOWER LIMIT	56145.5	5.044	95235	6.251	82103.5	9.549
EPA SAMPLE NO.						
ENV-102-GW01	72598	5.54	143720	6.76	132869	10.05
ENV-104-GW01	79416	5.54	156296	6.76	141923	10.06
TB03042025	72831	5.54	143614	6.76	130232	10.06
VX0305WBL01	68143	5.54	136785	6.76	125445	10.05
VX0305WBS01	98769	5.54	177910	6.76	153160	10.06
VX0305WBSD01	104383	5.55	188951	6.76	167692	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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045127.D Date Analyzed: 03/05/2025

Instrument ID: MSVOA_X Time Analyzed: 09:12

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

	IS4 AREA #	RT #				
12 HOUR STD	74481	12.018				
UPPER LIMIT	148962	12.518				
LOWER LIMIT	37240.5	11.518				
EPA SAMPLE NO.						
ENV-102-GW01	57679	12.02				
ENV-104-GW01	59794	12.02				
TB03042025	50863	12.02				
VX0305WBL01	50961	12.02				
VX0305WBS01	68669	12.02				
VX0305WBSD01	73577	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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	99532	5.54	175834	6.76	153746	10.05
UPPER LIMIT	199064	6.044	351668	7.257	307492	10.549
LOWER LIMIT	49766	5.044	87917	6.257	76873	9.549
EPA SAMPLE NO.						
ENV-104-GW01DL	70228	5.55	133297	6.76	124634	10.05
VX0306WBL01	71177	5.54	139793	6.76	129041	10.05
VX0306WBS01	97102	5.54	175752	6.76	147757	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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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

	IS4 AREA #	RT #				
12 HOUR STD	69403	12.018				
UPPER LIMIT	138806	12.518				
LOWER LIMIT	34701.5	11.518				
EPA SAMPLE NO.						
ENV-104-GW01DL	48192	12.02				
VX0306WBL01	53719	12.02				
VX0306WBS01	67123	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021426.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:10

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	228274	7.71	348529	8.61	321426	11.41
UPPER LIMIT	456548	8.207	697058	9.11	642852	11.914
LOWER LIMIT	114137	7.207	174265	8.11	160713	10.914
EPA SAMPLE NO.						
ENV-101-SB01	242903	7.71	455891	8.62	410551	11.41
ENV-101-SB02	234226	7.71	429130	8.62	377679	11.41
ENV-102-SB01	245112	7.71	450789	8.62	408673	11.41
VY0306SBL01	249443	7.71	460921	8.62	405928	11.42
VY0306SBS01	200172	7.71	318431	8.62	292608	11.42
VY0306SBSD01	197190	7.71	317024	8.62	284896	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021426.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:10

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

	IS4 AREA #	RT #				
12 HOUR STD	168733	13.346				
UPPER LIMIT	337466	13.846				
LOWER LIMIT	84366.5	12.846				
EPA SAMPLE NO.						
ENV-101-SB01	166037	13.35				
ENV-101-SB02	143740	13.35				
ENV-102-SB01	161699	13.35				
VY0306SBL01	156000	13.35				
VY0306SBS01	152176	13.35				
VY0306SBSD01	145541	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021451.D Date Analyzed: 03/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

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	212653	7.71	324643	8.62	291936	11.42
UPPER LIMIT	425306	8.207	649286	9.116	583872	11.92
LOWER LIMIT	106327	7.207	162322	8.116	145968	10.92
EPA SAMPLE NO.						
ENV-102-SB02	280904	7.71	508130	8.62	440256	11.41
ENV-104-SB01	272187	7.71	479219	8.62	375437	11.41
ENV-104-SB02	263229	7.71	450669	8.62	301719	11.41
VY0307SBL01	247432	7.71	455944	8.62	386511	11.42
VY0307SBS01	219868	7.71	343563	8.62	301562	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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VY021451.D Date Analyzed: 03/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

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

	IS4 AREA #		RT #				
12 HOUR STD	151541		13.353				
UPPER LIMIT	303082		13.853				
LOWER LIMIT	75770.5		12.853				
EPA SAMPLE NO.							
ENV-102-SB02	168898		13.35				
ENV-104-SB01	106159		13.35				
ENV-104-SB02	63186	*	13.35				
VY0307SBL01	140975		13.35				
VY0307SBS01	152803		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:	VX0305WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045129.D	1		03/05/25 10:03	VX030525

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045129.D	1		03/05/25 10:03	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	68100	5.544			
540-36-3	1,4-Difluorobenzene	137000	6.757			
3114-55-4	Chlorobenzene-d5	125000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045129.D	1		03/05/25 10:03	VX030525

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:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045157.D	1		03/06/25 10:46	VX030625

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045157.D	1		03/06/25 10:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.544			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53700	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045157.D	1		03/06/25 10:46	VX030625

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:	VY0306SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBL01	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
VY021427.D	1		03/06/25 11:59	VY030625

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0306SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBL01	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
VY021427.D	1		03/06/25 11:59	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.4		70 (63) - 130 (155)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		70 (38) - 130 (136)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	249000	7.707			
540-36-3	1,4-Difluorobenzene	461000	8.616			
3114-55-4	Chlorobenzene-d5	406000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	156000	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:	VY0306SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBL01	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
VY021427.D	1		03/06/25 11:59	VY030625

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:	VY0307SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBL01	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
VY021452.D	1		03/07/25 10:35	VY030725

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0307SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBL01	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
VY021452.D	1		03/07/25 10:35	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (63) - 130 (155)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		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	40.1		70 (38) - 130 (136)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	247000	7.707			
540-36-3	1,4-Difluorobenzene	456000	8.616			
3114-55-4	Chlorobenzene-d5	387000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	141000	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:	VY0307SBL01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBL01	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
VY021452.D	1		03/07/25 10:35	VY030725

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:	VX0305WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045130.D	1		03/05/25 10:26	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.3		0.21	1.00	ug/L
74-87-3	Chloromethane	17.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	16.6		0.34	1.00	ug/L
74-83-9	Bromomethane	17.0		1.40	5.00	ug/L
75-00-3	Chloroethane	15.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.26	1.00	ug/L
67-64-1	Acetone	83.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	88.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.1		0.18	1.00	ug/L
67-66-3	Chloroform	17.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.1		0.19	1.00	ug/L
71-43-2	Benzene	18.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	17.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	89.5		0.75	5.00	ug/L
108-88-3	Toluene	18.4		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045130.D	1		03/05/25 10:26	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.3		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	89.1		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	17.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.5		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.3		0.31	2.00	ug/L
95-47-6	o-Xylene	18.5		0.14	1.00	ug/L
100-42-5	Styrene	18.4		0.16	1.00	ug/L
75-25-2	Bromoform	17.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.2		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.8		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.7		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98800	5.544			
540-36-3	1,4-Difluorobenzene	178000	6.757			
3114-55-4	Chlorobenzene-d5	153000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	68700	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045130.D	1		03/05/25 10:26	VX030525

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:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.7		0.21	1.00	ug/L
74-87-3	Chloromethane	19.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
74-83-9	Bromomethane	18.9		1.40	5.00	ug/L
75-00-3	Chloroethane	17.4		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	23.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.3		0.26	1.00	ug/L
67-64-1	Acetone	98.2		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	22.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	22.1		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.1		0.18	1.00	ug/L
67-66-3	Chloroform	21.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	22.9		0.19	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	21.8		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.2		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.7		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	44.0		0.31	2.00	ug/L
95-47-6	o-Xylene	21.5		0.14	1.00	ug/L
100-42-5	Styrene	21.7		0.16	1.00	ug/L
75-25-2	Bromoform	19.4		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.8		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.4		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97100	5.544			
540-36-3	1,4-Difluorobenzene	176000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67100	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045158.D	1		03/06/25 11:10	VX030625

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:	VY0306SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBS01	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
VY021428.D	1		03/06/25 12:33	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.0		1.70	5.00	ug/Kg
74-87-3	Chloromethane	20.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.0		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.1		0.78	5.00	ug/Kg
67-64-1	Acetone	79.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.0		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.6		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	93.5		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.5		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.7		0.87	5.00	ug/Kg
71-43-2	Benzene	19.4		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.8		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.2		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.2		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0306SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBS01	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
VY021428.D	1		03/06/25 12:33	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.1		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	17.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	36.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.2		0.70	5.00	ug/Kg
100-42-5	Styrene	18.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	18.8		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	17.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.0		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.2		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.4		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (63) - 130 (155)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (74) - 130 (123)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		70 (38) - 130 (136)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	318000	8.616			
3114-55-4	Chlorobenzene-d5	293000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	152000	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:	VY0306SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBS01	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
VY021428.D	1		03/06/25 12:33	VY030625

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:	VY0307SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBS01	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
VY021453.D	1		03/07/25 12:03	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	20.2		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.5		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.9		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.4		0.78	5.00	ug/Kg
67-64-1	Acetone	120		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.9		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.4		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.6		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.8		0.87	5.00	ug/Kg
71-43-2	Benzene	19.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.6		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0307SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBS01	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
VY021453.D	1		03/07/25 12:03	VY030725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.0		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.9		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.1		0.70	5.00	ug/Kg
100-42-5	Styrene	19.3		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.6		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.1		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.0		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		70 (63) - 130 (155)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (38) - 130 (136)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	7.707			
540-36-3	1,4-Difluorobenzene	344000	8.616			
3114-55-4	Chlorobenzene-d5	302000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	153000	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:	VY0307SBS01	SDG No.:	Q1488
Lab Sample ID:	VY0307SBS01	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
VY021453.D	1		03/07/25 12:03	VY030725

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:	VX0305WBSD01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045135.D	1		03/05/25 12:26	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	19.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	1.00	ug/L
74-83-9	Bromomethane	17.8		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.26	1.00	ug/L
67-64-1	Acetone	92.8		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.3		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.6		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.9		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.2		0.18	1.00	ug/L
67-66-3	Chloroform	19.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.1		0.19	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.4		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.7		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBSD01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045135.D	1		03/05/25 12:26	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.9		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.9		0.14	1.00	ug/L
100-42-5	Styrene	20.1		0.16	1.00	ug/L
75-25-2	Bromoform	17.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.2		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	104000	5.55			
540-36-3	1,4-Difluorobenzene	189000	6.757			
3114-55-4	Chlorobenzene-d5	168000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	73600	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0305WBSD01	SDG No.:	Q1488
Lab Sample ID:	VX0305WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045135.D	1		03/05/25 12:26	VX030525

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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0306SBSD01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBSD01	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
VY021429.D	1		03/06/25 12:55	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	20.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.0		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.9		1.00	5.00	ug/Kg
75-00-3	Chloroethane	22.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.1		0.78	5.00	ug/Kg
67-64-1	Acetone	83.1		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.4		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.69	5.00	ug/Kg
78-93-3	2-Butanone	95.3		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.7		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0306SBSD01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBSD01	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
VY021429.D	1		03/06/25 12:55	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.4		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	96.5		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.2		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.0		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.2		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.7		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		70 (63) - 130 (155)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (38) - 130 (136)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	197000	7.707			
540-36-3	1,4-Difluorobenzene	317000	8.616			
3114-55-4	Chlorobenzene-d5	285000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0306SBSD01	SDG No.:	Q1488
Lab Sample ID:	VY0306SBSD01	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
VY021429.D	1		03/06/25 12:55	VY030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.4
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5
Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.6
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5
Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.3
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2
Bromochloromethane	0.557	0.633	0.613	0.603	0.563	0.596	0.594	5
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9
1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.7
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5
1,2-Dibromo-3-Chloropropane	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.6
1,2,4-Trichlorobenzene	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.3
1,2,3-Trichlorobenzene	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.2
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7

* 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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID: RRF010 = VY021397.D RRF020 = VY021398.D RRF050 = VY021399.D
RRF100 = VY021400.D RRF150 = VY021401.D RRF005 = VY021403.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.493	0.416	0.447	0.440	0.429	0.529	0.459	9.4
Chloromethane	0.694	0.588	0.617	0.608	0.580	0.793	0.647	12.7
Vinyl Chloride	0.762	0.639	0.691	0.706	0.665	0.778	0.707	7.7
Bromomethane	0.555	0.450	0.468	0.483	0.468	0.641	0.511	14.4
Chloroethane	0.505	0.427	0.460	0.458	0.432	0.521	0.467	8.2
Trichlorofluoromethane	1.050	0.896	0.967	0.963	0.935	1.109	0.987	8
1,1,2-Trichlorotrifluoroethane	0.600	0.507	0.538	0.542	0.525	0.668	0.563	10.7
1,1-Dichloroethene	0.542	0.460	0.506	0.512	0.494	0.566	0.514	7.2
Acetone	0.124	0.091	0.134	0.103	0.095	0.144	0.115	18.9
Carbon Disulfide	1.705	1.425	1.631	1.618	1.546	1.732	1.610	7
Methyl tert-butyl Ether	1.290	1.177	1.366	1.299	1.315	1.364	1.302	5.3
Methyl Acetate	0.253	0.227	0.284	0.245	0.257	0.268	0.256	7.6
Methylene Chloride	0.717	0.538	0.552	0.530	0.507	0.788	0.605	19.4
trans-1,2-Dichloroethene	0.608	0.516	0.564	0.570	0.545	0.648	0.575	8.1
1,1-Dichloroethane	1.124	0.955	1.050	1.035	0.991	1.179	1.056	7.9
Cyclohexane	1.039	0.885	0.941	0.943	0.914	1.216	0.990	12.4
2-Butanone	0.160	0.136	0.181	0.149	0.151	0.180	0.159	11.2
Carbon Tetrachloride	0.627	0.538	0.587	0.595	0.579	0.625	0.592	5.6
cis-1,2-Dichloroethene	0.675	0.592	0.654	0.658	0.639	0.702	0.653	5.6
Bromochloromethane	0.481	0.423	0.467	0.426	0.380	0.478	0.443	9
Chloroform	1.181	0.992	1.087	1.066	1.029	1.222	1.096	8.1
1,1,1-Trichloroethane	1.063	0.894	0.978	0.983	0.953	1.151	1.004	9
Methylcyclohexane	0.595	0.550	0.651	0.680	0.669	0.641	0.631	7.8
Benzene	1.554	1.366	1.542	1.540	1.473	1.618	1.515	5.7
1,2-Dichloroethane	0.446	0.386	0.436	0.414	0.408	0.453	0.424	6.1
Trichloroethene	0.390	0.349	0.381	0.384	0.378	0.415	0.383	5.5
1,2-Dichloropropane	0.371	0.333	0.368	0.358	0.347	0.388	0.361	5.3
Bromodichloromethane	0.550	0.485	0.548	0.535	0.521	0.559	0.533	5
4-Methyl-2-Pentanone	0.210	0.202	0.263	0.230	0.243	0.219	0.228	9.9
Toluene	0.952	0.853	0.988	0.997	0.958	0.983	0.955	5.6

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID: RRF010 = VY021397.D RRF020 = VY021398.D RRF050 = VY021399.D
RRF100 = VY021400.D RRF150 = VY021401.D RRF005 = VY021403.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.447	0.420	0.499	0.495	0.495	0.461	0.470	6.8
cis-1,3-Dichloropropene	0.544	0.498	0.587	0.579	0.566	0.570	0.557	5.8
1,1,2-Trichloroethane	0.264	0.237	0.283	0.259	0.257	0.274	0.263	6
2-Hexanone	0.135	0.129	0.182	0.156	0.163	0.139	0.151	13.1
Dibromochloromethane	0.358	0.327	0.376	0.363	0.361	0.374	0.360	4.9
1,2-Dibromoethane	0.246	0.226	0.262	0.248	0.247	0.258	0.248	5.1
Tetrachloroethene	0.418	0.370	0.403	0.407	0.393	0.449	0.407	6.5
Chlorobenzene	1.194	1.065	1.186	1.192	1.165	1.283	1.181	5.9
Ethyl Benzene	2.005	1.825	2.135	2.209	2.146	2.115	2.072	6.7
m/p-Xylenes	0.761	0.705	0.822	0.833	0.803	0.797	0.787	6
o-Xylene	0.700	0.635	0.759	0.779	0.754	0.723	0.725	7.2
Styrene	1.133	1.084	1.277	1.306	1.267	1.151	1.203	7.6
Bromoform	0.227	0.213	0.250	0.237	0.238	0.235	0.233	5.3
Isopropylbenzene	3.797	3.468	4.034	4.231	4.124	3.977	3.939	6.9
1,1,2,2-Tetrachloroethane	0.712	0.637	0.727	0.667	0.690	0.737	0.695	5.4
1,3-Dichlorobenzene	1.861	1.640	1.812	1.840	1.822	2.031	1.834	6.8
1,4-Dichlorobenzene	1.820	1.624	1.782	1.783	1.764	1.989	1.794	6.5
1,2-Dichlorobenzene	1.561	1.431	1.588	1.568	1.560	1.723	1.572	5.9
1,2-Dibromo-3-Chloropropane	0.101	0.092	0.108	0.098	0.108	0.117	0.104	8.3
1,2,4-Trichlorobenzene	0.723	0.735	0.908	0.926	0.994	0.864	0.859	12.7
1,2,3-Trichlorobenzene	0.604	0.614	0.775	0.771	0.835	0.734	0.722	13
1,2-Dichloroethane-d4	0.580	0.514	0.482	0.511	0.477	0.606	0.528	10
Dibromofluoromethane	0.348	0.315	0.296	0.332	0.311	0.371	0.329	8.3
Toluene-d8	1.276	1.179	1.135	1.289	1.203	1.384	1.244	7.2
4-Bromofluorobenzene	0.424	0.394	0.386	0.433	0.405	0.498	0.423	9.6

* 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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/05/2025 09:12

Lab File ID: VX045127.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.611		-2.86	20
Chloromethane	0.770	0.671	0.1	-12.86	20
Vinyl Chloride	0.764	0.689		-9.82	20
Bromomethane	0.300	0.271		-9.67	20
Chloroethane	0.352	0.291		-17.33	20
Trichlorofluoromethane	1.012	0.938		-7.31	20
1,1,2-Trichlorotrifluoroethane	0.581	0.581		0	20
1,1-Dichloroethene	0.614	0.553		-9.94	20
Acetone	0.369	0.301		-18.43	20
Carbon Disulfide	1.636	1.452		-11.25	20
Methyl tert-butyl Ether	2.061	1.855		-9.99	20
Methyl Acetate	0.888	0.810		-8.78	20
Methylene Chloride	0.731	0.640		-12.45	20
trans-1,2-Dichloroethene	0.607	0.571		-5.93	20
1,1-Dichloroethane	1.247	1.123	0.1	-9.94	20
Cyclohexane	1.082	1.035		-4.34	20
2-Butanone	0.555	0.488		-12.07	20
Carbon Tetrachloride	0.465	0.457		-1.72	20
cis-1,2-Dichloroethene	0.749	0.684		-8.68	20
Bromochloromethane	0.594	0.559		-5.89	20
Chloroform	1.239	1.123		-9.36	20
1,1,1-Trichloroethane	1.000	0.923		-7.7	20
Methylcyclohexane	0.549	0.609		10.93	20
Benzene	1.448	1.416		-2.21	20
1,2-Dichloroethane	0.521	0.506		-2.88	20
Trichloroethene	0.340	0.338		-0.59	20
1,2-Dichloropropane	0.372	0.355		-4.57	20
Bromodichloromethane	0.516	0.512		-0.77	20
4-Methyl-2-Pentanone	0.587	0.550		-6.3	20
Toluene	0.849	0.858		1.06	20
t-1,3-Dichloropropene	0.431	0.464		7.66	20
cis-1,3-Dichloropropene	0.503	0.541		7.55	20
1,1,2-Trichloroethane	0.350	0.334		-4.57	20
2-Hexanone	0.425	0.404		-4.94	20
Dibromochloromethane	0.366	0.374		2.19	20
1,2-Dibromoethane	0.349	0.340		-2.58	20
Tetrachloroethene	0.320	0.328		2.5	20
Chlorobenzene	1.058	1.044	0.3	-1.32	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/05/2025 09:12

Lab File ID: VX045127.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	1.877		1.85	20
m/p-Xylenes	0.675	0.695		2.96	20
o-Xylene	0.681	0.676		-0.73	20
Styrene	1.101	1.118		1.54	20
Bromoform	0.266	0.272	0.1	2.26	20
Isopropylbenzene	3.903	3.893		-0.26	20
1,1,2,2-Tetrachloroethane	1.432	1.304	0.3	-8.94	20
1,3-Dichlorobenzene	1.643	1.598		-2.74	20
1,4-Dichlorobenzene	1.662	1.585		-4.63	20
1,2-Dichlorobenzene	1.648	1.633		-0.91	20
1,2-Dibromo-3-Chloropropane	0.279	0.264		-5.38	20
1,2,4-Trichlorobenzene	0.938	0.991		5.65	20
1,2,3-Trichlorobenzene	0.990	1.016		2.63	20
1,2-Dichloroethane-d4	0.795	0.743		-6.54	20
Dibromofluoromethane	0.334	0.344		2.99	20
Toluene-d8	1.212	1.229		1.4	20
4-Bromofluorobenzene	0.402	0.412		2.49	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.631		0.32	20
Chloromethane	0.770	0.723	0.1	-6.1	20
Vinyl Chloride	0.764	0.725		-5.11	20
Bromomethane	0.300	0.280		-6.67	20
Chloroethane	0.352	0.298		-15.34	20
Trichlorofluoromethane	1.012	0.973		-3.85	20
1,1,2-Trichlorotrifluoroethane	0.581	0.616		6.02	20
1,1-Dichloroethene	0.614	0.600		-2.28	20
Acetone	0.369	0.345		-6.5	20
Carbon Disulfide	1.636	1.462		-10.64	20
Methyl tert-butyl Ether	2.061	2.015		-2.23	20
Methyl Acetate	0.888	0.957		7.77	20
Methylene Chloride	0.731	0.704		-3.69	20
trans-1,2-Dichloroethene	0.607	0.610		0.49	20
1,1-Dichloroethane	1.247	1.215	0.1	-2.57	20
Cyclohexane	1.082	1.086		0.37	20
2-Butanone	0.555	0.564		1.62	20
Carbon Tetrachloride	0.465	0.458		-1.5	20
cis-1,2-Dichloroethene	0.749	0.750		0.13	20
Bromochloromethane	0.594	0.551		-7.24	20
Chloroform	1.239	1.209		-2.42	20
1,1,1-Trichloroethane	1.000	0.978		-2.2	20
Methylcyclohexane	0.549	0.598		8.93	20
Benzene	1.448	1.464		1.11	20
1,2-Dichloroethane	0.521	0.534		2.49	20
Trichloroethene	0.340	0.341		0.29	20
1,2-Dichloropropane	0.372	0.377		1.34	20
Bromodichloromethane	0.516	0.523		1.36	20
4-Methyl-2-Pentanone	0.587	0.616		4.94	20
Toluene	0.849	0.893		5.18	20
t-1,3-Dichloropropene	0.431	0.467		8.35	20
cis-1,3-Dichloropropene	0.503	0.544		8.15	20
1,1,2-Trichloroethane	0.350	0.355		1.43	20
2-Hexanone	0.425	0.451		6.12	20
Dibromochloromethane	0.366	0.378		3.28	20
1,2-Dibromoethane	0.349	0.353		1.15	20
Tetrachloroethene	0.320	0.322		0.63	20
Chlorobenzene	1.058	1.078	0.3	1.89	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	1.931		4.78	20
m/p-Xylenes	0.675	0.704		4.3	20
o-Xylene	0.681	0.694		1.91	20
Styrene	1.101	1.163		5.63	20
Bromoform	0.266	0.266	0.1	0	20
Isopropylbenzene	3.903	3.980		1.95	20
1,1,2,2-Tetrachloroethane	1.432	1.414	0.3	-1.26	20
1,3-Dichlorobenzene	1.643	1.638		-0.3	20
1,4-Dichlorobenzene	1.662	1.644		-1.08	20
1,2-Dichlorobenzene	1.648	1.687		2.37	20
1,2-Dibromo-3-Chloropropane	0.279	0.286		2.51	20
1,2,4-Trichlorobenzene	0.938	1.010		7.68	20
1,2,3-Trichlorobenzene	0.990	1.054		6.47	20
1,2-Dichloroethane-d4	0.795	0.783		-1.51	20
Dibromofluoromethane	0.334	0.341		2.1	20
Toluene-d8	1.212	1.244		2.64	20
4-Bromofluorobenzene	0.402	0.419		4.23	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date/Time: 03/06/2025 10:10

Lab File ID: VY021426.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.403		-12.2	20
Chloromethane	0.647	0.644	0.1	-0.46	20
Vinyl Chloride	0.707	0.731		3.39	20
Bromomethane	0.511	0.498		-2.54	20
Chloroethane	0.467	0.503		7.71	20
Trichlorofluoromethane	0.987	0.975		-1.22	20
1,1,2-Trichlorotrifluoroethane	0.563	0.524		-6.93	20
1,1-Dichloroethene	0.514	0.484		-5.84	20
Acetone	0.115	0.095		-17.39	20
Carbon Disulfide	1.610	1.552		-3.6	20
Methyl tert-butyl Ether	1.302	1.385		6.38	20
Methyl Acetate	0.256	0.295		15.23	20
Methylene Chloride	0.605	0.568		-6.12	20
trans-1,2-Dichloroethene	0.575	0.563		-2.09	20
1,1-Dichloroethane	1.056	1.061	0.1	0.47	20
Cyclohexane	0.990	0.888		-10.3	20
2-Butanone	0.159	0.160		0.63	20
Carbon Tetrachloride	0.592	0.577		-2.53	20
cis-1,2-Dichloroethene	0.653	0.658		0.77	20
Bromochloromethane	0.443	0.470		6.09	20
Chloroform	1.096	1.107		1	20
1,1,1-Trichloroethane	1.004	0.973		-3.09	20
Methylcyclohexane	0.631	0.612		-3.01	20
Benzene	1.515	1.544		1.91	20
1,2-Dichloroethane	0.424	0.447		5.43	20
Trichloroethene	0.383	0.378		-1.3	20
1,2-Dichloropropane	0.361	0.373		3.32	20
Bromodichloromethane	0.533	0.559		4.88	20
4-Methyl-2-Pentanone	0.228	0.266		16.67	20
Toluene	0.955	0.975		2.09	20
t-1,3-Dichloropropene	0.470	0.512		8.94	20
cis-1,3-Dichloropropene	0.557	0.587		5.39	20
1,1,2-Trichloroethane	0.263	0.285		8.36	20
2-Hexanone	0.151	0.180		19.2	20
Dibromochloromethane	0.360	0.391		8.61	20
1,2-Dibromoethane	0.248	0.270		8.87	20
Tetrachloroethene	0.407	0.384		-5.65	20
Chlorobenzene	1.181	1.160	0.3	-1.78	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date/Time: 03/06/2025 10:10

Lab File ID: VY021426.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.072	2.064		-0.39	20
m/p-Xylenes	0.787	0.784		-0.38	20
o-Xylene	0.725	0.733		1.1	20
Styrene	1.203	1.259		4.66	20
Bromoform	0.233	0.247	0.1	6.01	20
Isopropylbenzene	3.939	3.682		-6.52	20
1,1,2,2-Tetrachloroethane	0.695	0.694	0.3	-0.14	20
1,3-Dichlorobenzene	1.834	1.710		-6.76	20
1,4-Dichlorobenzene	1.794	1.700		-5.24	20
1,2-Dichlorobenzene	1.572	1.520		-3.31	20
1,2-Dibromo-3-Chloropropane	0.104	0.106		1.92	20
1,2,4-Trichlorobenzene	0.859	0.856		-0.35	20
1,2,3-Trichlorobenzene	0.722	0.742		2.77	20
1,2-Dichloroethane-d4	0.528	0.564		6.82	20
Dibromofluoromethane	0.329	0.349		6.08	20
Toluene-d8	1.244	1.310		5.3	20
4-Bromofluorobenzene	0.423	0.469		10.88	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date/Time: 03/07/2025 09:59

Lab File ID: VY021451.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.437		-4.79	20
Chloromethane	0.647	0.662	0.1	2.32	20
Vinyl Chloride	0.707	0.776		9.76	20
Bromomethane	0.511	0.511		0	20
Chloroethane	0.467	0.546		16.92	20
Trichlorofluoromethane	0.987	1.164		17.93	20
1,1,2-Trichlorotrifluoroethane	0.563	0.577		2.49	20
1,1-Dichloroethene	0.514	0.513		-0.19	20
Acetone	0.115	0.121		5.22	20
Carbon Disulfide	1.610	1.632		1.37	20
Methyl tert-butyl Ether	1.302	1.304		0.15	20
Methyl Acetate	0.256	0.280		9.38	20
Methylene Chloride	0.605	0.575		-4.96	20
trans-1,2-Dichloroethene	0.575	0.587		2.09	20
1,1-Dichloroethane	1.056	1.095	0.1	3.69	20
Cyclohexane	0.990	0.981		-0.91	20
2-Butanone	0.159	0.163		2.52	20
Carbon Tetrachloride	0.592	0.617		4.22	20
cis-1,2-Dichloroethene	0.653	0.675		3.37	20
Bromochloromethane	0.443	0.448		1.13	20
Chloroform	1.096	1.152		5.11	20
1,1,1-Trichloroethane	1.004	1.033		2.89	20
Methylcyclohexane	0.631	0.679		7.61	20
Benzene	1.515	1.595		5.28	20
1,2-Dichloroethane	0.424	0.448		5.66	20
Trichloroethene	0.383	0.395		3.13	20
1,2-Dichloropropane	0.361	0.384		6.37	20
Bromodichloromethane	0.533	0.567		6.38	20
4-Methyl-2-Pentanone	0.228	0.236		3.51	20
Toluene	0.955	1.025		7.33	20
t-1,3-Dichloropropene	0.470	0.503		7.02	20
cis-1,3-Dichloropropene	0.557	0.592		6.28	20
1,1,2-Trichloroethane	0.263	0.278		5.7	20
2-Hexanone	0.151	0.163		7.95	20
Dibromochloromethane	0.360	0.381		5.83	20
1,2-Dibromoethane	0.248	0.257		3.63	20
Tetrachloroethene	0.407	0.413		1.47	20
Chlorobenzene	1.181	1.219	0.3	3.22	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_Y Calibration Date/Time: 03/07/2025 09:59

Lab File ID: VY021451.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.072	2.220		7.14	20
m/p-Xylenes	0.787	0.846		7.5	20
o-Xylene	0.725	0.771		6.34	20
Styrene	1.203	1.319		9.64	20
Bromoform	0.233	0.240	0.1	3	20
Isopropylbenzene	3.939	4.043		2.64	20
1,1,2,2-Tetrachloroethane	0.695	0.681	0.3	-2.01	20
1,3-Dichlorobenzene	1.834	1.830		-0.22	20
1,4-Dichlorobenzene	1.794	1.801		0.39	20
1,2-Dichlorobenzene	1.572	1.581		0.57	20
1,2-Dibromo-3-Chloropropane	0.104	0.103		-0.96	20
1,2,4-Trichlorobenzene	0.859	0.884		2.91	20
1,2,3-Trichlorobenzene	0.722	0.741		2.63	20
1,2-Dichloroethane-d4	0.528	0.557		5.49	20
Dibromofluoromethane	0.329	0.352		6.99	20
Toluene-d8	1.244	1.351		8.6	20
4-Bromofluorobenzene	0.423	0.461		8.98	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\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:40:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	242903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	455891	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	410551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	166037	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167202	65.127	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 130.260%			
35) Dibromofluoromethane	7.634	113	157290	52.489	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.980%			
50) Toluene-d8	10.109	98	553466	48.780	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.560%			
62) 4-Bromofluorobenzene	12.408	95	177238	45.922	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.840%			

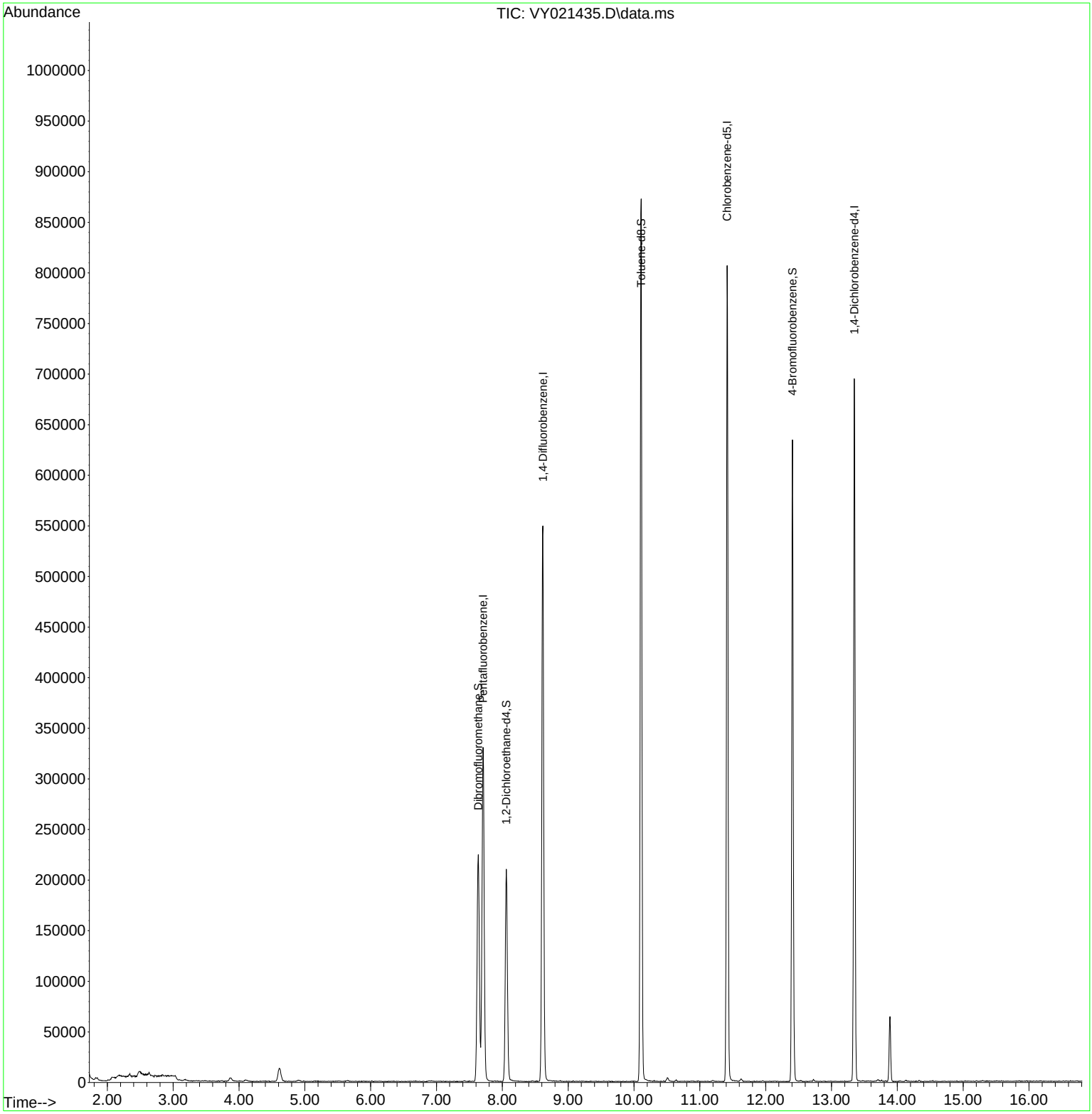
Target Compounds Qvalue

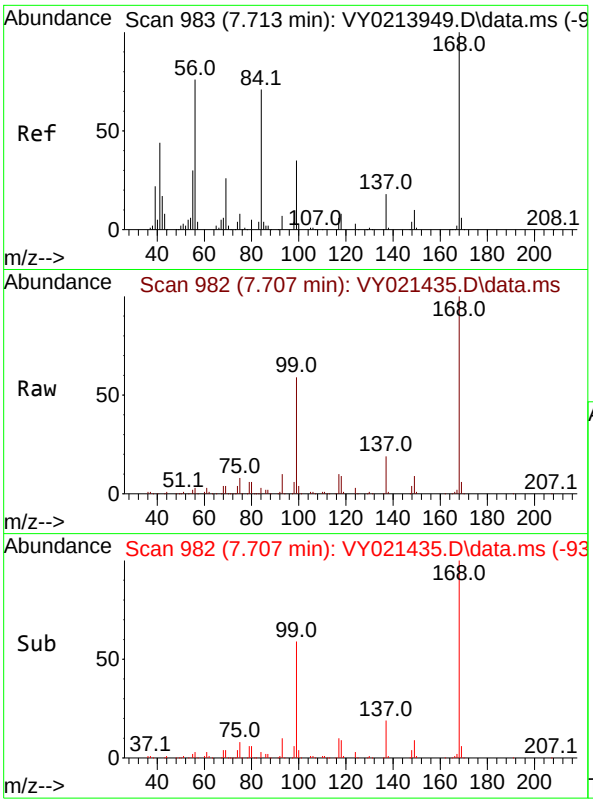
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:40:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



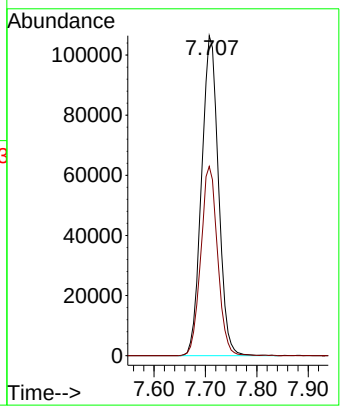


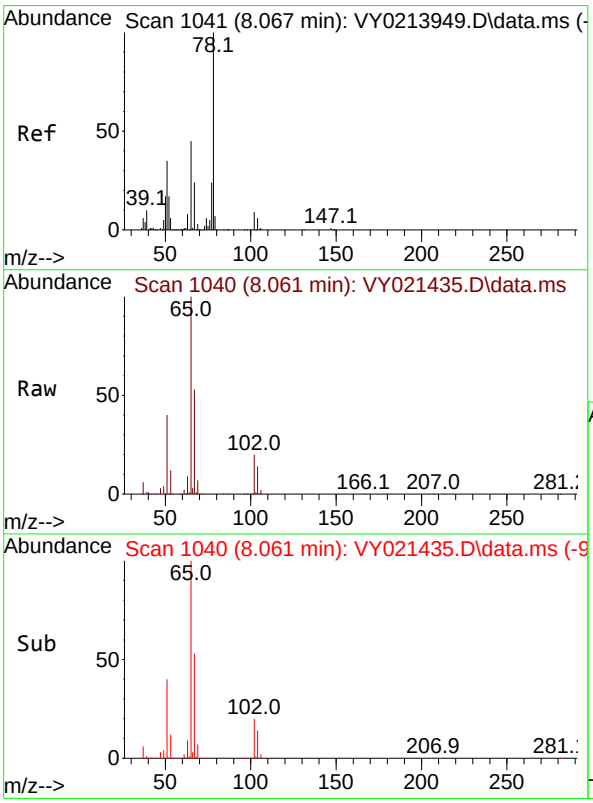
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Tgt Ion:168 Resp: 242903

Ion	Ratio	Lower	Upper
168	100		
99	59.1	46.0	69.0

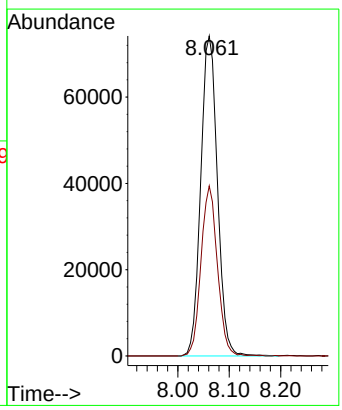


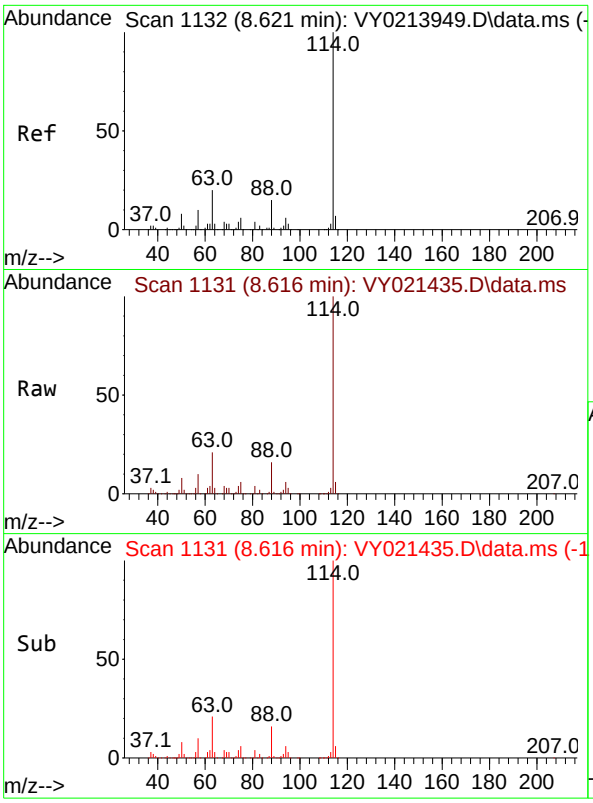


#33
1,2-Dichloroethane-d4
Concen: 65.127 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Tgt Ion: 65 Resp: 167202

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.8



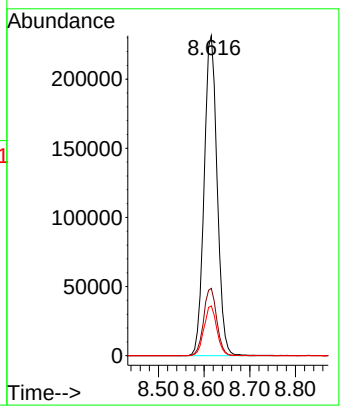


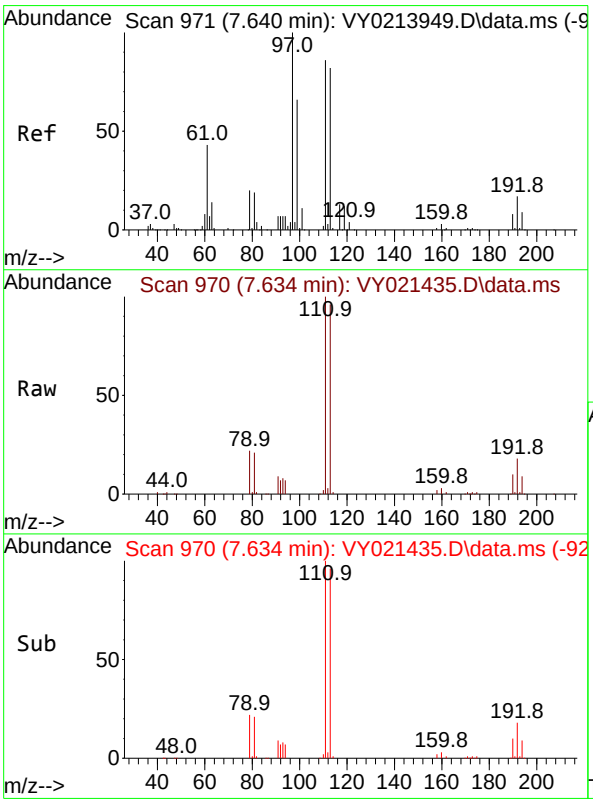
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Tgt Ion:114 Resp: 455891

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.8
88	15.5	0.0	30.8

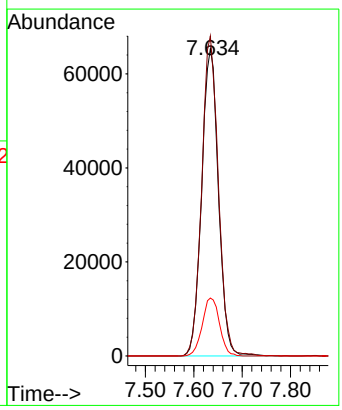


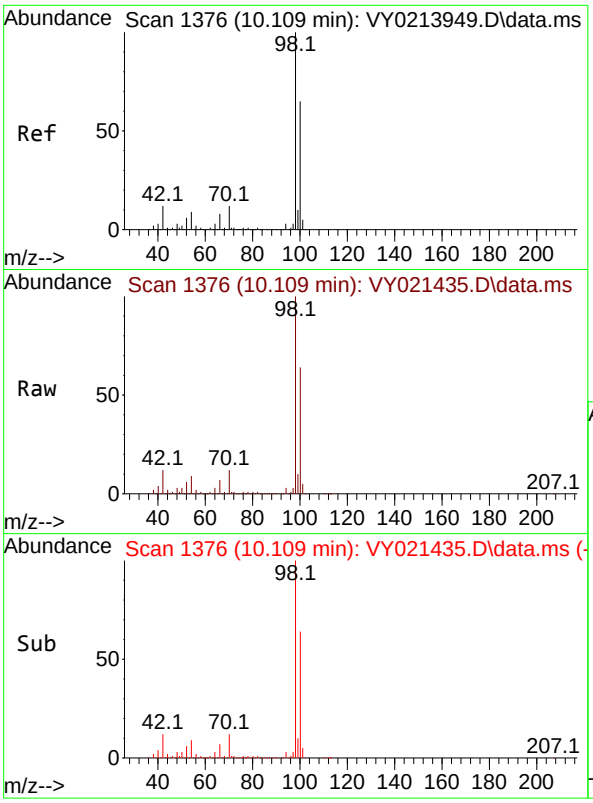


#35
Dibromofluoromethane
Concen: 52.489 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Tgt Ion:113 Resp: 157290

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.0	123.0
192	19.4	15.9	23.9



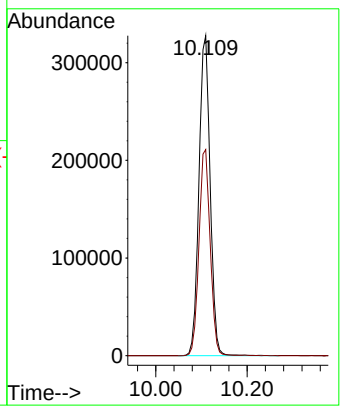


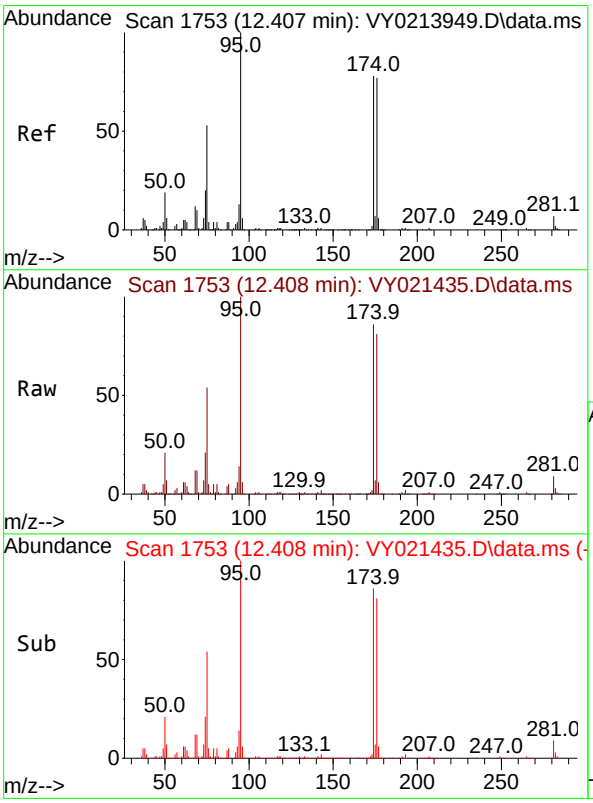
#50
Toluene-d8
Concen: 48.780 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Tgt Ion: 98 Resp: 553466

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.1	78.1

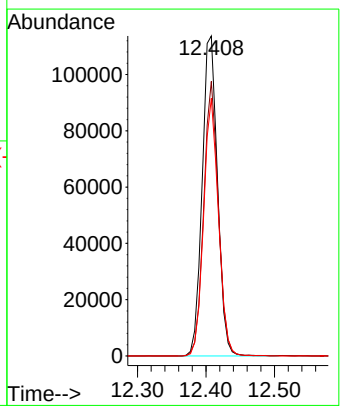


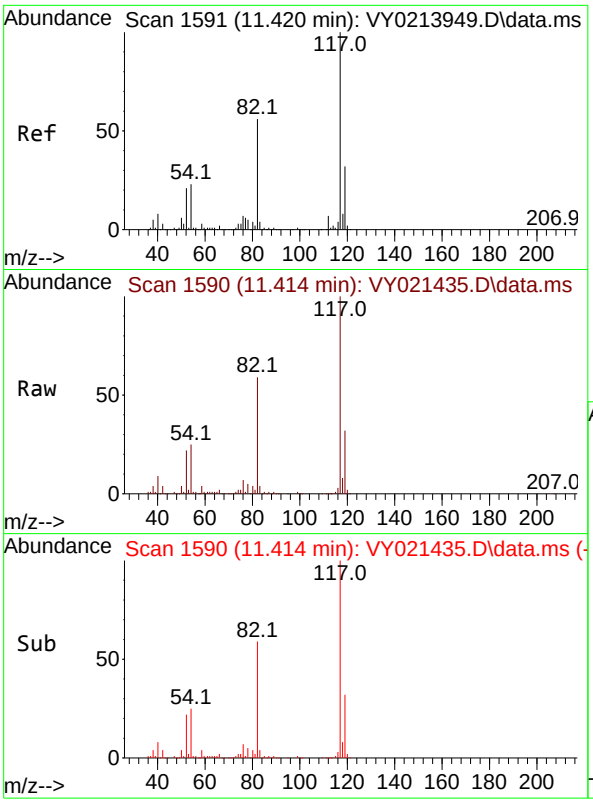


#62
4-Bromofluorobenzene
Concen: 45.922 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Tgt Ion: 95 Resp: 177238

Ion	Ratio	Lower	Upper
95	100		
174	82.1	0.0	165.0
176	77.9	0.0	160.0



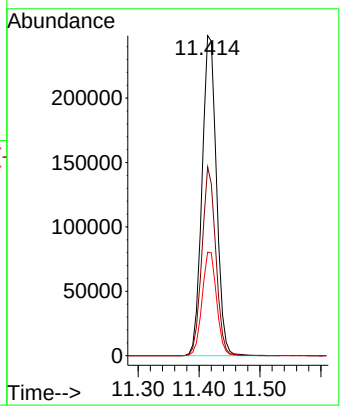


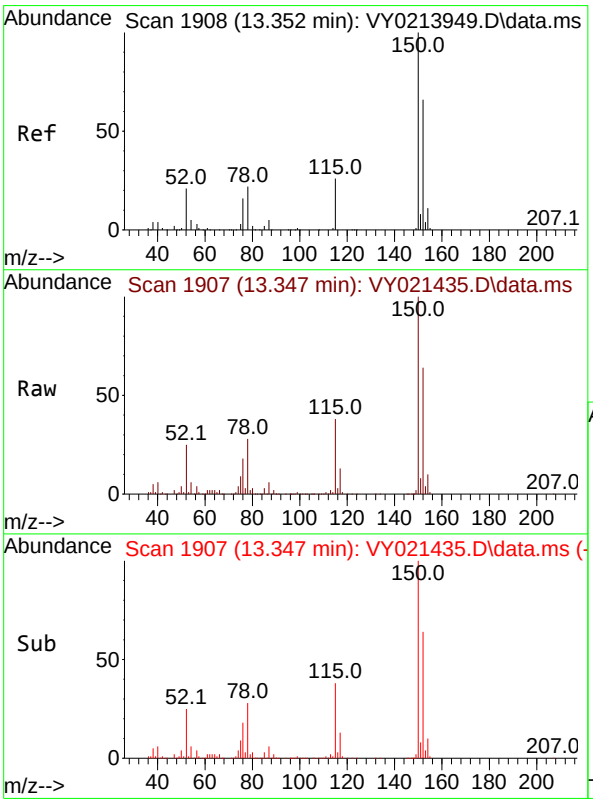
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Tgt Ion:117 Resp: 410551

Ion	Ratio	Lower	Upper
117	100		
82	59.0	44.6	67.0
119	32.4	25.4	38.0

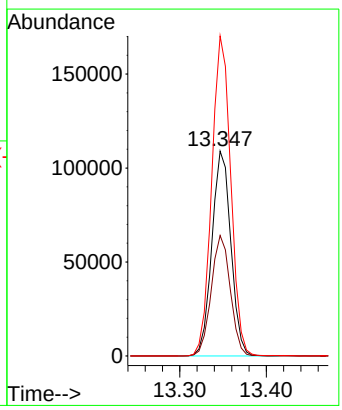




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021435.D
Acq: 06 Mar 2025 15:25

Tgt Ion:152 Resp: 166037

Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.0	87.0
150	156.3	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021435.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	119	126	130	rBV9	5077	15071	1.00%	0.190%
2	4.610	465	474	486	rBV2	12699	39999	2.66%	0.505%
3	7.634	960	970	976	rBV	224154	540909	35.94%	6.826%
4	7.707	976	982	999	rVB	329722	751070	49.91%	9.478%
5	8.061	1031	1040	1052	rBV	209846	469964	31.23%	5.931%
6	8.616	1121	1131	1145	rBV	549026	1094686	72.74%	13.814%
7	10.109	1367	1376	1394	rBV	872193	1504872	100.00%	18.991%
8	11.414	1581	1590	1603	rBV	806588	1321179	87.79%	16.673%
9	12.408	1745	1753	1764	rBV2	634113	1030528	68.48%	13.005%
10	13.347	1900	1907	1916	rVB	693824	1052078	69.91%	13.277%
11	13.889	1989	1996	2003	rVB2	64219	103826	6.90%	1.310%

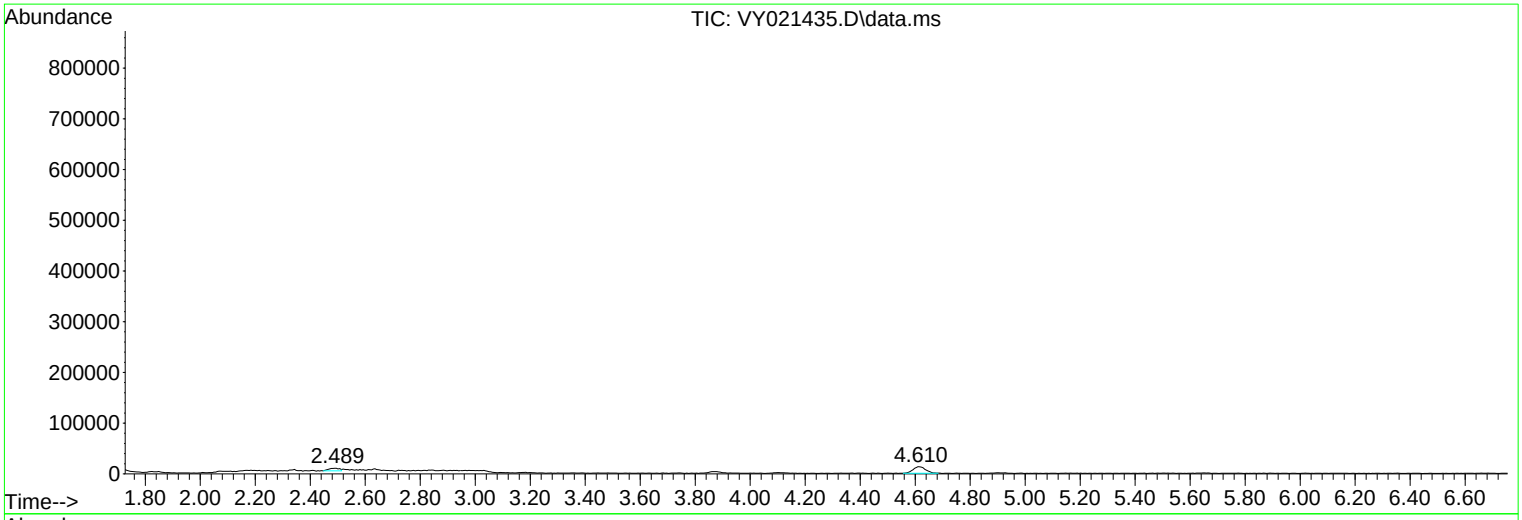
Sum of corrected areas: 7924182

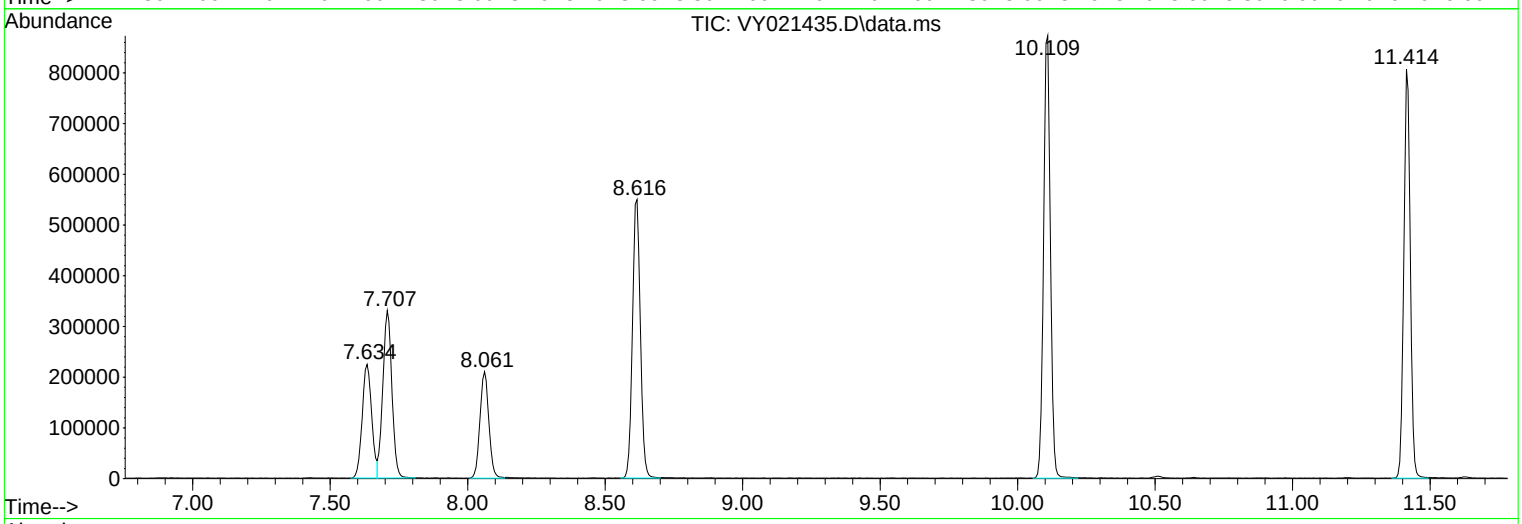
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

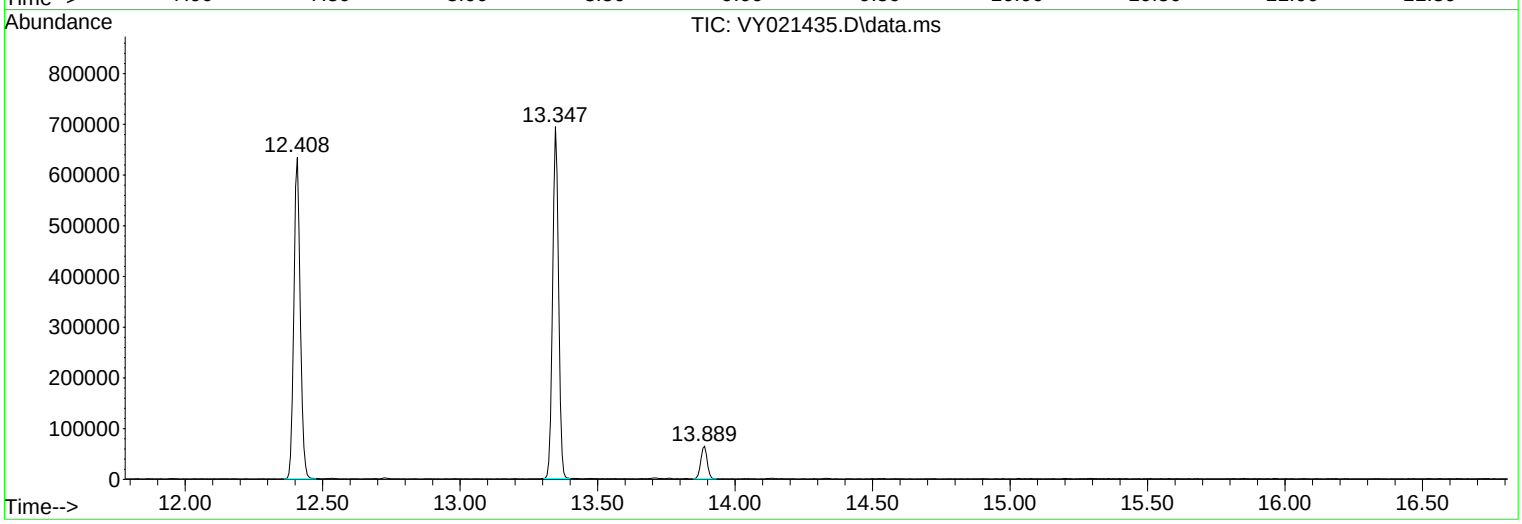
Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030625\
Data File : VY021435.D
Acq On : 06 Mar 2025 15:25
Operator : SY/MD
Sample : Q1488-01
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:40:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

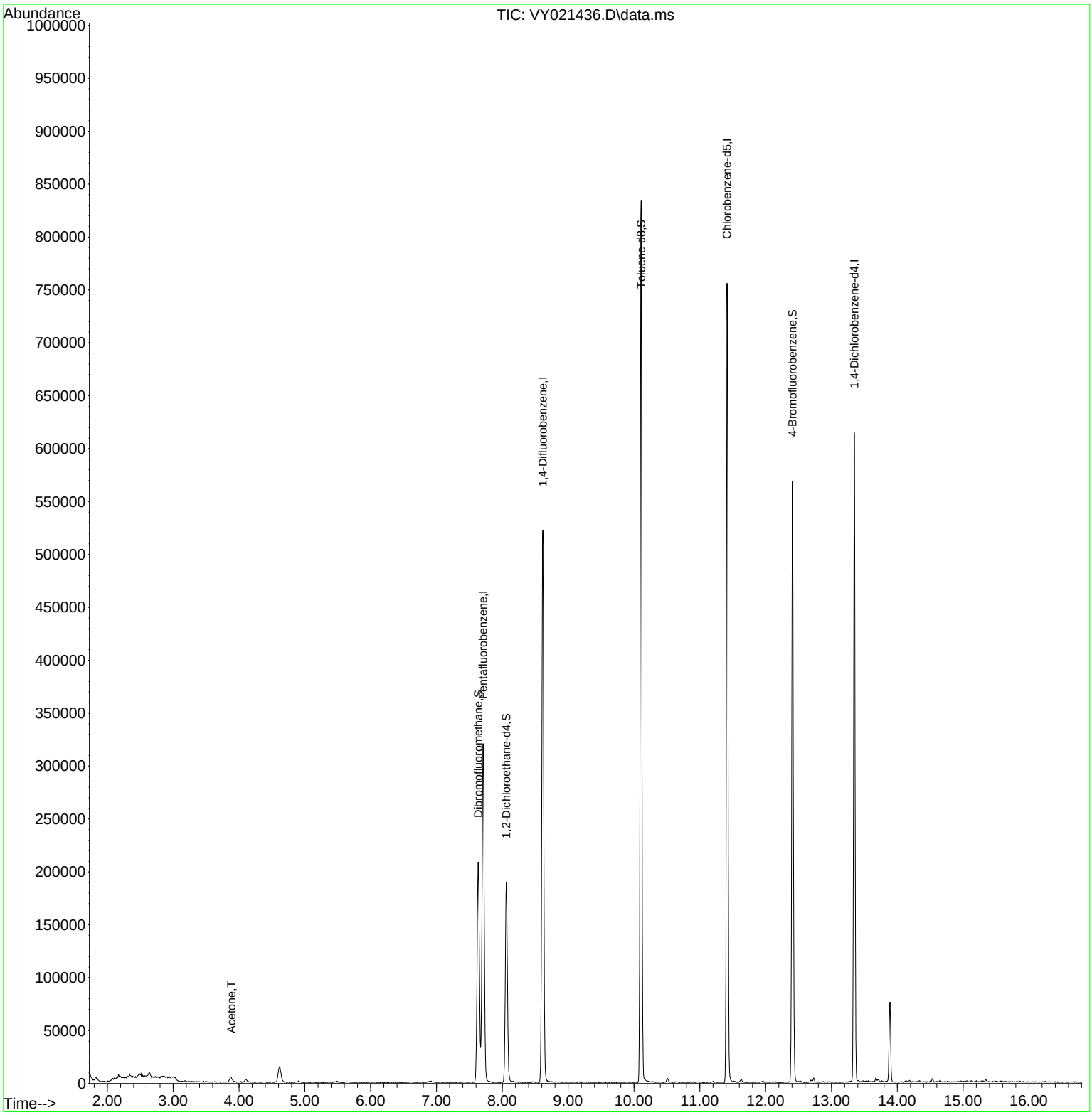
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	234226	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	429130	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	143740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150343	60.729	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.460%			
35) Dibromofluoromethane	7.634	113	145960	51.745	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.500%			
50) Toluene-d8	10.109	98	520619	48.746	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.500%			
62) 4-Bromofluorobenzene	12.408	95	155393	42.773	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.540%			
Target Compounds						Qvalue
16) Acetone	3.885	43	8980	16.631	ug/l	99

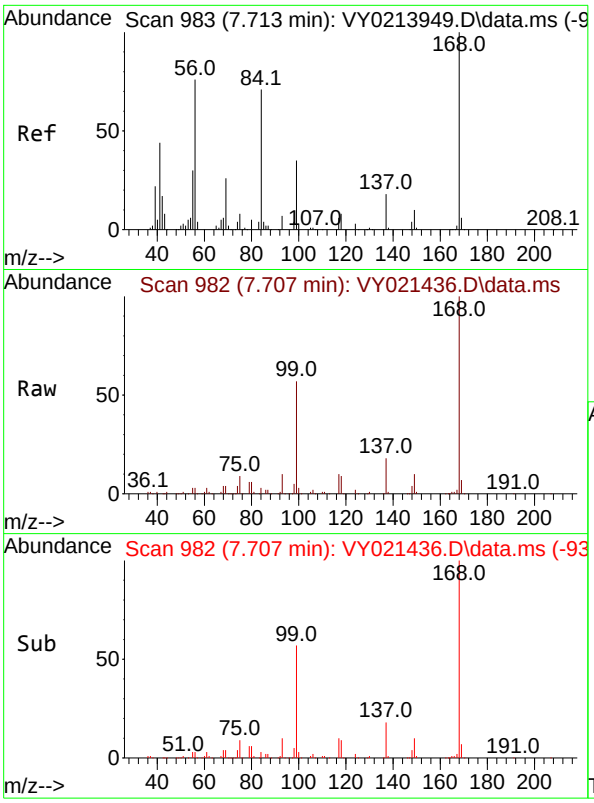
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:40:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



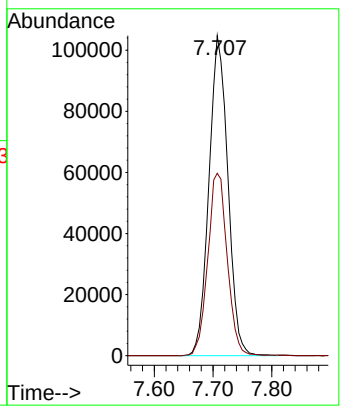


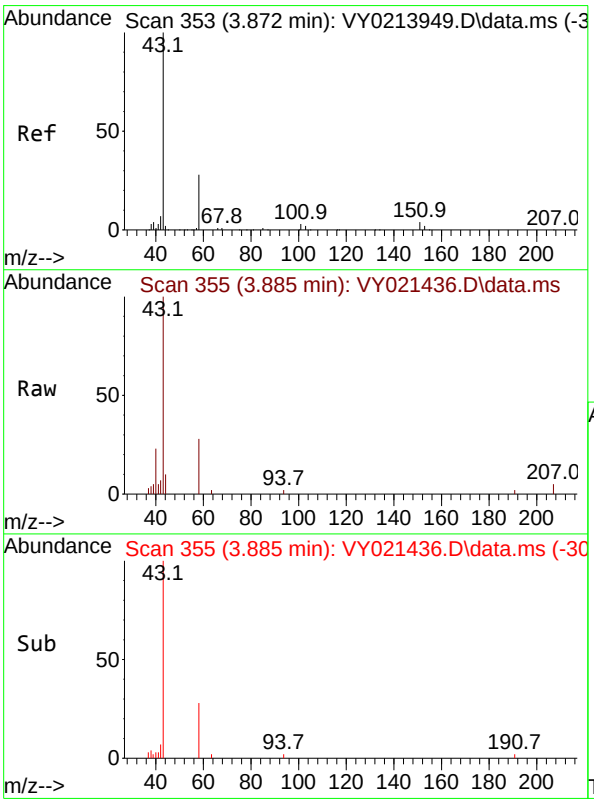
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Tgt Ion:168 Resp: 234226

Ion	Ratio	Lower	Upper
168	100		
99	57.0	46.0	69.0

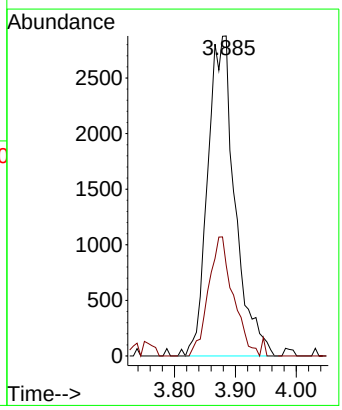


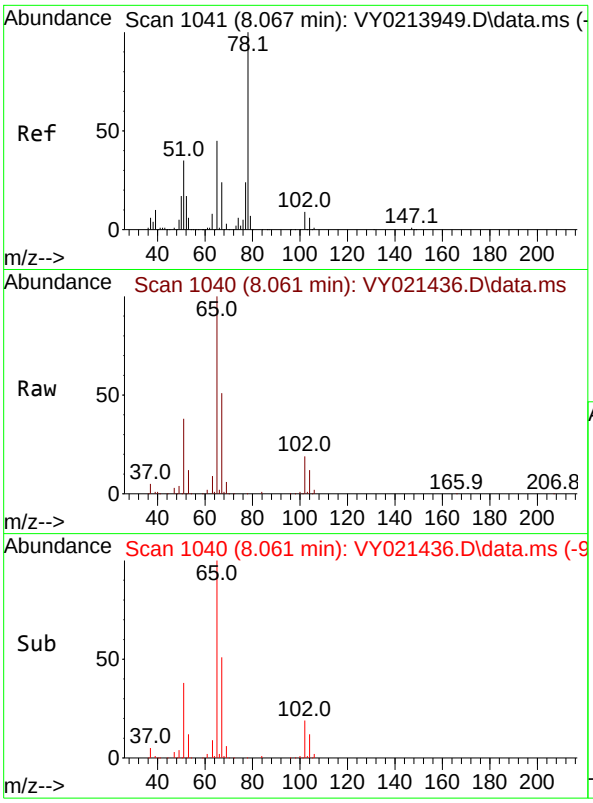


#16
Acetone
Concen: 16.631 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.013 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Tgt Ion: 43 Resp: 8980

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.1	33.1



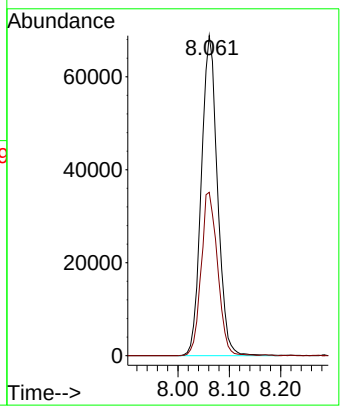


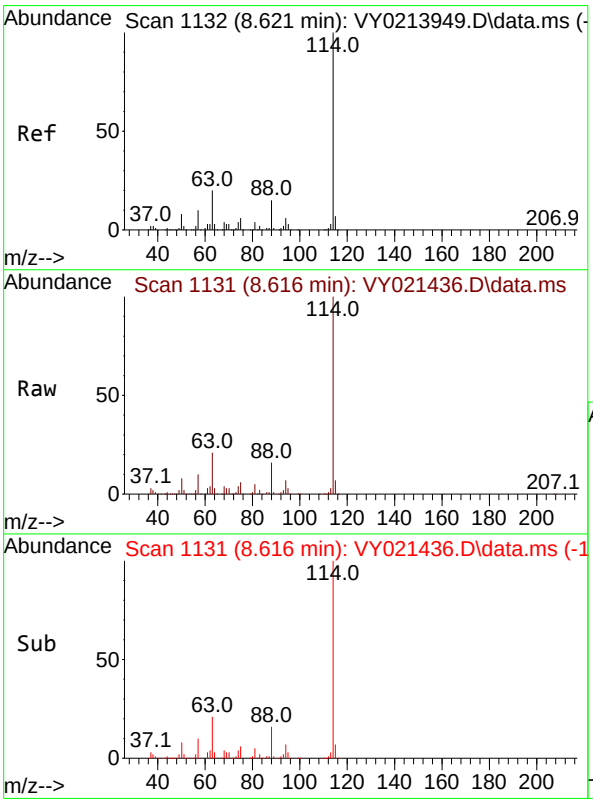
#33
1,2-Dichloroethane-d4
Concen: 60.729 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Tgt Ion: 65 Resp: 150343

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	102.8

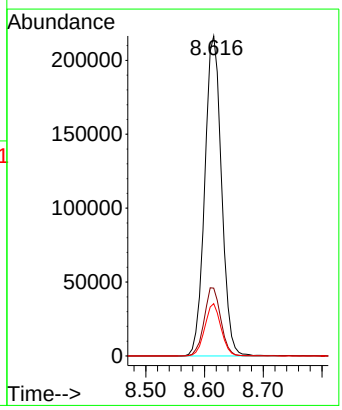


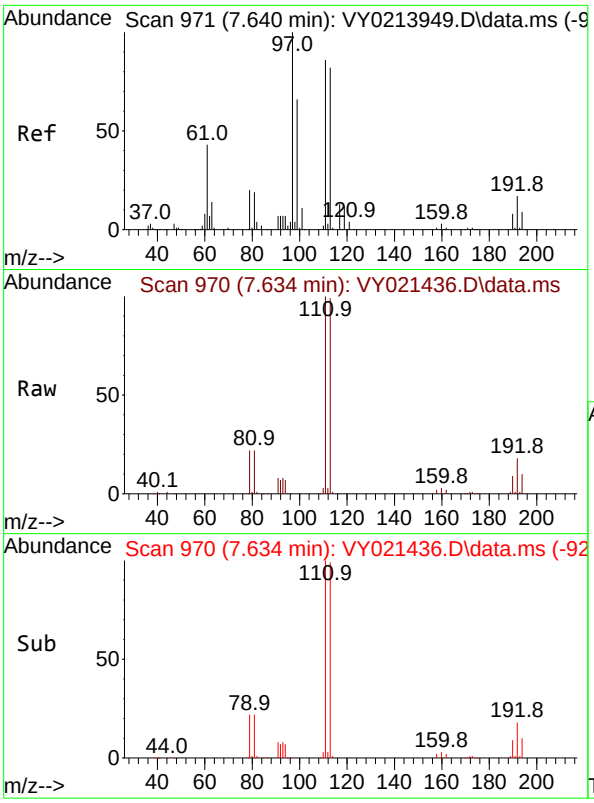


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Tgt Ion:114 Resp: 429130

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	40.8
88	16.4	0.0	30.8



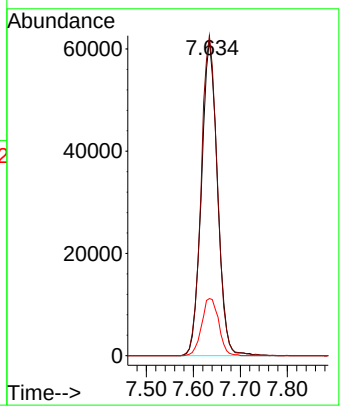


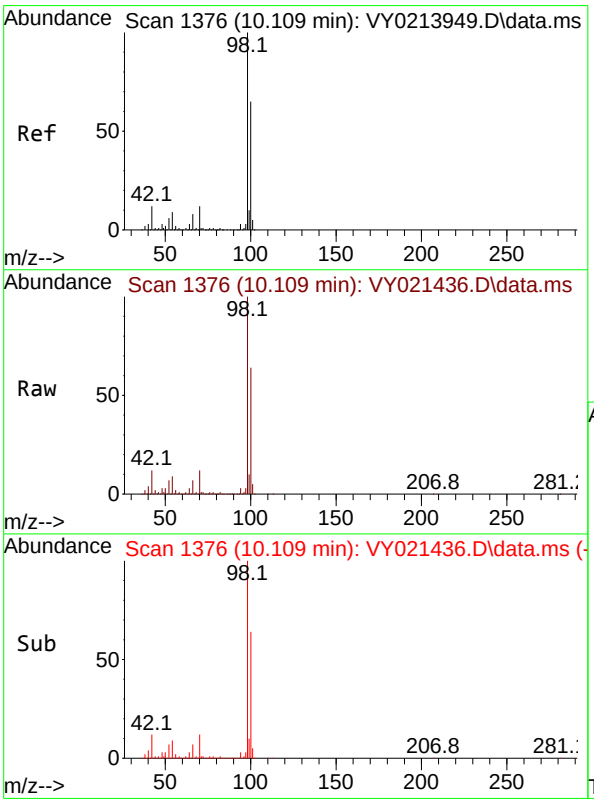
#35
Dibromofluoromethane
Concen: 51.745 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Tgt Ion:113 Resp: 145960

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	19.3	15.9	23.9

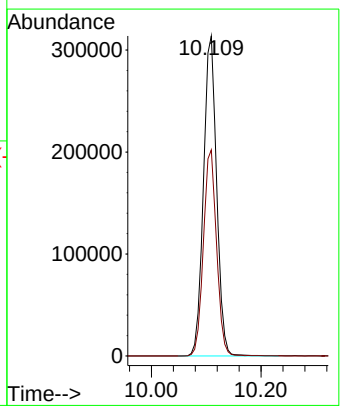


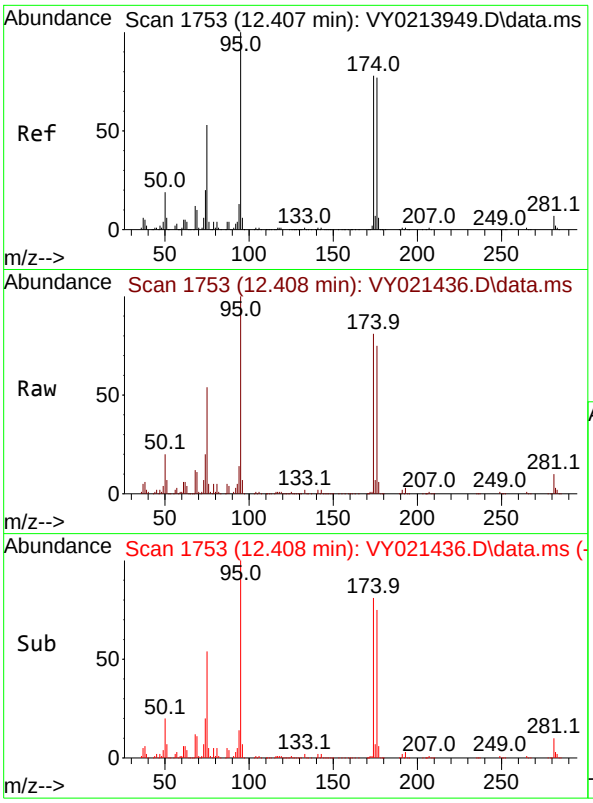


#50
Toluene-d8
Concen: 48.746 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Tgt Ion: 98 Resp: 520619

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.1	78.1



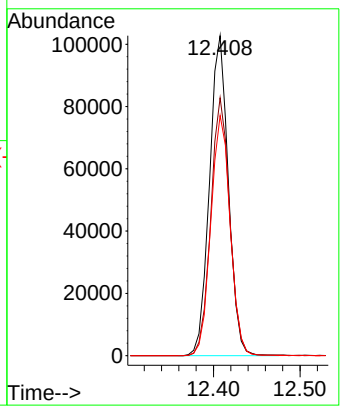


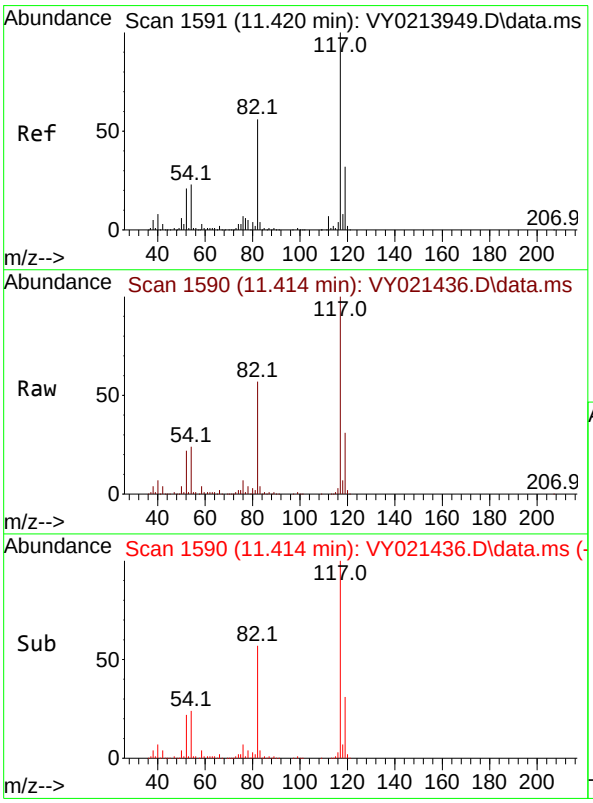
#62
4-Bromofluorobenzene
Concen: 42.773 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Tgt Ion: 95 Resp: 155393

Ion	Ratio	Lower	Upper
95	100		
174	80.9	0.0	165.0
176	76.9	0.0	160.0

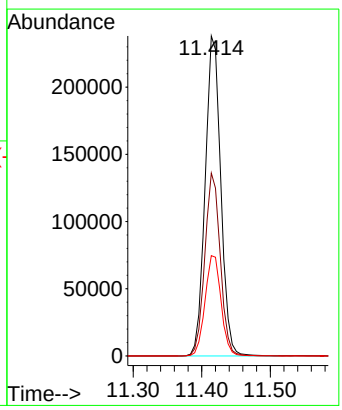


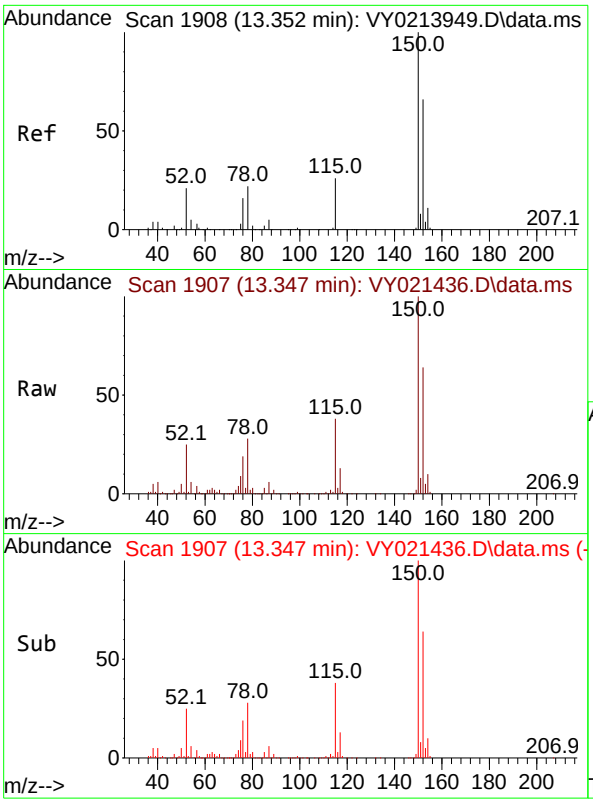


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Tgt Ion:117 Resp: 377679

Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.6	67.0
119	31.4	25.4	38.0



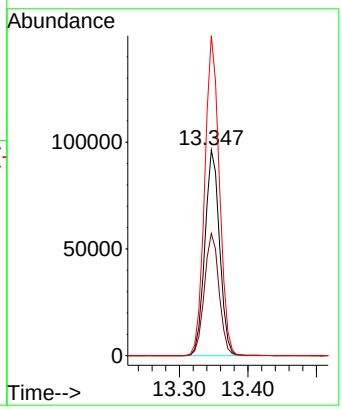


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021436.D
Acq: 06 Mar 2025 15:49

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Tgt Ion:152 Resp: 143740

Ion	Ratio	Lower	Upper
152	100		
115	59.7	29.0	87.0
150	154.9	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021436.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.879	346	354	364	rBV3	5026	14655	1.03%	0.200%
2	4.616	462	475	487	rBV2	14867	47666	3.36%	0.649%
3	7.634	959	970	976	rBV	208384	498593	35.10%	6.792%
4	7.707	976	982	997	rVB	319837	725452	51.08%	9.882%
5	8.061	1030	1040	1055	rBV	189314	425960	29.99%	5.802%
6	8.616	1121	1131	1142	rBV	521651	1035070	72.87%	14.099%
7	10.109	1367	1376	1392	rBV	834091	1420338	100.00%	19.347%
8	11.414	1583	1590	1603	rBV	755461	1206286	84.93%	16.431%
9	12.408	1746	1753	1766	rVB2	567811	927813	65.32%	12.638%
10	13.347	1895	1907	1916	rBV	613700	914833	64.41%	12.461%
11	13.889	1988	1996	2002	rVB2	75424	124689	8.78%	1.698%

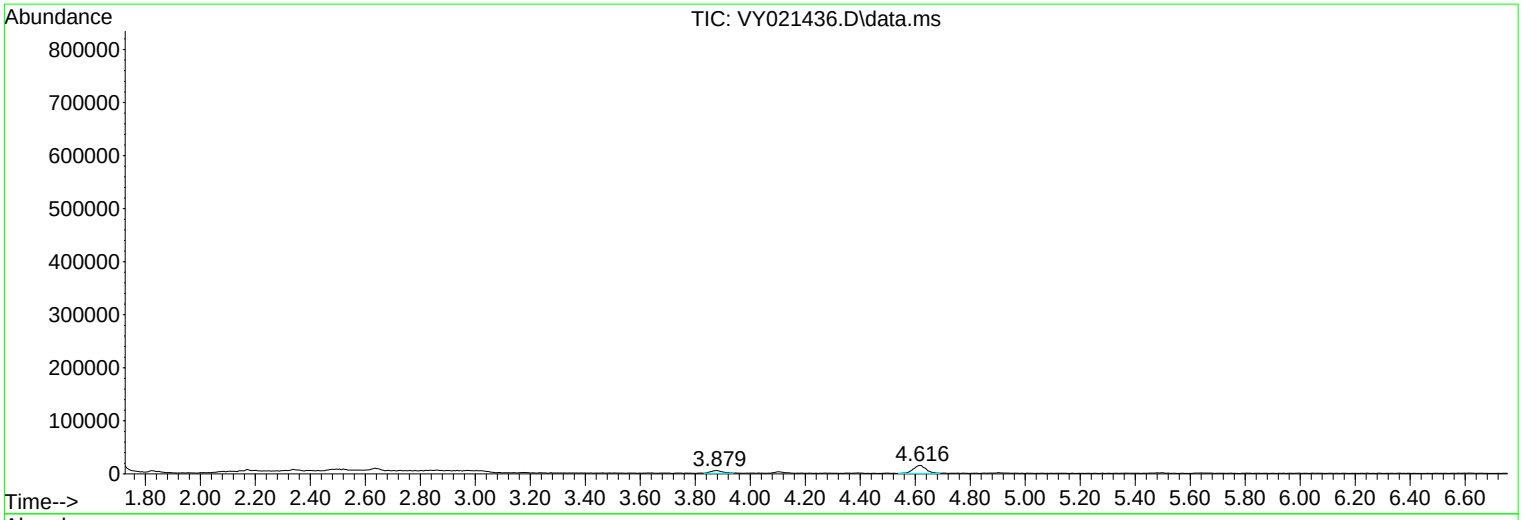
Sum of corrected areas: 7341355

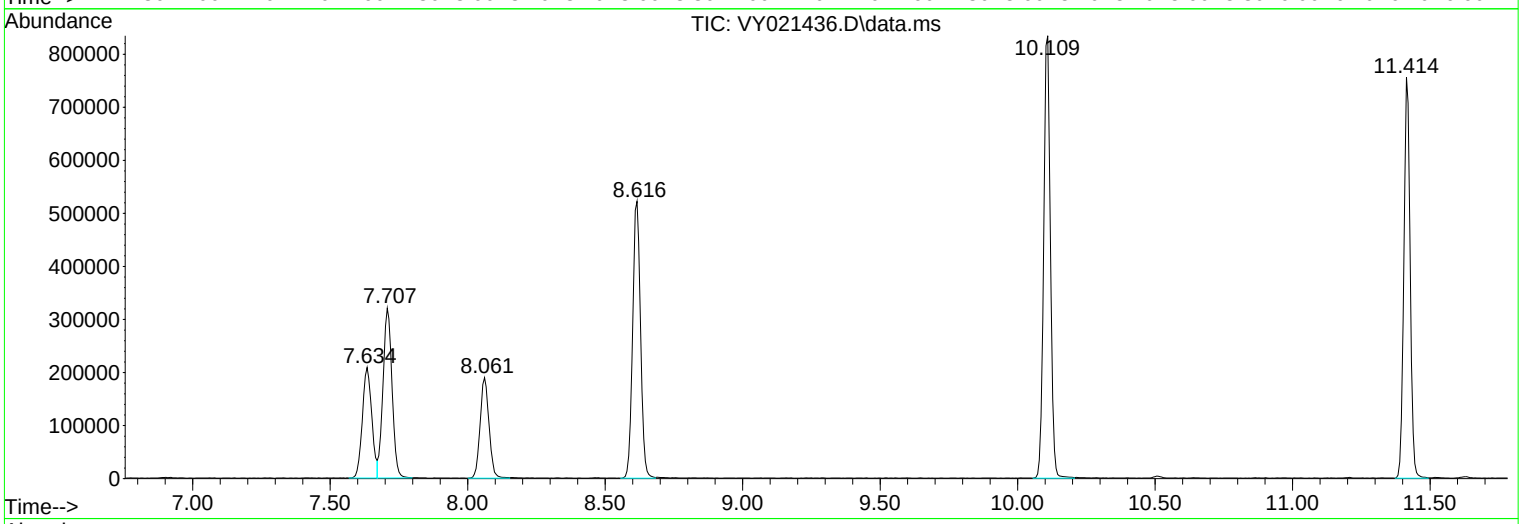
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

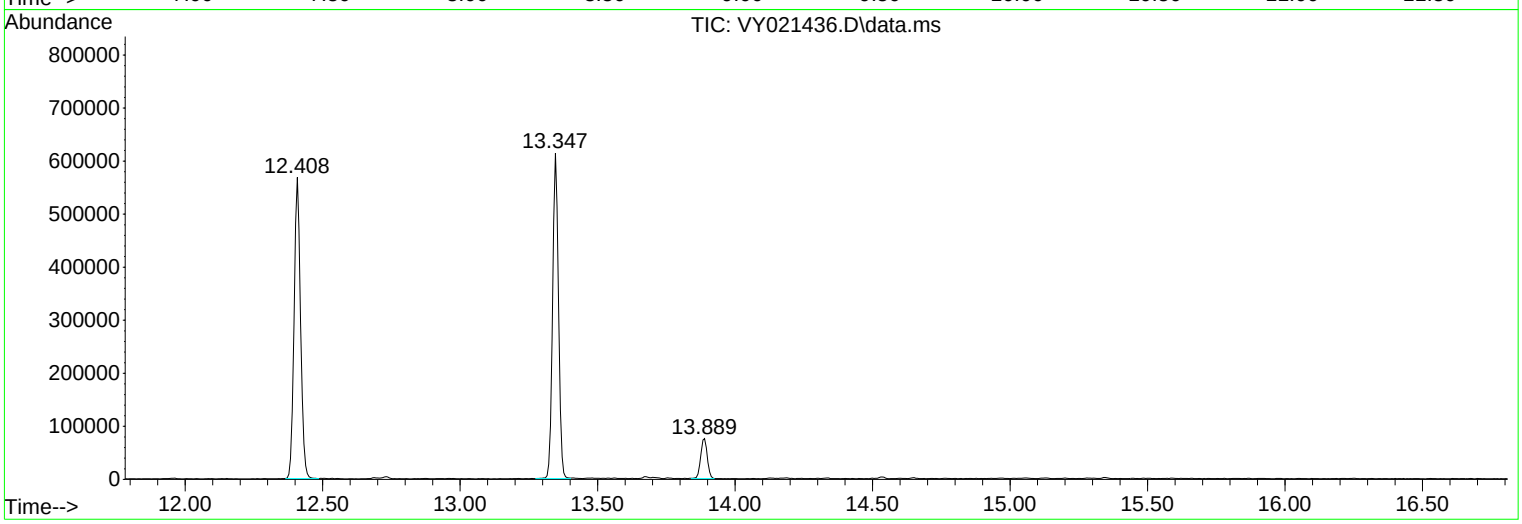
Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

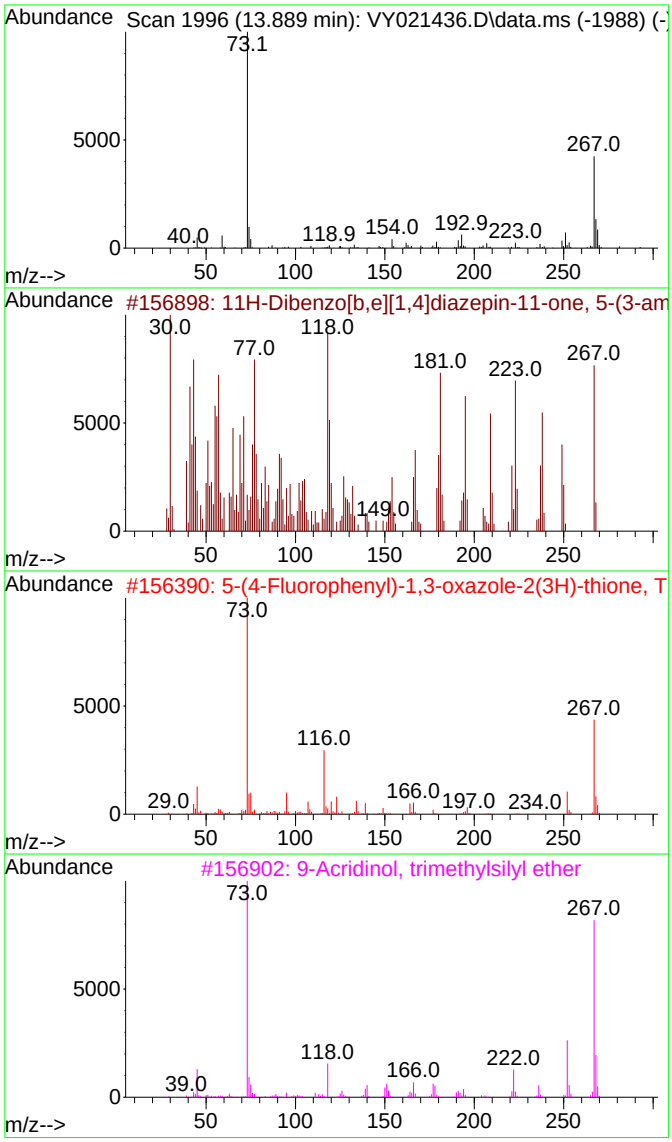
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

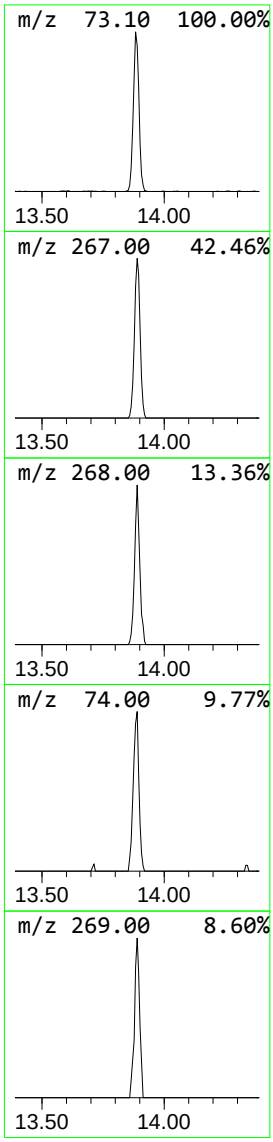
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	6.81 ug/l	124689	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	60
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	59
3	9-Acridinol, trimethylsilyl ether	267	C16H17NOSi	1000463-65-5	59
4	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	59
5	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	56





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021436.D
Acq On : 06 Mar 2025 15:49
Operator : SY/MD
Sample : Q1488-03
Misc : 8.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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
11H-Dibenzo[b,e...	13.889	6.8	ug/l	124689	4	13.347	914833	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:41:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

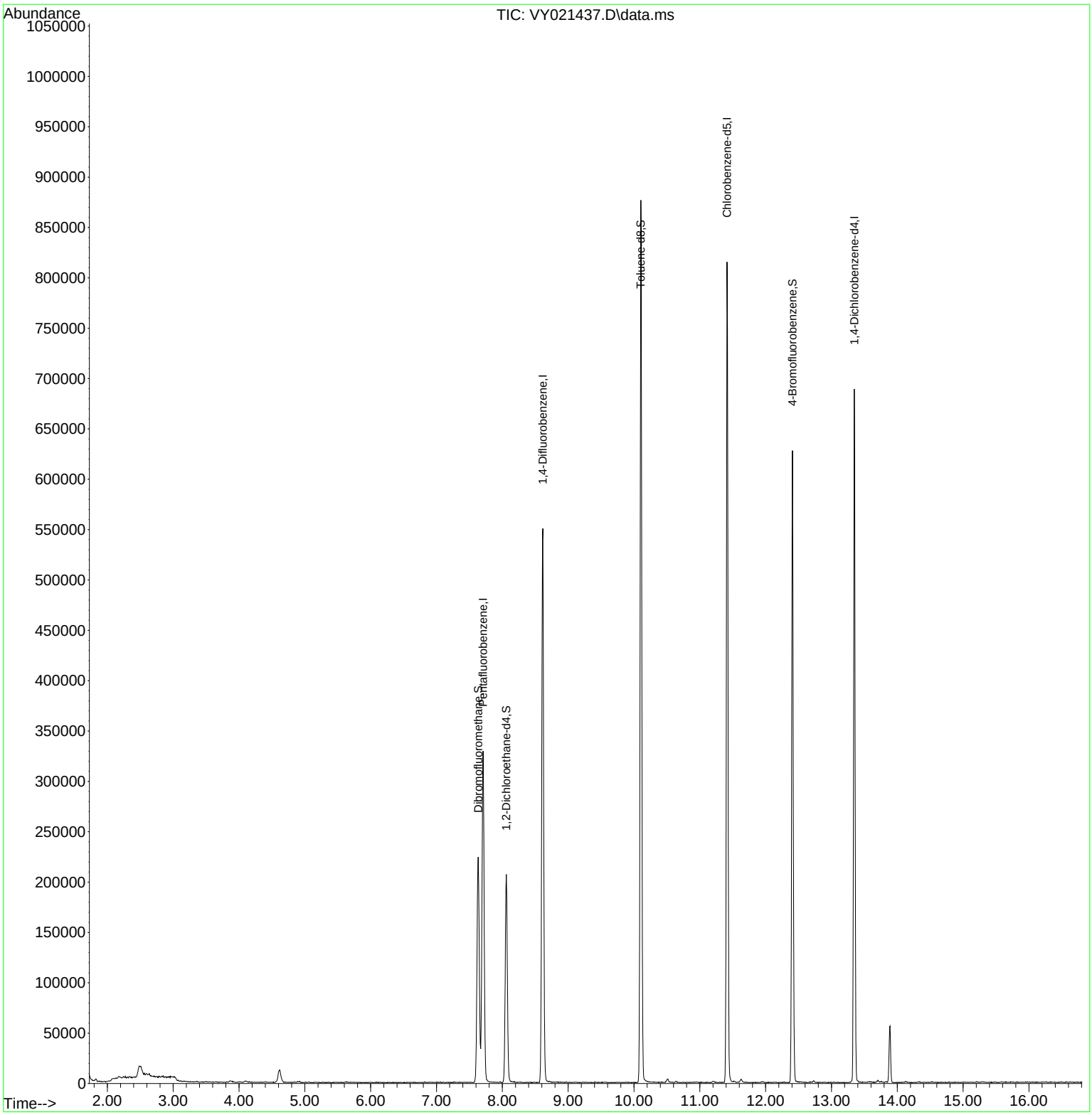
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	245112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	450789	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	408673	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	161699	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	165897	64.036	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 128.080%			
35) Dibromofluoromethane	7.634	113	156243	52.730	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.460%			
50) Toluene-d8	10.103	98	552261	49.224	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.440%			
62) 4-Bromofluorobenzene	12.408	95	176528	46.256	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.520%			
Target Compounds						Qvalue

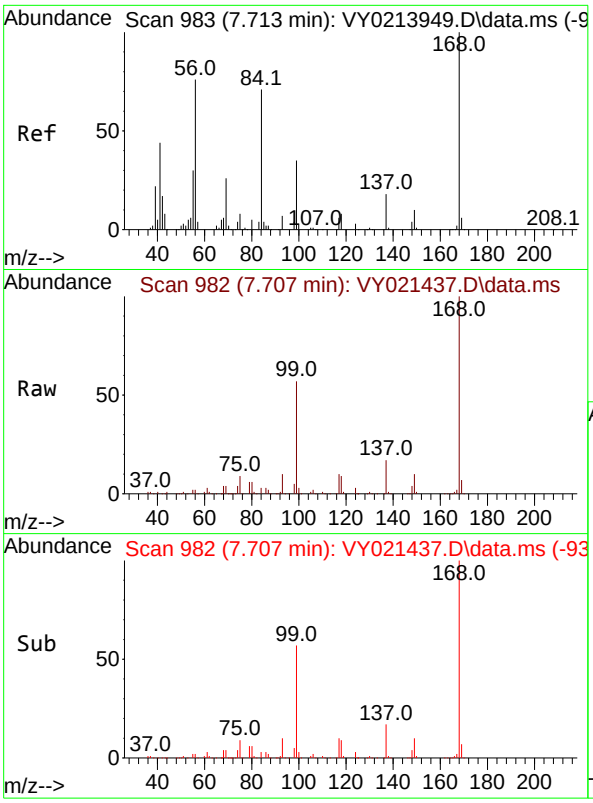
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:41:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



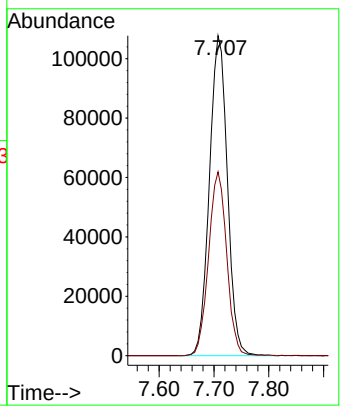


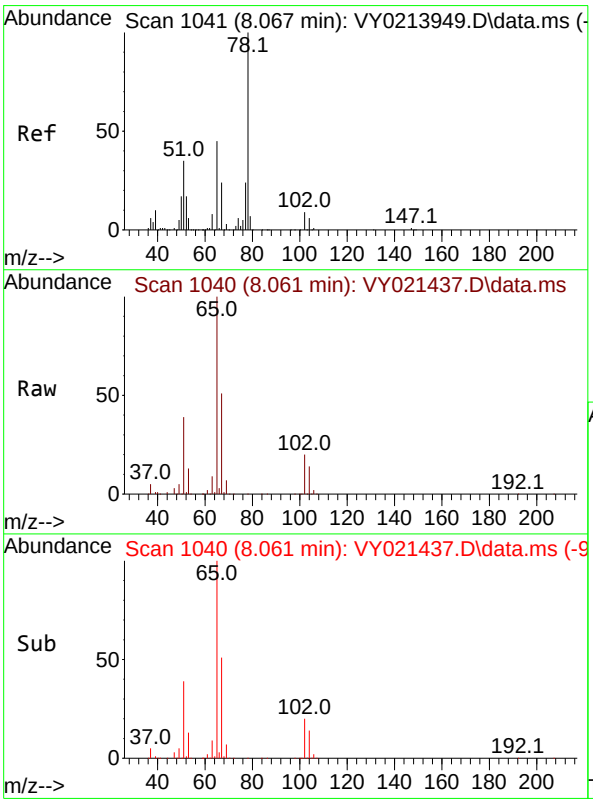
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Tgt Ion:168 Resp: 245112

Ion	Ratio	Lower	Upper
168	100		
99	57.4	46.0	69.0

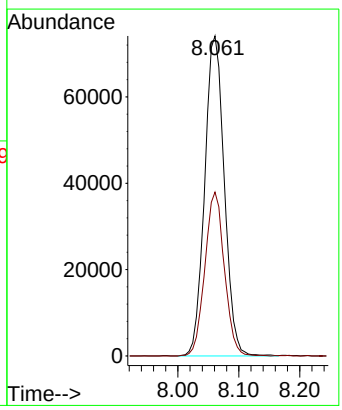


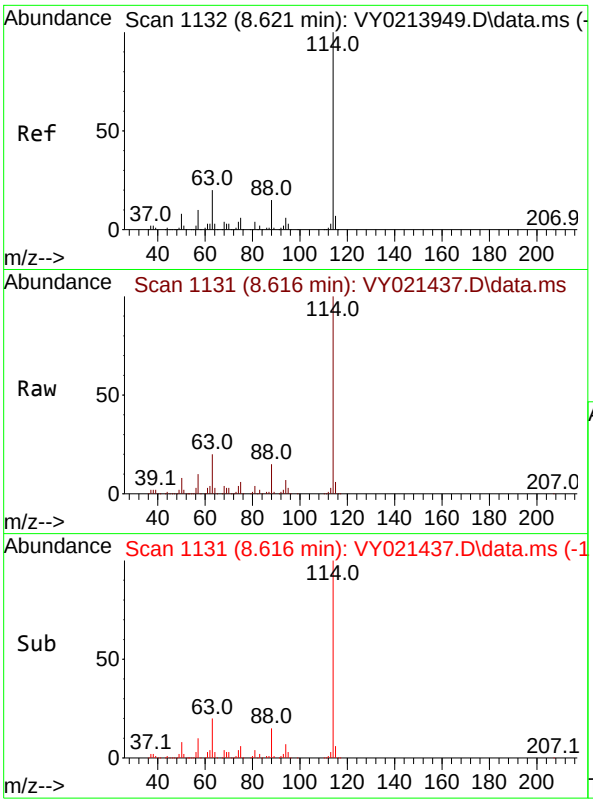


#33
1,2-Dichloroethane-d4
Concen: 64.036 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Tgt Ion: 65 Resp: 165897

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	102.8



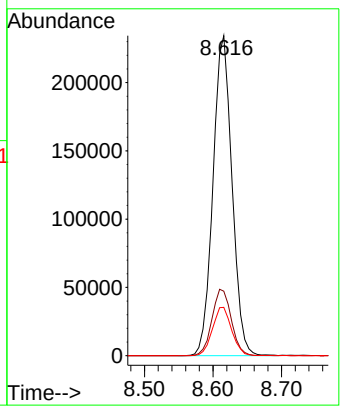


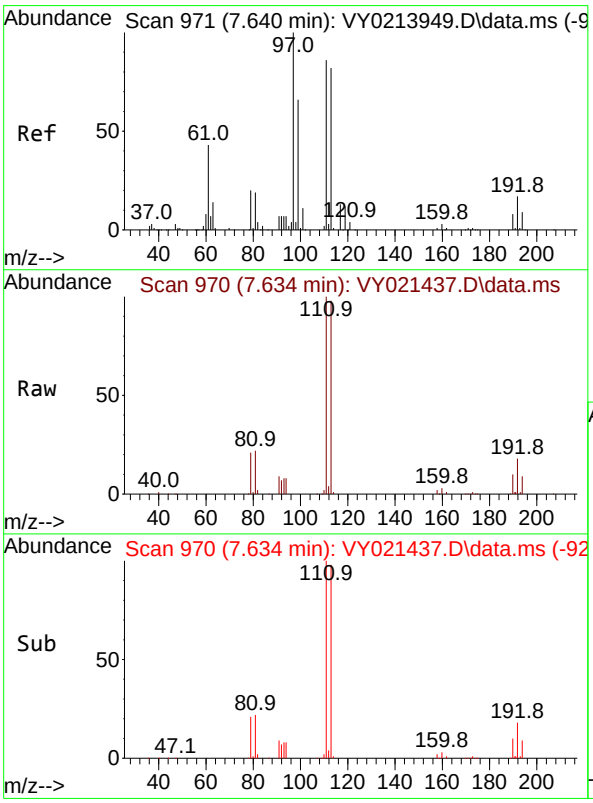
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Tgt Ion:114 Resp: 450789

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	15.1	0.0	30.8

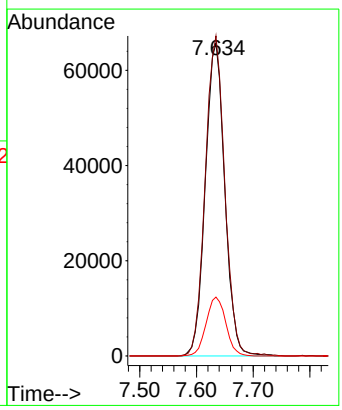


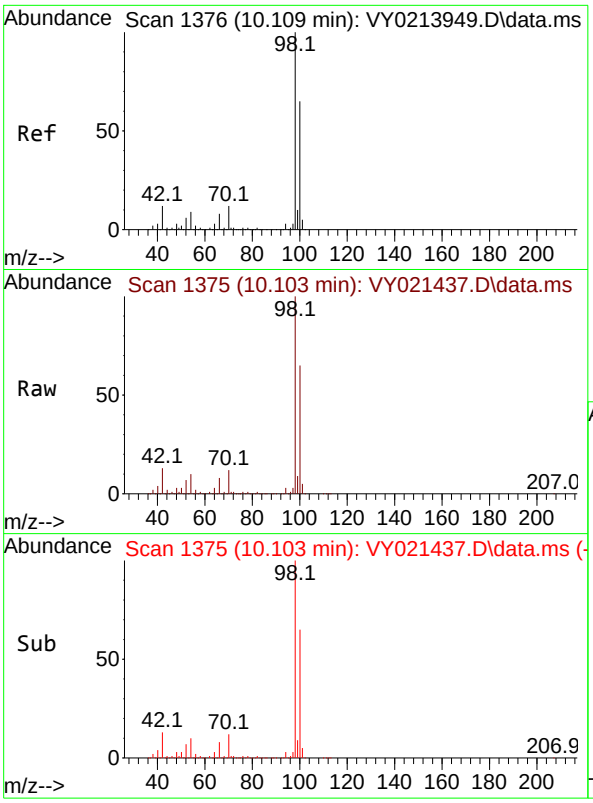


#35
Dibromofluoromethane
Concen: 52.730 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Tgt Ion:113 Resp: 156243

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.0	123.0
192	19.1	15.9	23.9



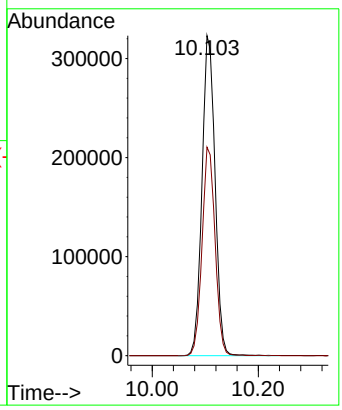


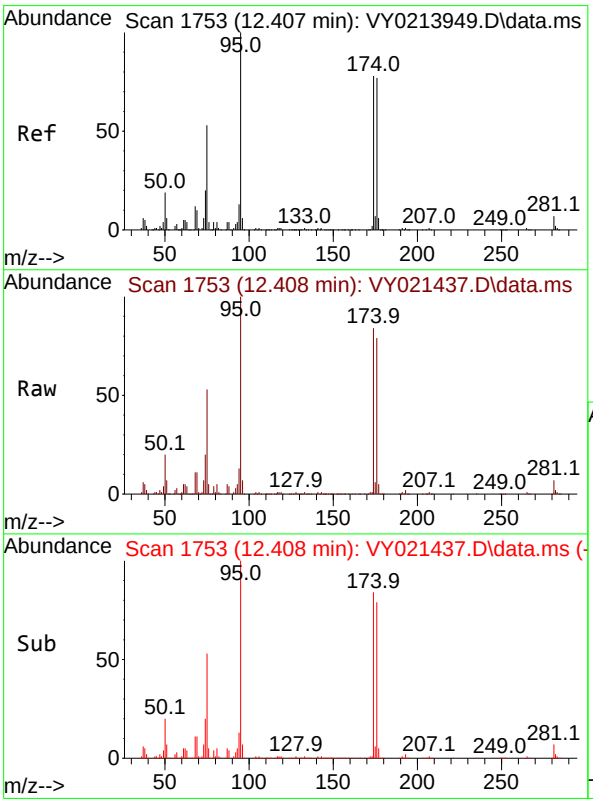
#50
Toluene-d8
Concen: 49.224 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Tgt Ion: 98 Resp: 552261

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1

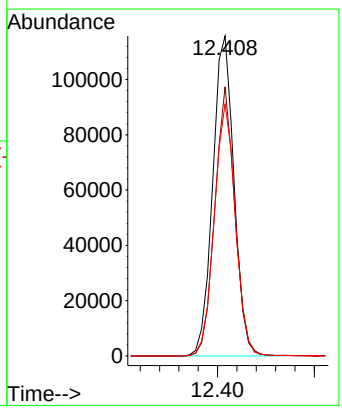


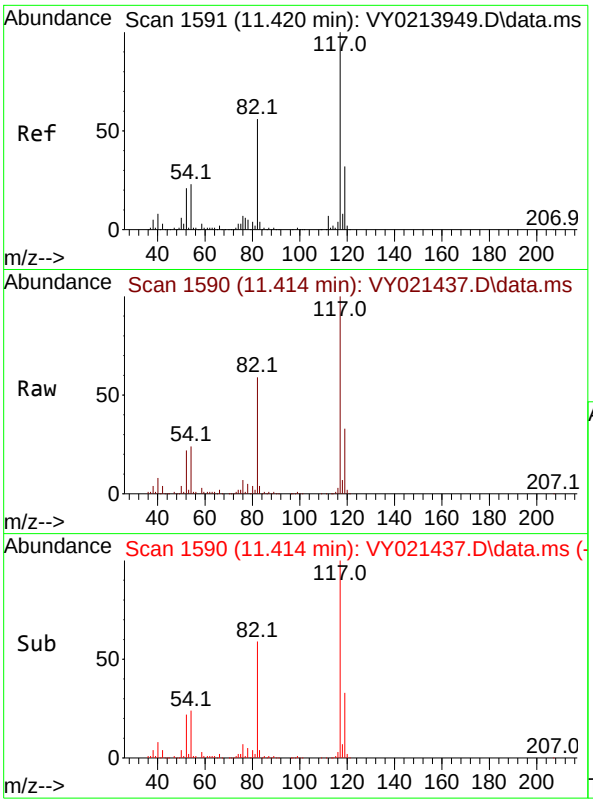


#62
4-Bromofluorobenzene
Concen: 46.256 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Tgt Ion: 95 Resp: 176528

Ion	Ratio	Lower	Upper
95	100		
174	79.6	0.0	165.0
176	78.3	0.0	160.0



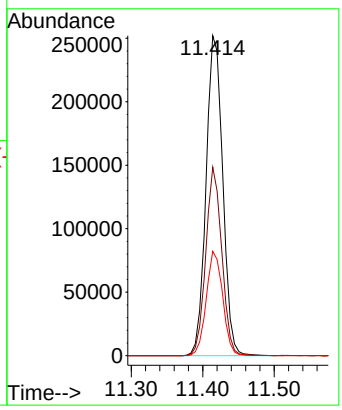


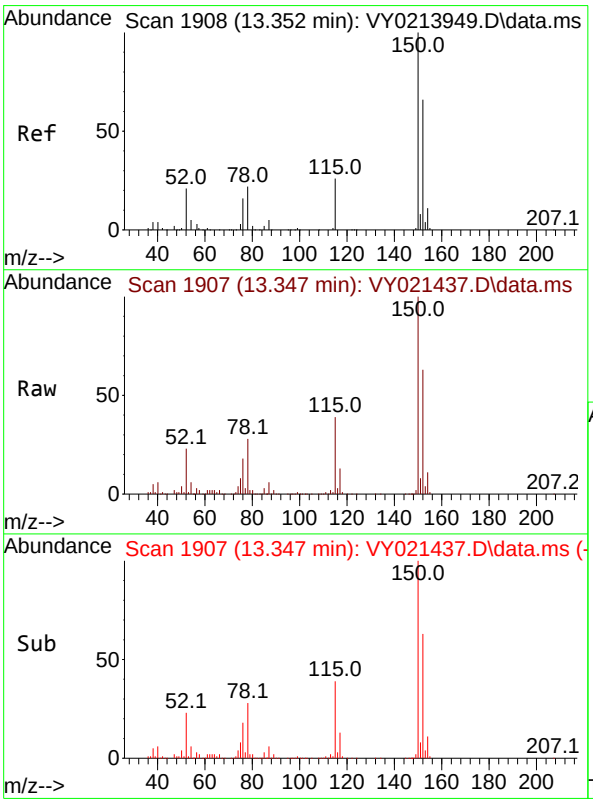
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Tgt Ion:117 Resp: 408673

Ion	Ratio	Lower	Upper
117	100		
82	58.9	44.6	67.0
119	32.6	25.4	38.0

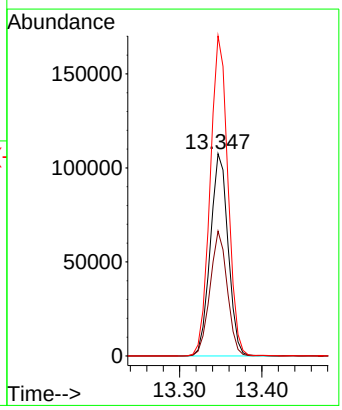




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021437.D
Acq: 06 Mar 2025 16:12

Tgt Ion:152 Resp: 161699

Ion	Ratio	Lower	Upper
152	100		
115	59.8	29.0	87.0
150	157.6	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021437.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.483	118	125	126	rBV3	10614	18094	1.20%	0.231%
2	4.616	463	475	485	rBV3	12513	39182	2.60%	0.500%
3	7.634	957	970	976	rBV	223895	540378	35.89%	6.902%
4	7.707	976	982	997	rVB	328364	744139	49.42%	9.505%
5	8.061	1030	1040	1050	rBV	206579	460100	30.56%	5.877%
6	8.616	1122	1131	1144	rBV	550142	1086089	72.13%	13.872%
7	10.103	1366	1375	1392	rBV	876211	1505663	100.00%	19.231%
8	11.414	1583	1590	1603	rBV	814659	1310550	87.04%	16.739%
9	12.408	1746	1753	1762	rBV2	627414	1003226	66.63%	12.814%
10	13.347	1895	1907	1920	rBV	688567	1030336	68.43%	13.160%
11	13.889	1990	1996	2003	rVB2	55977	91564	6.08%	1.170%

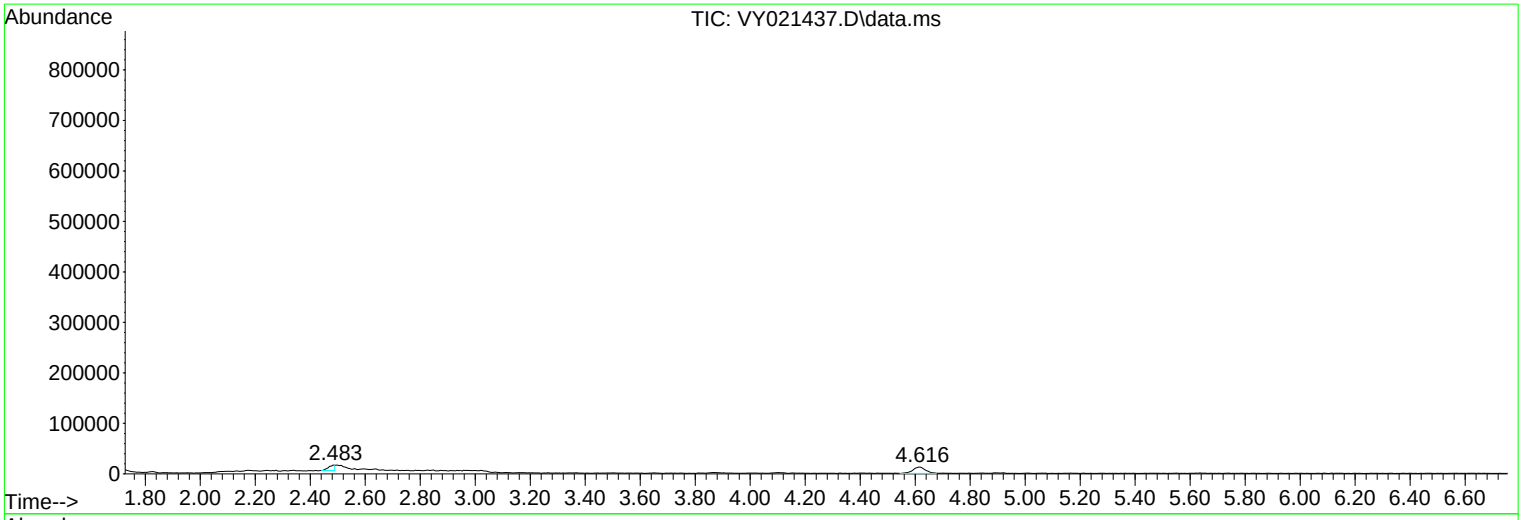
Sum of corrected areas: 7829321

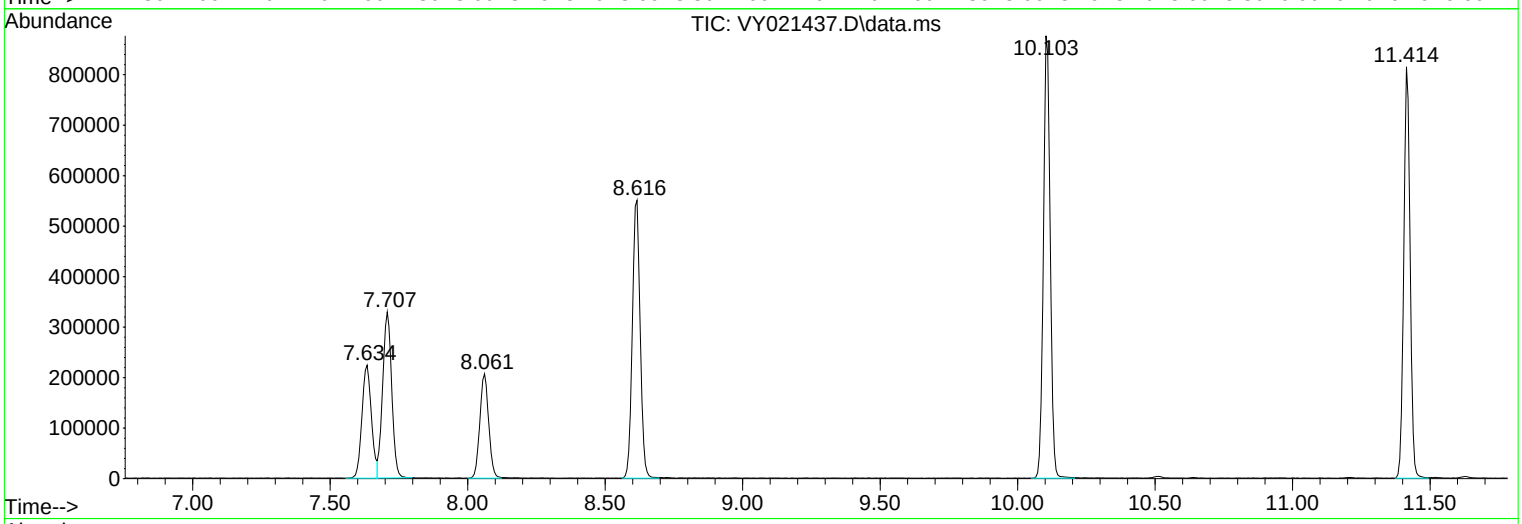
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

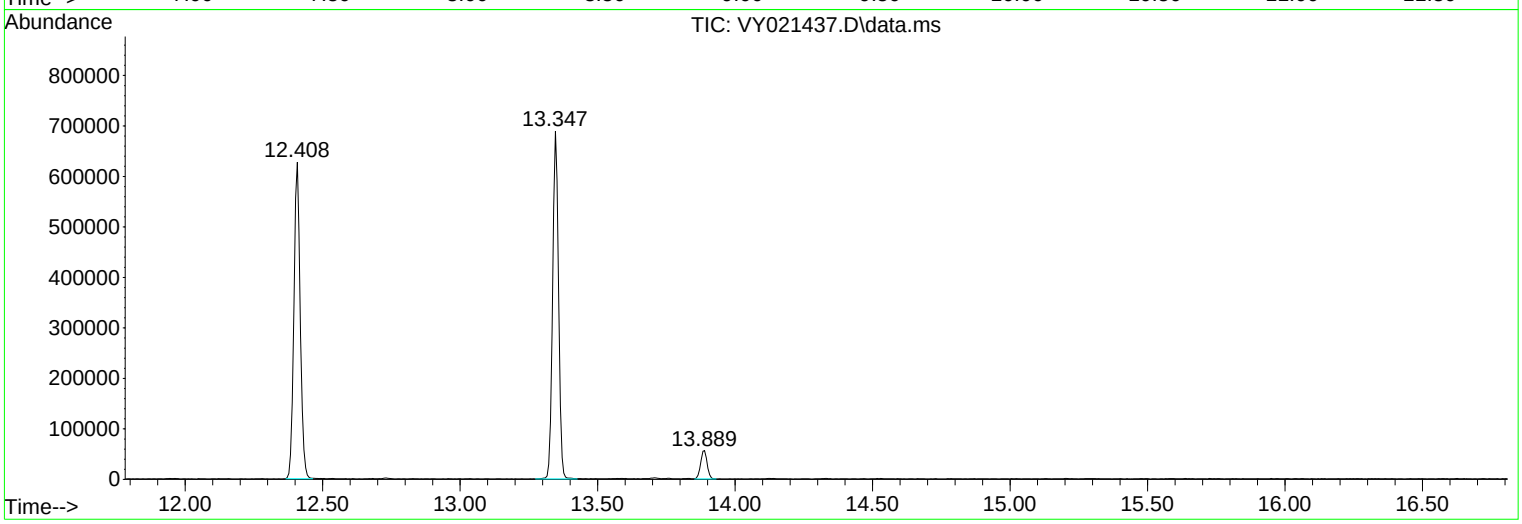
Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030625\
Data File : VY021437.D
Acq On : 06 Mar 2025 16:12
Operator : SY/MD
Sample : Q1488-05
Misc : 7.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 08 00:36:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	280904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	508130	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	440256	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	168898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	168912	56.892	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.780%			
35) Dibromofluoromethane	7.634	113	168708	50.511	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.020%			
50) Toluene-d8	10.109	98	605434	47.874	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.740%			
62) 4-Bromofluorobenzene	12.408	95	180735	42.014	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 84.020%			
Target Compounds						Qvalue
16) Acetone	3.873	43	6598m	10.189	ug/l	
17) Carbon Disulfide	4.104	76	89720	9.921	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 08 00:36:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations APPROVED

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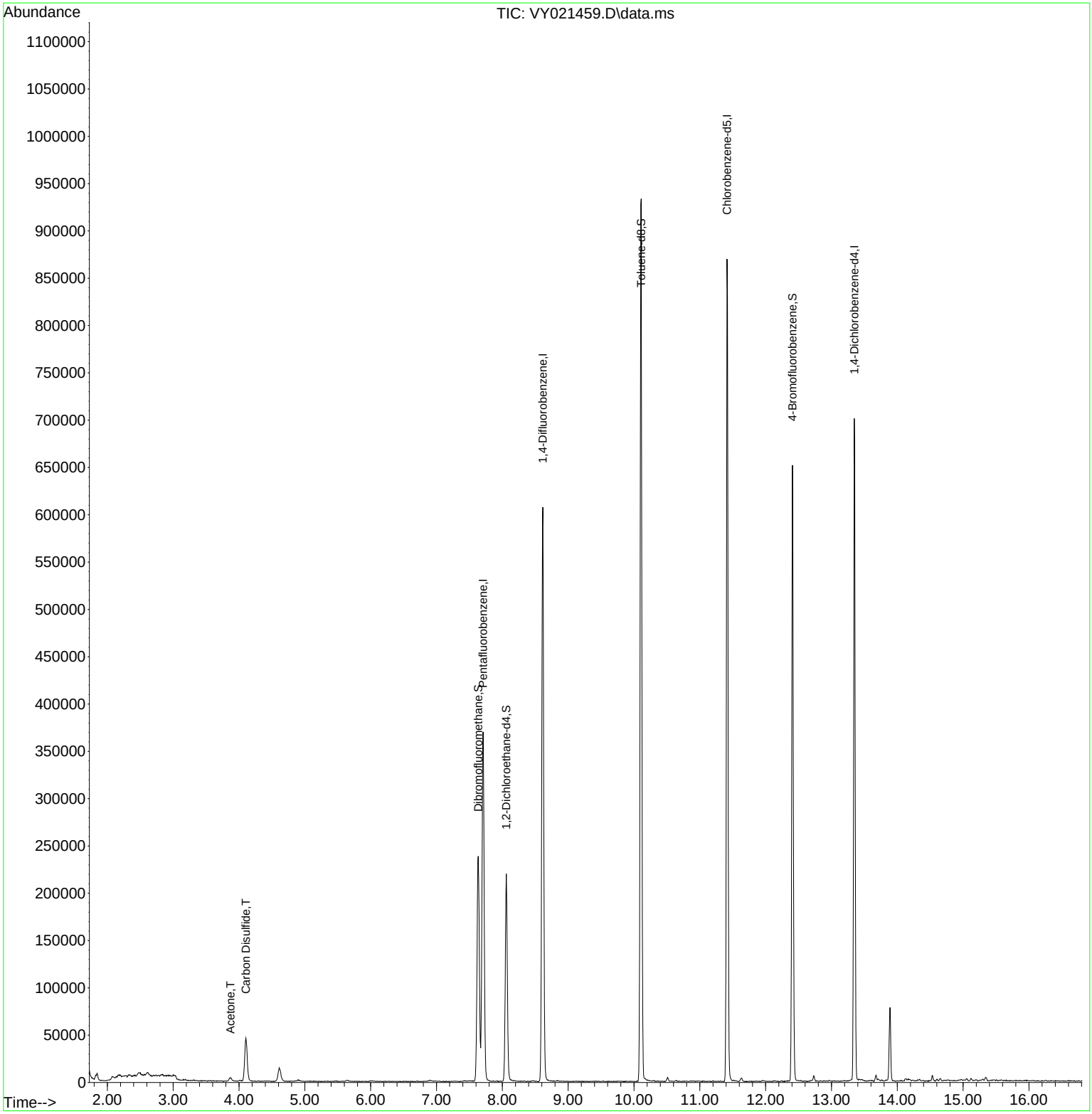
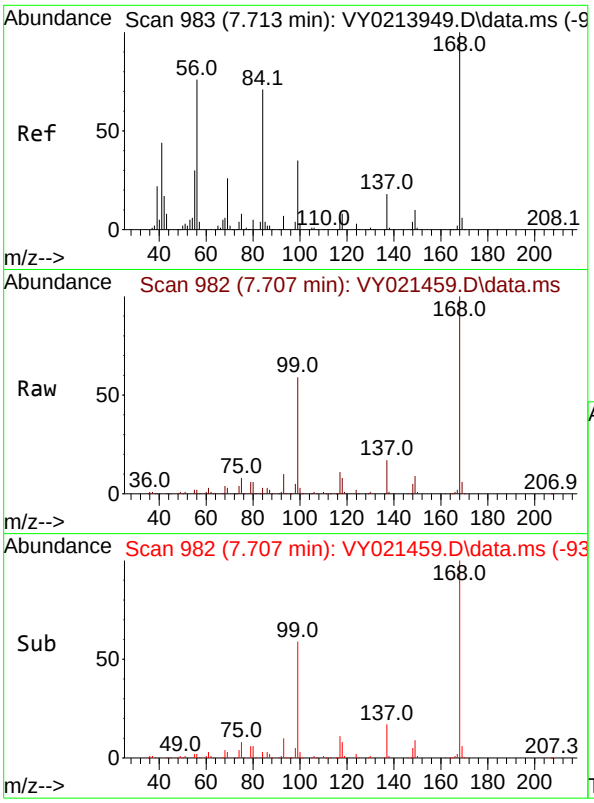
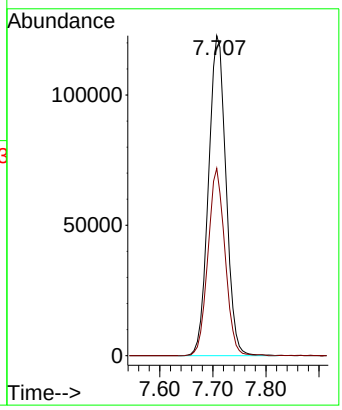




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion:168 Resp: 28090

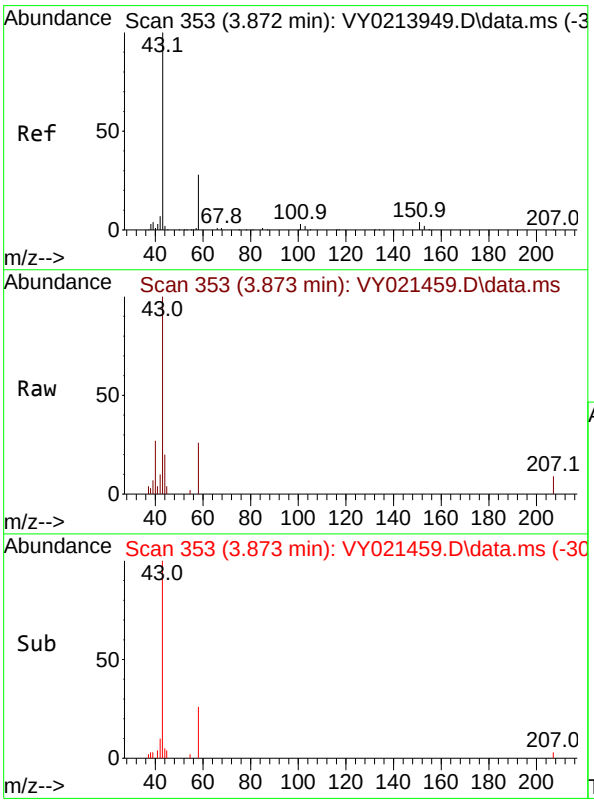
Ion	Ratio	Lower	Upper
168	100		
99	58.5	46.0	69.0



Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations
APPROVED

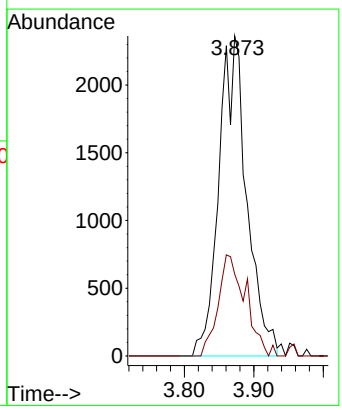
Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

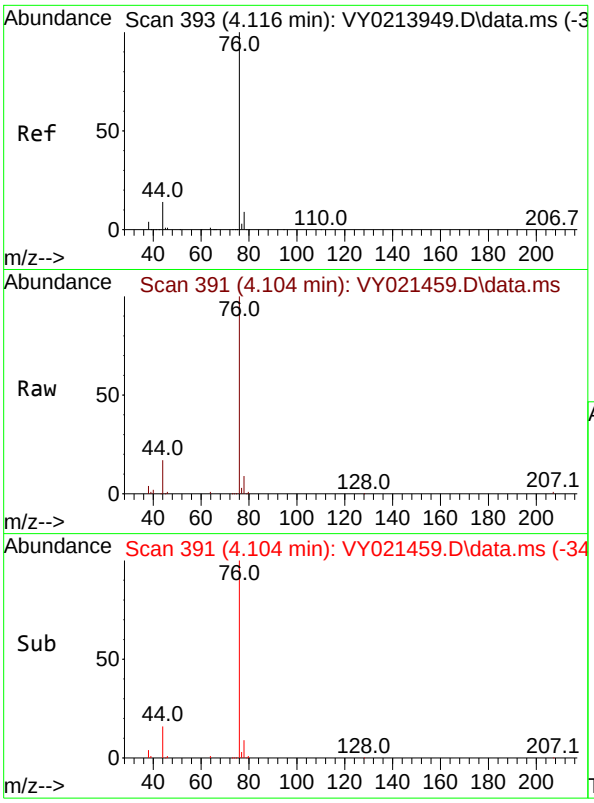


#16
Acetone
Concen: 10.189 ug/l m
RT: 3.873 min Scan# 353
Delta R.T. 0.001 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion: 43 Resp: 6598

Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.1	33.1





#17
Carbon Disulfide
Concen: 9.921 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

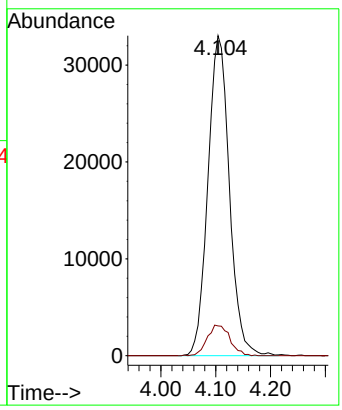
Tgt Ion: 76 Resp: 8972

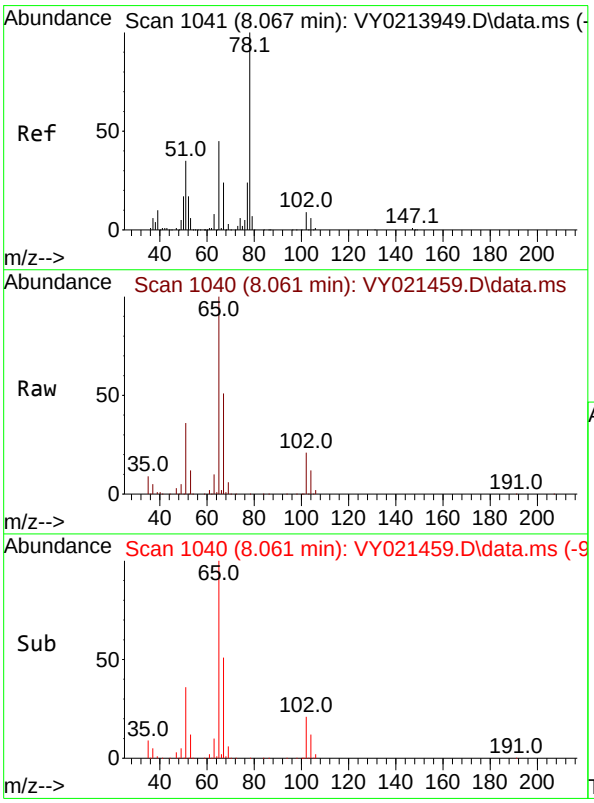
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

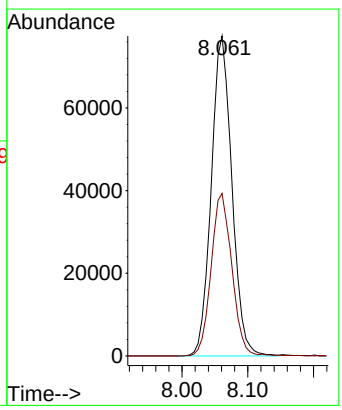


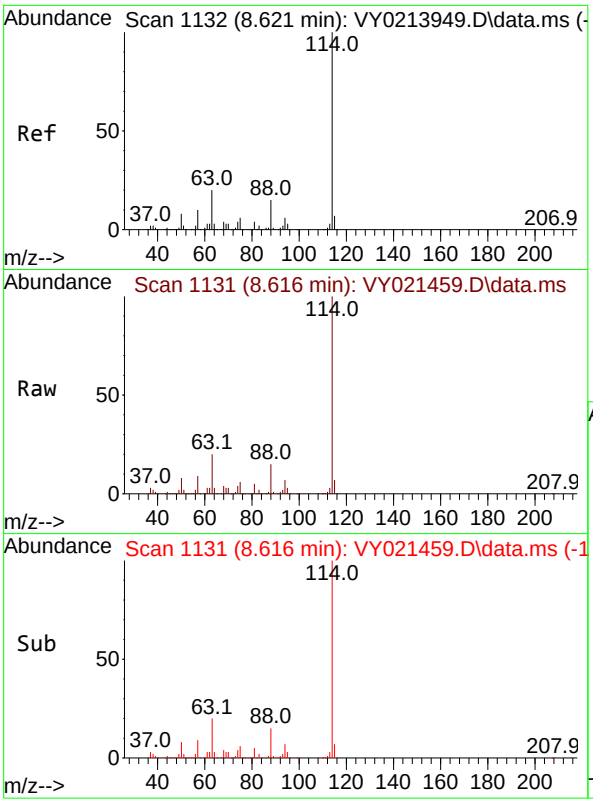


#33
1,2-Dichloroethane-d4
Concen: 56.892 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion: 65 Resp: 168912

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.8





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

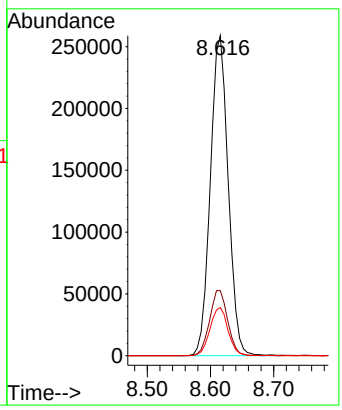
Tgt Ion:114 Resp: 50813

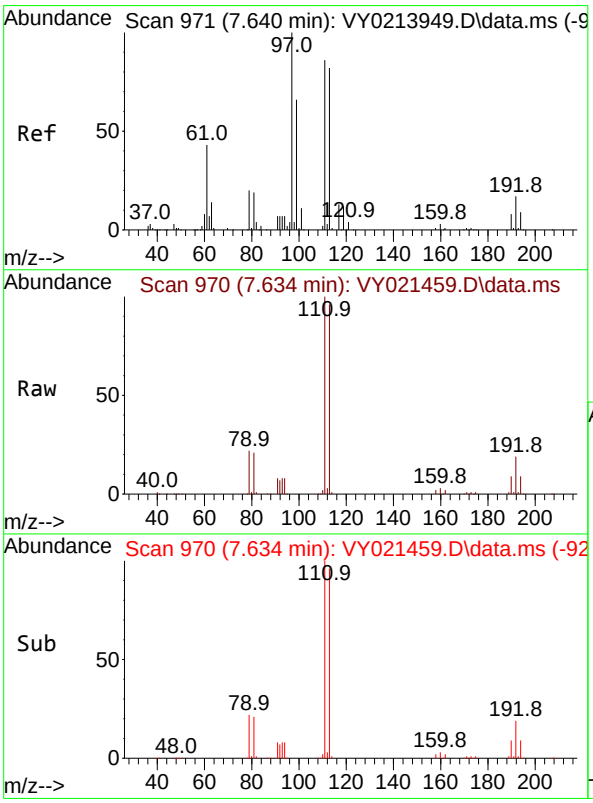
Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	15.1	0.0	30.8

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

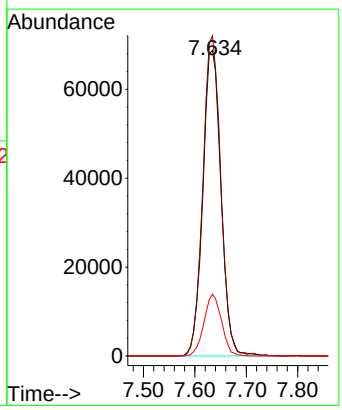


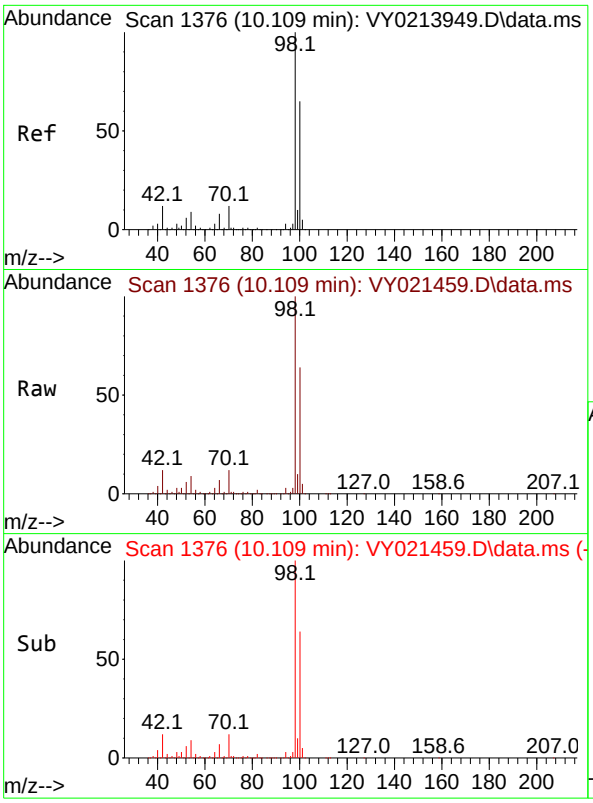


#35
Dibromofluoromethane
Concen: 50.511 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion:113 Resp: 168708

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.0	123.0
192	19.6	15.9	23.9

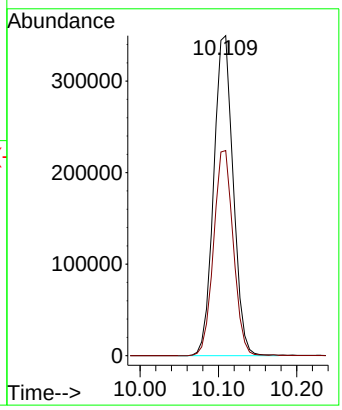




#50
Toluene-d8
Concen: 47.874 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion: 98 Resp: 60543

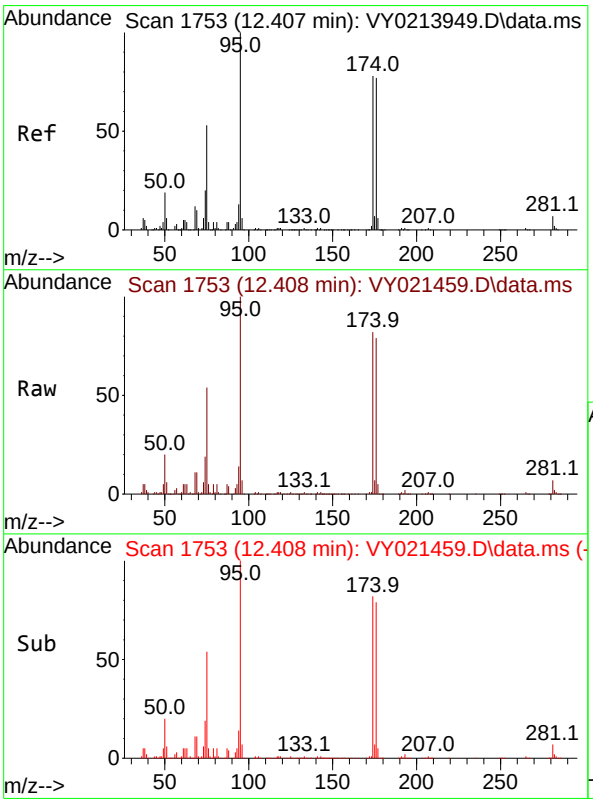
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1



Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations
APPROVED

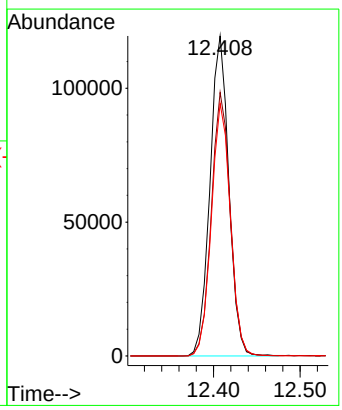
Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

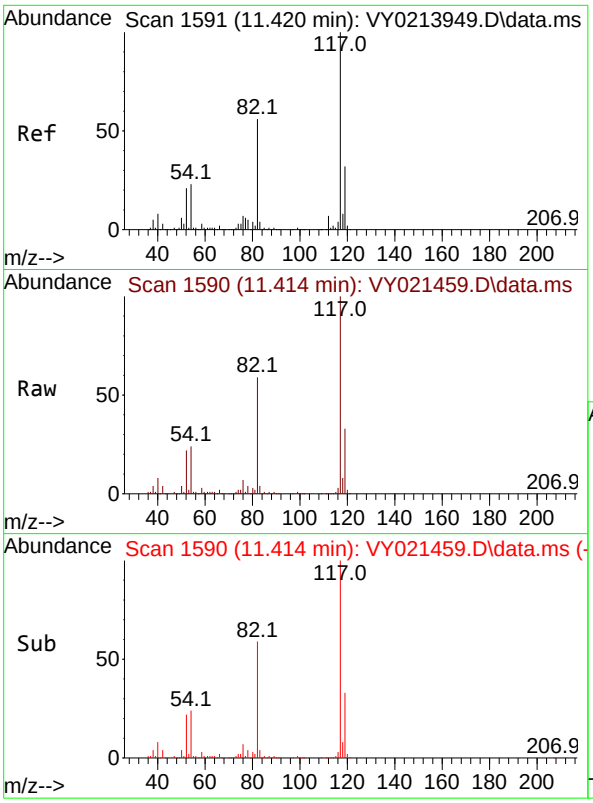


#62
4-Bromofluorobenzene
Concen: 42.014 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion: 95 Resp: 180735

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	165.0
176	79.6	0.0	160.0

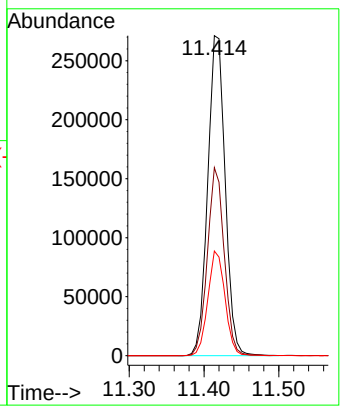




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion:117 Resp: 44025

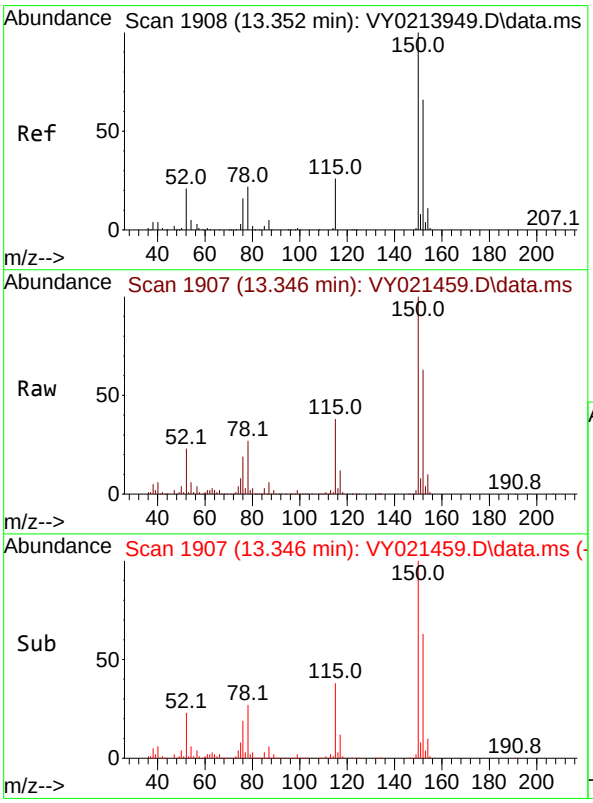
Ion	Ratio	Lower	Upper
117	100		
82	58.8	44.6	67.0
119	32.7	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Manual Integrations
APPROVED

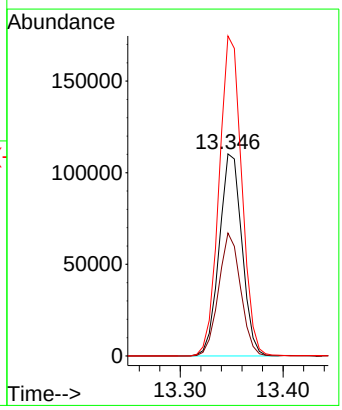
Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021459.D
Acq: 07 Mar 2025 14:28

Tgt Ion:152 Resp: 168898

Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.0	87.0
150	157.9	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021459.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.104	382	391	405	rVB	45351	121696	7.41%	1.424%
2	4.610	463	474	488	rBV3	14257	43542	2.65%	0.510%
3	7.634	959	970	976	rBV	237838	578627	35.22%	6.773%
4	7.707	976	982	998	rVB	368911	844566	51.41%	9.886%
5	8.061	1028	1040	1054	rBV	219366	474842	28.90%	5.558%
6	8.616	1119	1131	1143	rBV	607082	1207243	73.48%	14.131%
7	10.109	1368	1376	1386	rBV	932858	1642918	100.00%	19.231%
8	11.414	1582	1590	1602	rBV	869276	1399806	85.20%	16.385%
9	12.408	1745	1753	1765	rBV2	650873	1043472	63.51%	12.214%
10	13.346	1900	1907	1917	rVB	699214	1062515	64.67%	12.437%
11	13.889	1987	1996	2002	rVB2	77261	123873	7.54%	1.450%

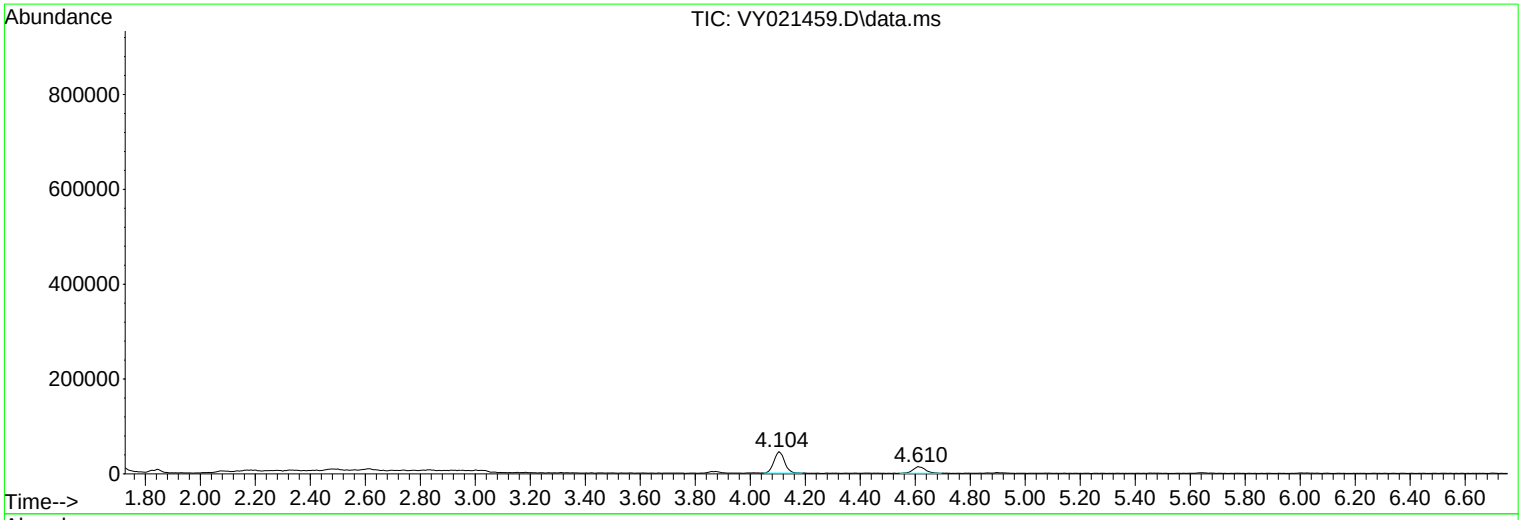
Sum of corrected areas: 8543100

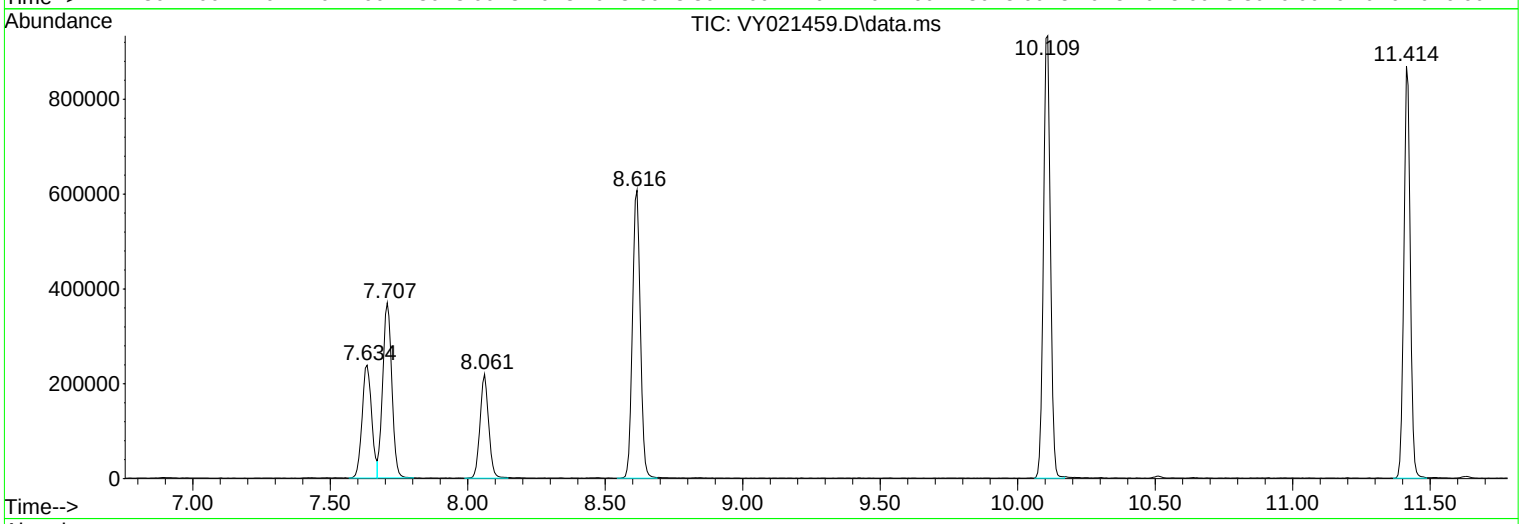
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

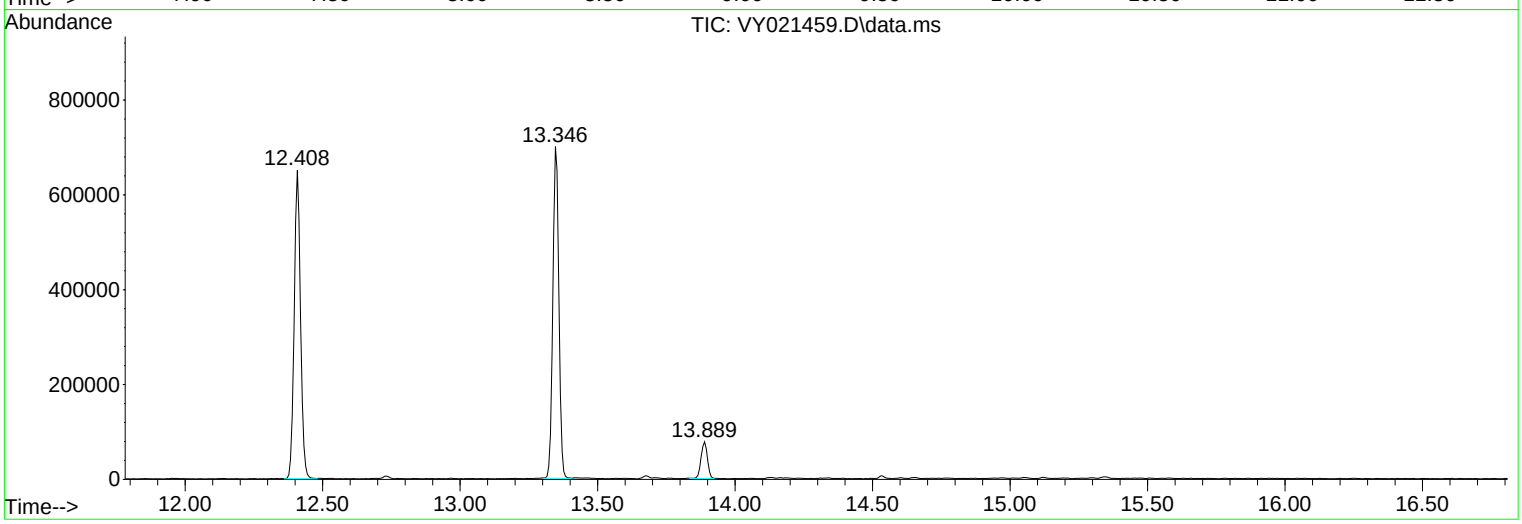
Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021459.D
Acq On : 07 Mar 2025 14:28
Operator : SY/MD
Sample : Q1488-07
Misc : 7.40g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 22:01:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

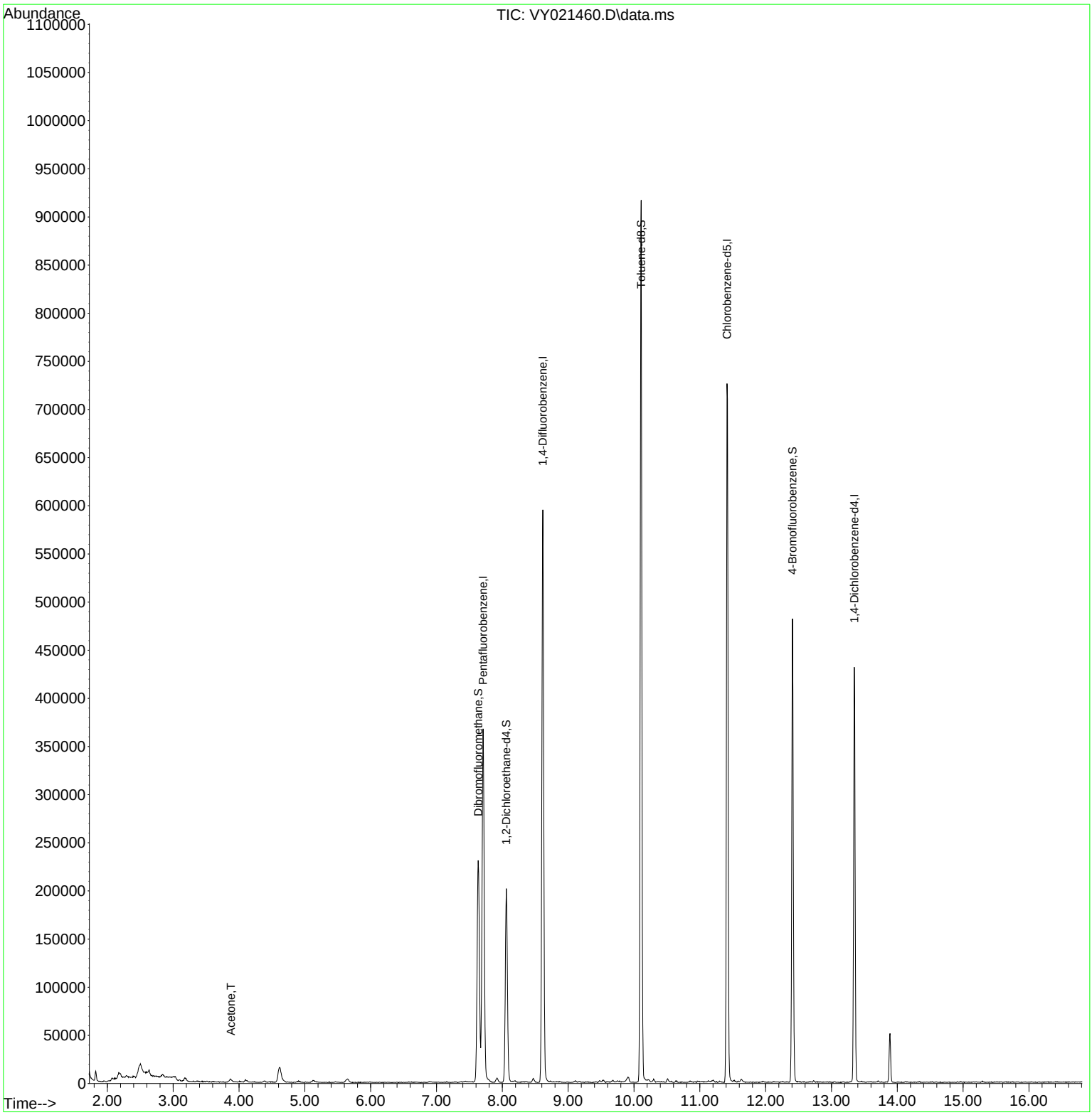
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	272187	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	479219	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	375437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	106159	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	160785	55.889	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.780%			
35) Dibromofluoromethane	7.634	113	164592	52.252	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.500%			
50) Toluene-d8	10.109	98	579055	48.551	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.100%			
62) 4-Bromofluorobenzene	12.408	95	133721	32.960	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 65.920%			
Target Compounds						Qvalue
16) Acetone	3.879	43	5515	8.789	ug/l	93

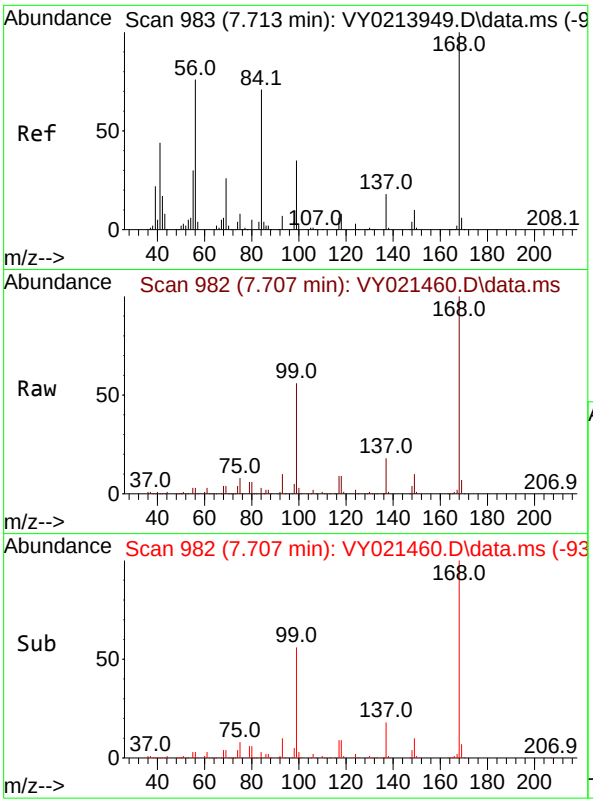
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 22:01:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



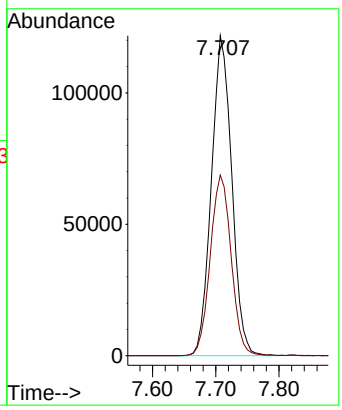


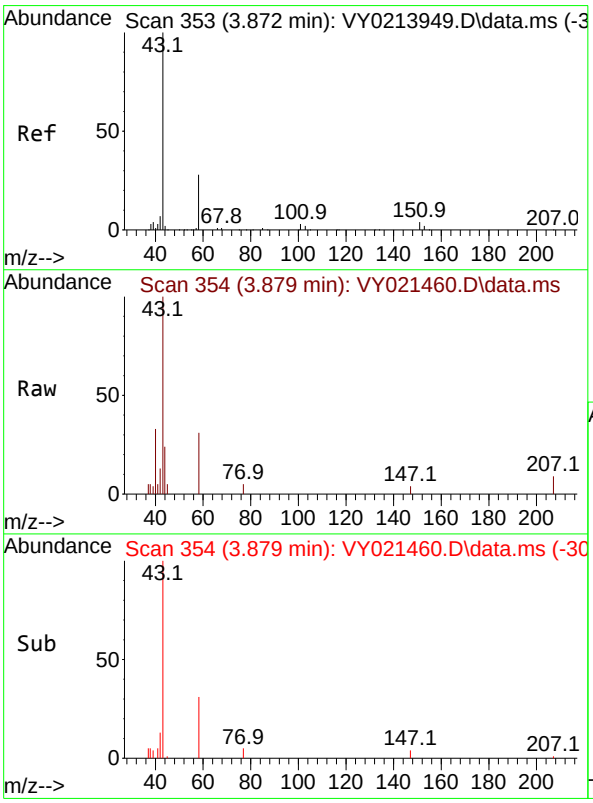
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Tgt Ion:168 Resp: 272187

Ion	Ratio	Lower	Upper
168	100		
99	56.5	46.0	69.0

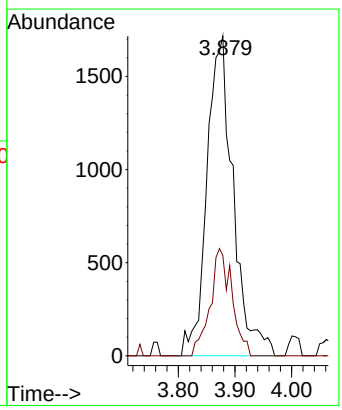


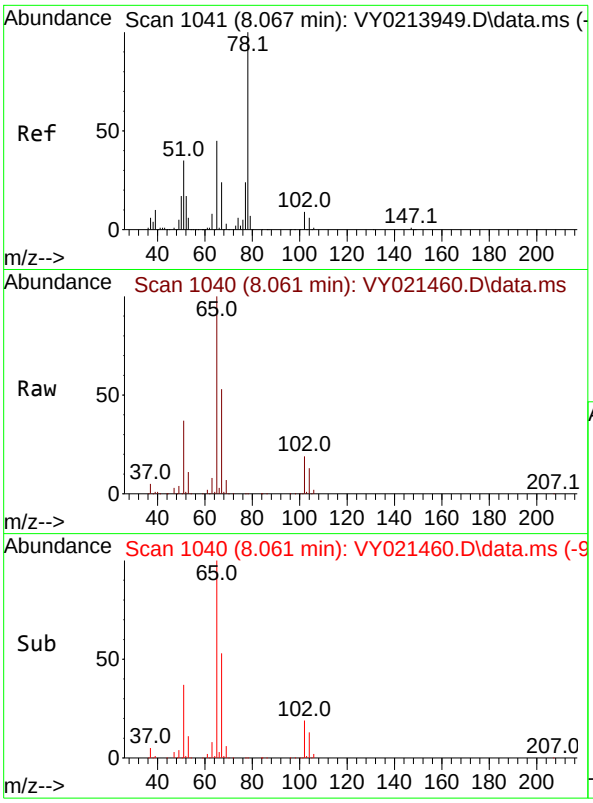


#16
Acetone
Concen: 8.789 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.007 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Tgt Ion: 43 Resp: 5515

Ion	Ratio	Lower	Upper
43	100		
58	31.4	22.1	33.1



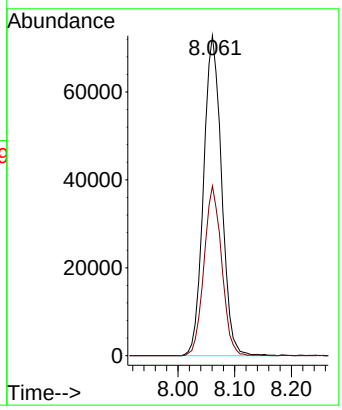


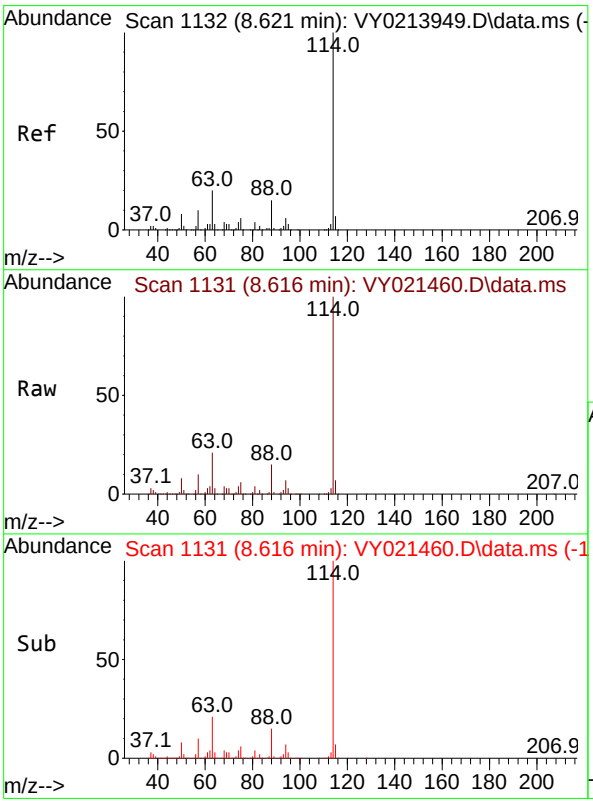
#33
1,2-Dichloroethane-d4
Concen: 55.889 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Tgt Ion: 65 Resp: 160785

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.8

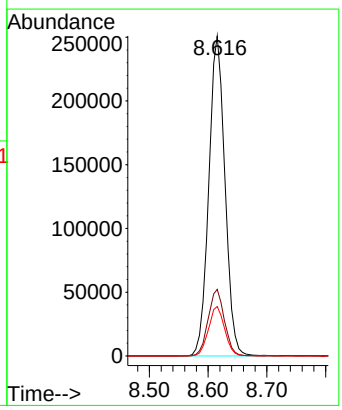


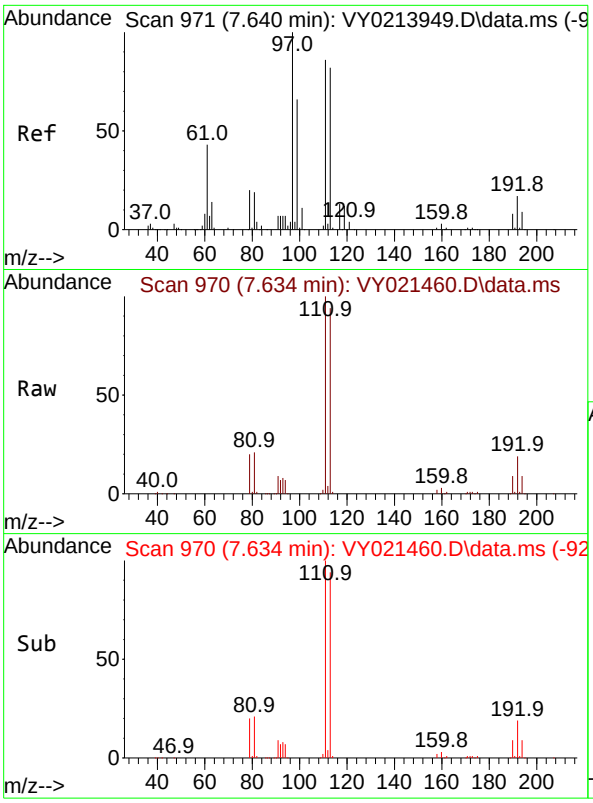


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Tgt Ion:114 Resp: 479219

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	15.4	0.0	30.8



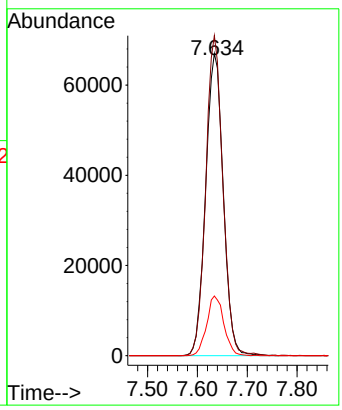


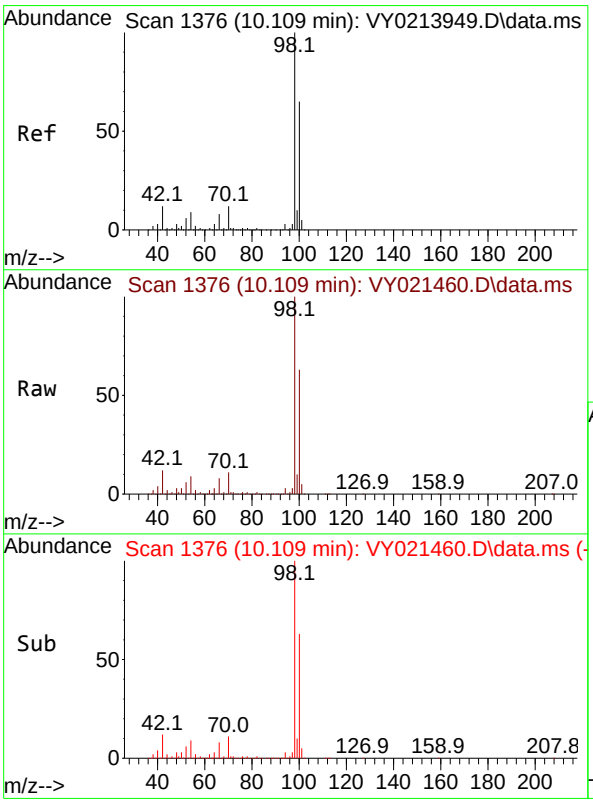
#35
Dibromofluoromethane
Concen: 52.252 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Tgt Ion:113 Resp: 164592

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.0	123.0
192	19.3	15.9	23.9

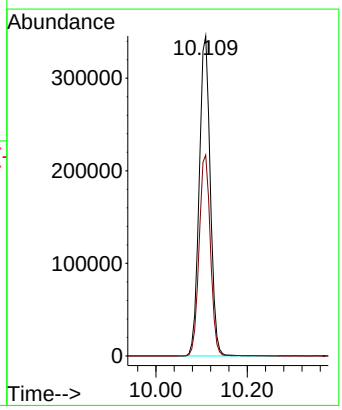


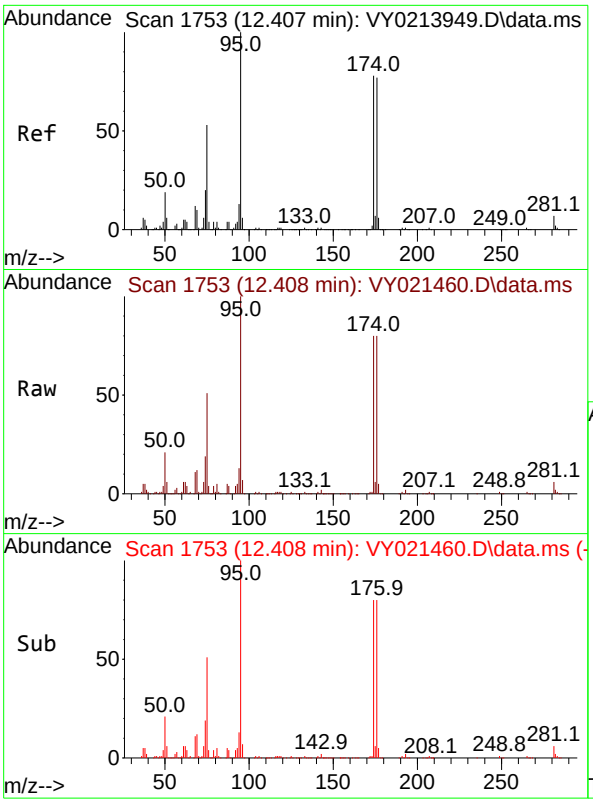


#50
Toluene-d8
Concen: 48.551 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Tgt Ion: 98 Resp: 579055

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.1	78.1



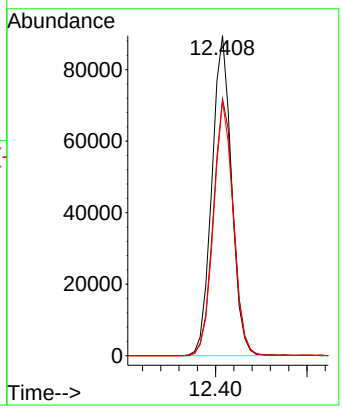


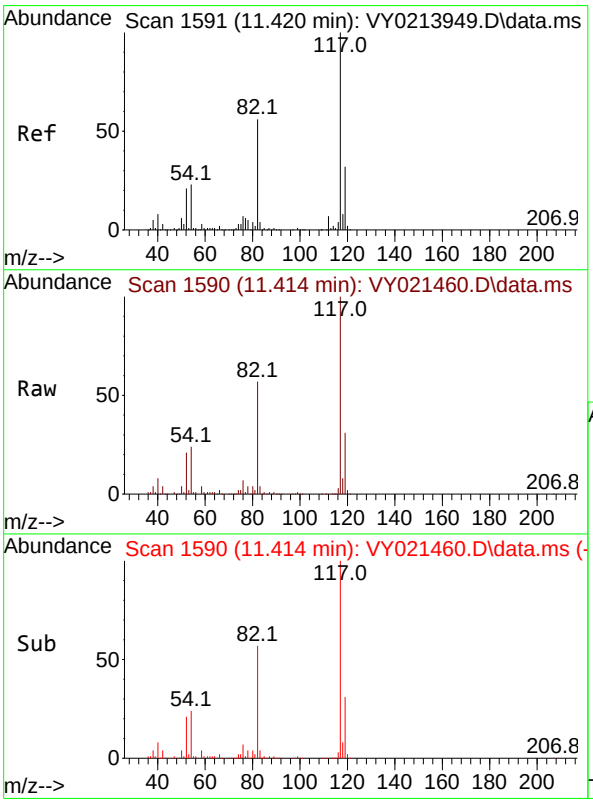
#62
4-Bromofluorobenzene
Concen: 32.960 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Tgt Ion: 95 Resp: 133721

Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	165.0
176	79.6	0.0	160.0

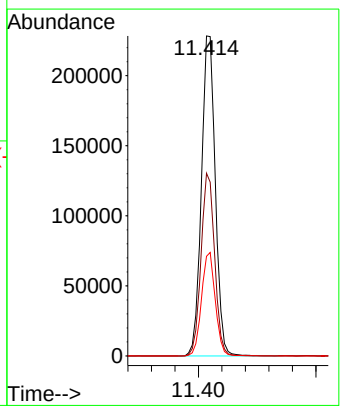


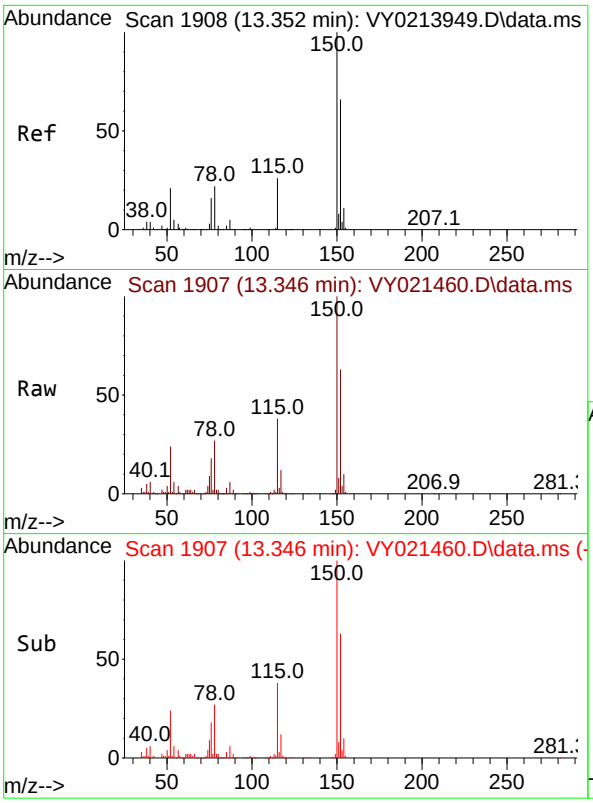


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Tgt Ion:117 Resp: 375437

Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	67.0
119	31.2	25.4	38.0



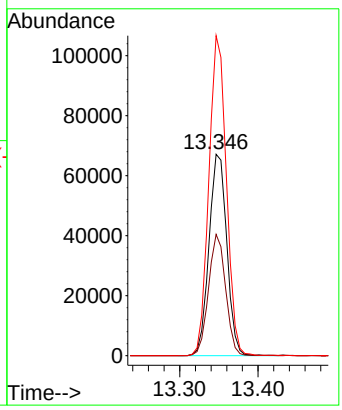


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021460.D
Acq: 07 Mar 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Tgt Ion:152 Resp: 106159

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.0	87.0
150	155.8	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021460.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.501	116	128	137	rBV10	14675	63692	4.08%	0.862%
2	4.616	463	475	492	rBV3	15735	59444	3.81%	0.804%
3	7.634	958	970	976	rBV2	230297	561302	35.99%	7.594%
4	7.707	976	982	994	rVB	364320	823642	52.81%	11.143%
5	8.061	1030	1040	1052	rBV	201221	450805	28.90%	6.099%
6	8.616	1122	1131	1145	rBV	594633	1151235	73.81%	15.575%
7	10.109	1368	1376	1388	rBV	915854	1559733	100.00%	21.102%
8	11.414	1583	1590	1604	rBV	725855	1196768	76.73%	16.191%
9	12.408	1745	1753	1765	rBV2	481424	774375	49.65%	10.477%
10	13.346	1891	1907	1920	rBV	431378	670227	42.97%	9.068%
11	13.889	1990	1996	2003	rVB	50654	80153	5.14%	1.084%

Sum of corrected areas: 7391376

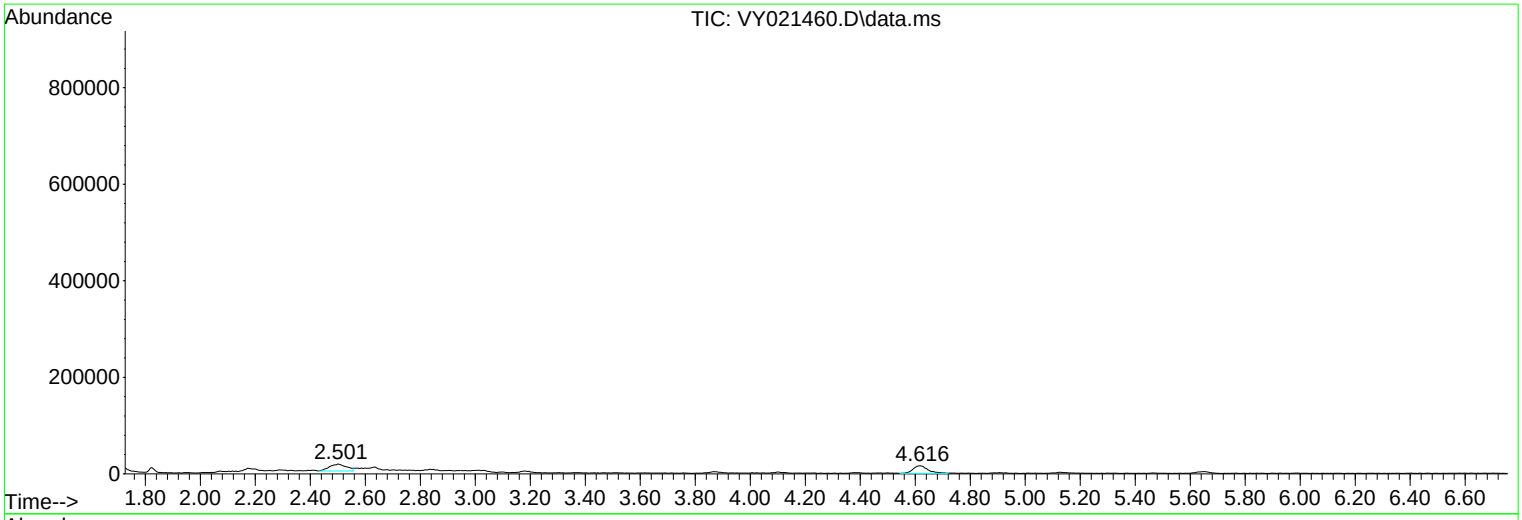
Sample Results: **VY021460.D**

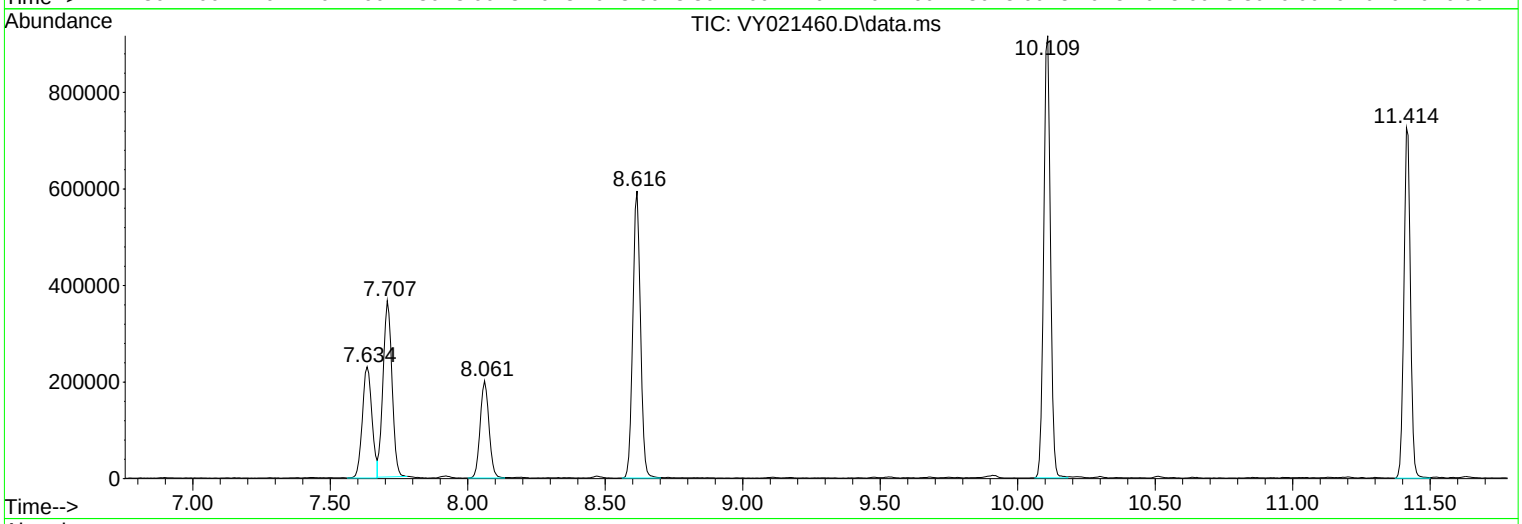
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

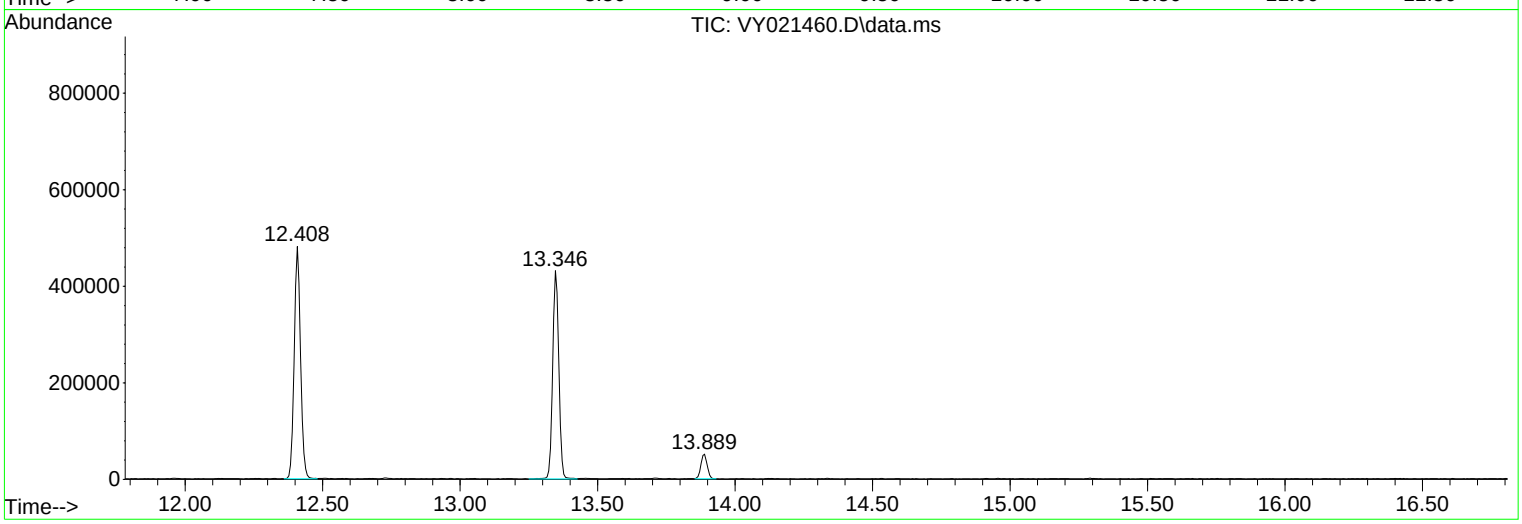
Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021460.D
Acq On : 07 Mar 2025 14:52
Operator : SY/MD
Sample : Q1488-09
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 22:02:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

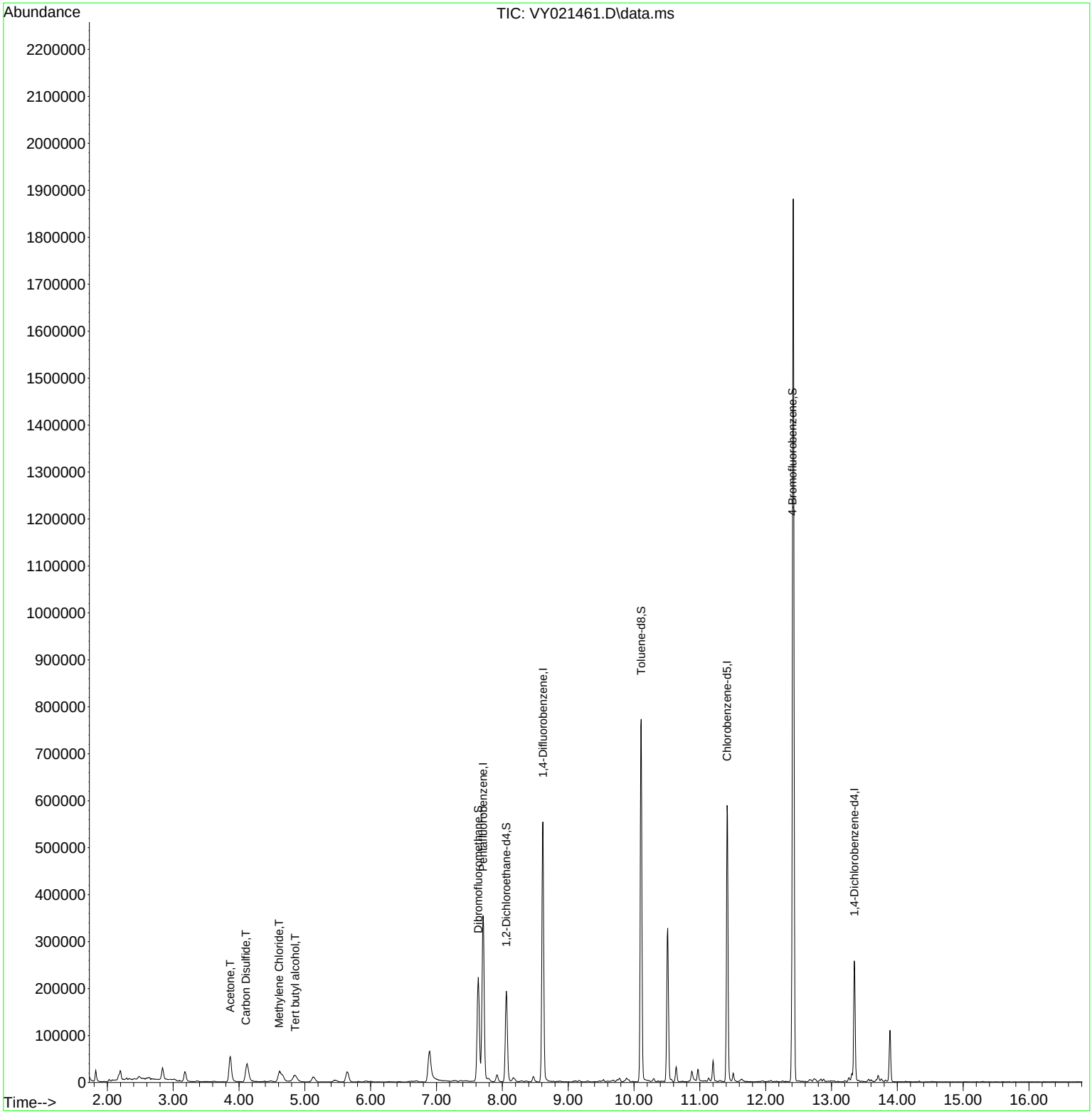
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	263229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	450669	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	301719	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	63186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	153458	55.158	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.320%			
35) Dibromofluoromethane	7.634	113	154689	52.219	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.440%			
50) Toluene-d8	10.109	98	496396	44.257	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 88.520%			
62) 4-Bromofluorobenzene	12.408	95	100255	26.277	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 52.560%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	27141	140.139	ug/l	97
16) Acetone	3.867	43	94589	155.877	ug/l	92
17) Carbon Disulfide	4.104	76	10898	1.286	ug/l	98
20) Methylene Chloride	4.610	84	13740	4.314	ug/l	96

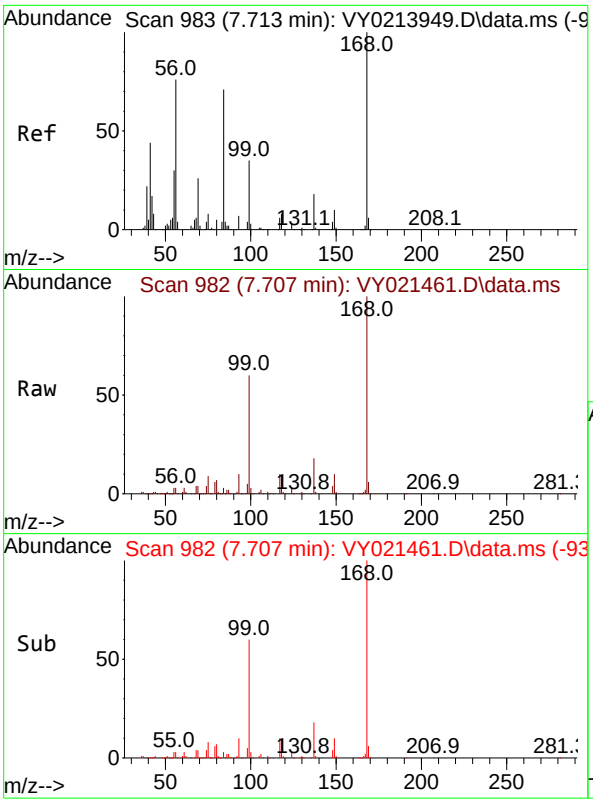
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 22:02:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



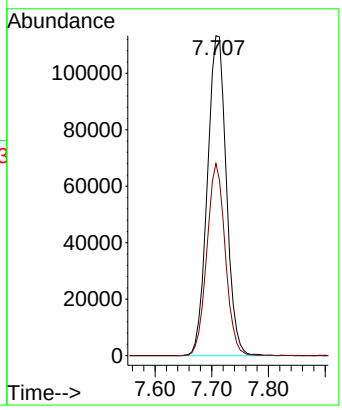


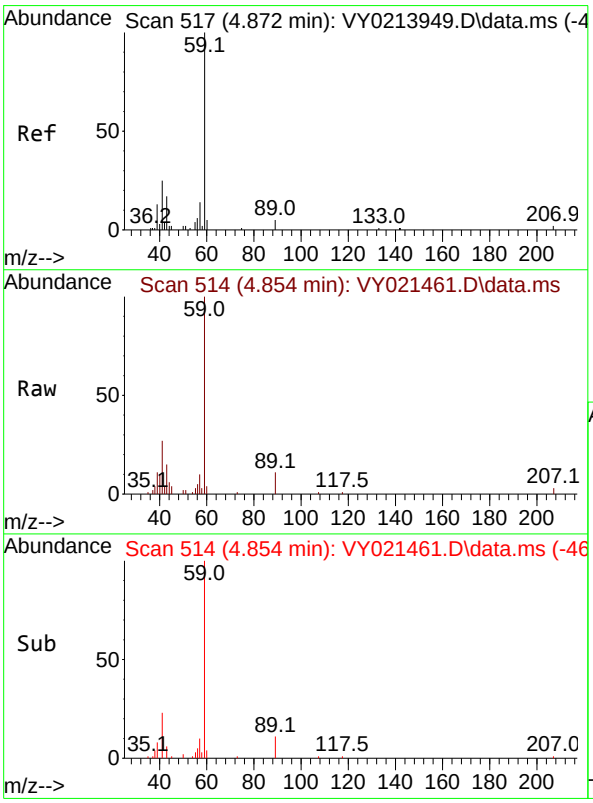
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion:168 Resp: 263229

Ion	Ratio	Lower	Upper
168	100		
99	60.0	46.0	69.0

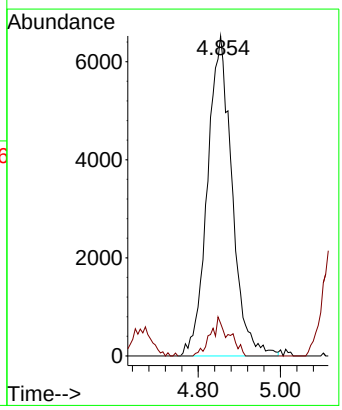


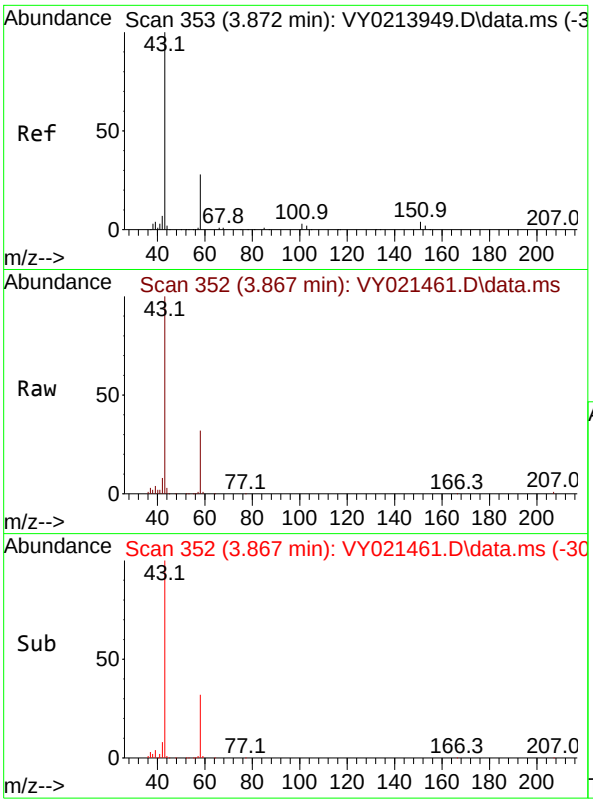


#11
Tert butyl alcohol
Concen: 140.139 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.018 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion: 59 Resp: 27141

Ion	Ratio	Lower	Upper
59	100		
57	9.1	8.2	12.4



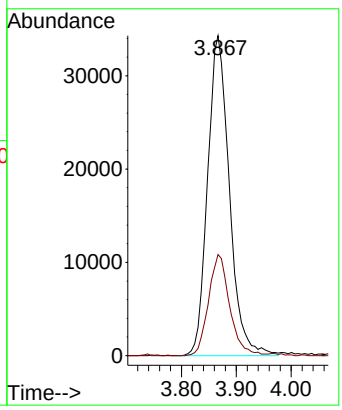


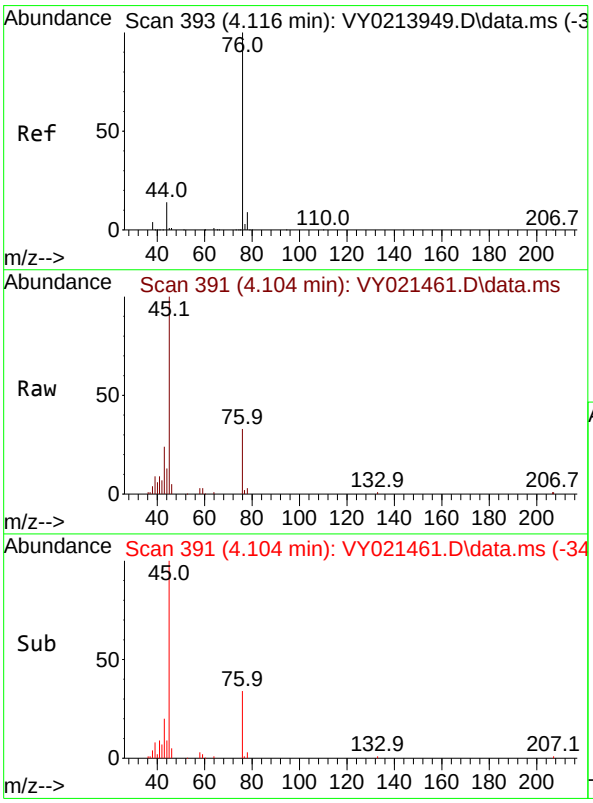
#16
Acetone
Concen: 155.877 ug/l
RT: 3.867 min Scan# 3
Delta R.T. -0.005 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion: 43 Resp: 94589

Ion	Ratio	Lower	Upper
43	100		
58	31.6	22.1	33.1

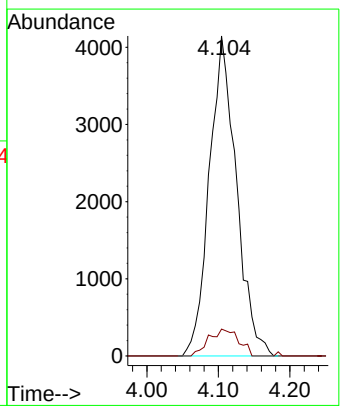


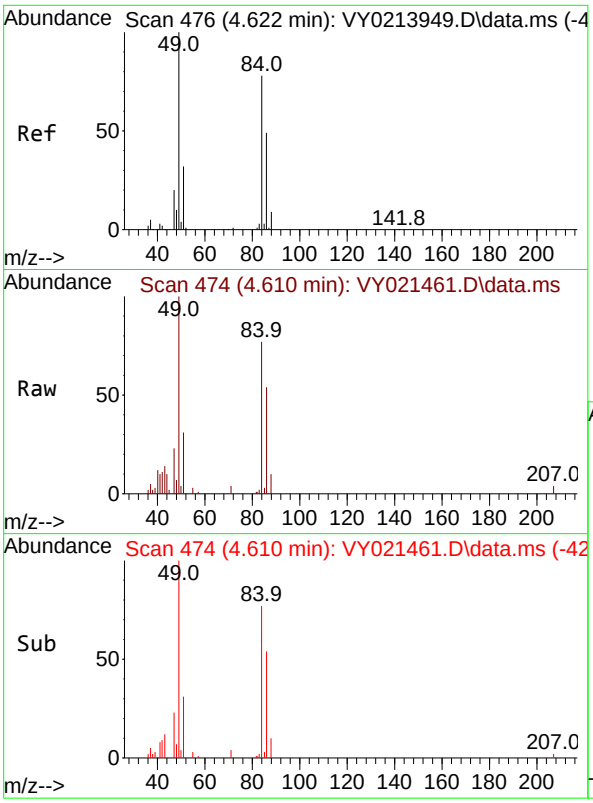


#17
Carbon Disulfide
Concen: 1.286 ug/l
RT: 4.104 min Scan# 391
Delta R.T. -0.012 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion: 76 Resp: 10898

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.0



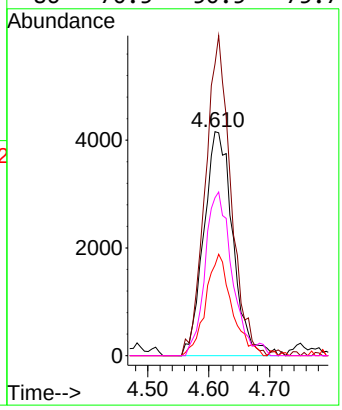


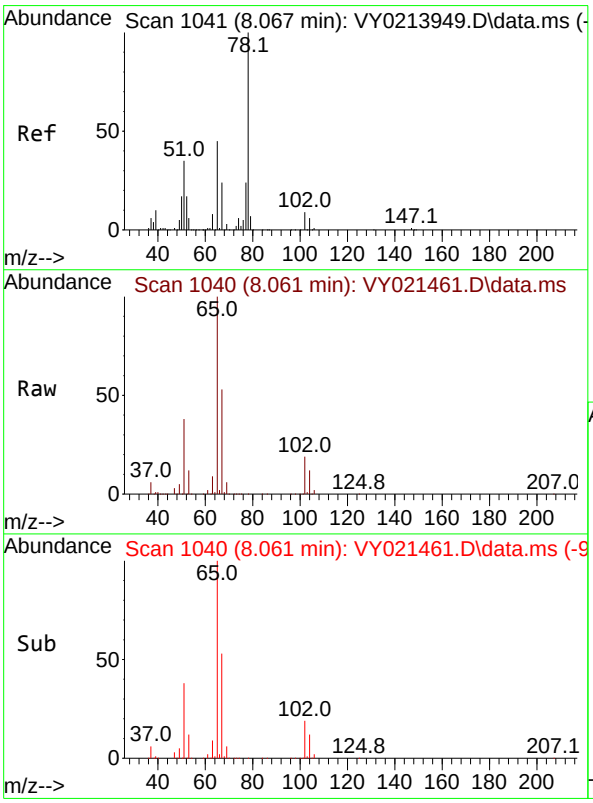
#20
Methylene Chloride
Concen: 4.314 ug/l
RT: 4.610 min Scan# 4
Delta R.T. -0.012 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion: 84 Resp: 13740

Ion	Ratio	Lower	Upper
84	100		
49	130.2	102.0	153.0
51	40.4	33.0	49.6
86	70.5	50.5	75.7

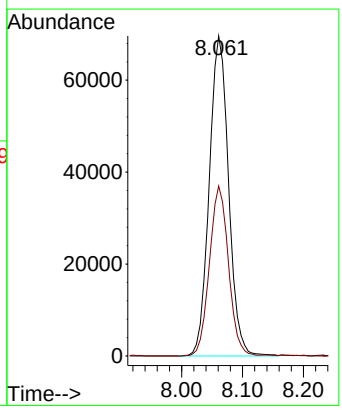


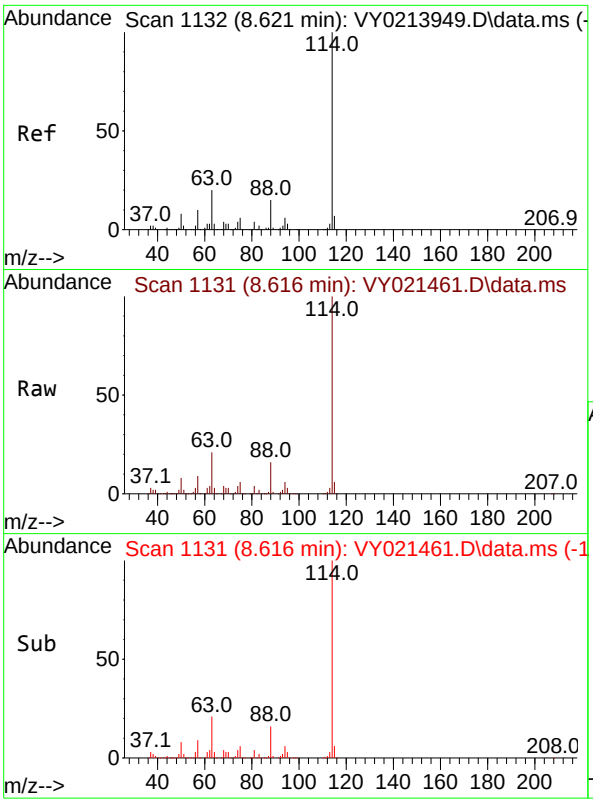


#33
1,2-Dichloroethane-d4
Concen: 55.158 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion: 65 Resp: 153458

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	102.8



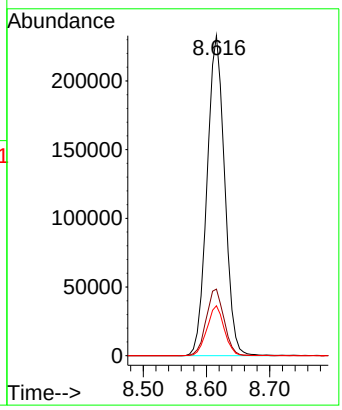


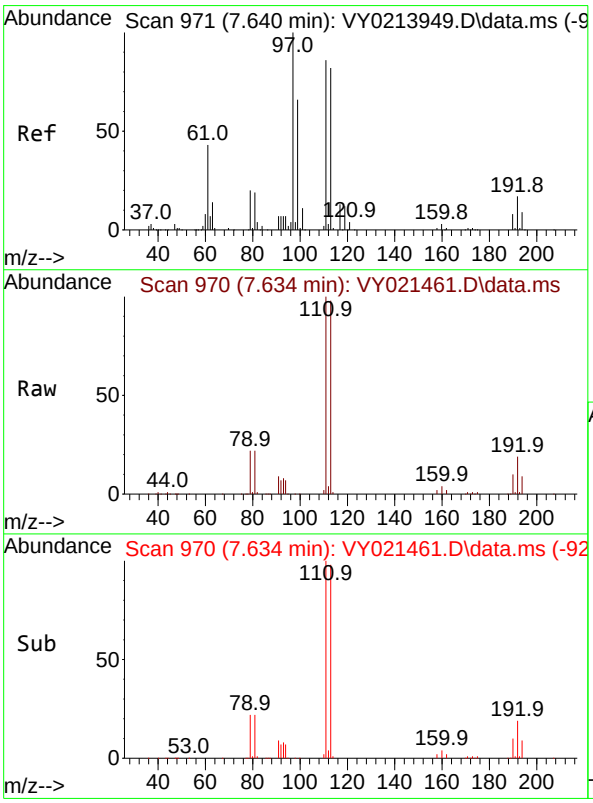
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion:114 Resp: 450669

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	15.6	0.0	30.8

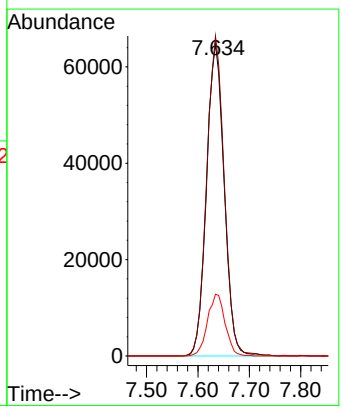


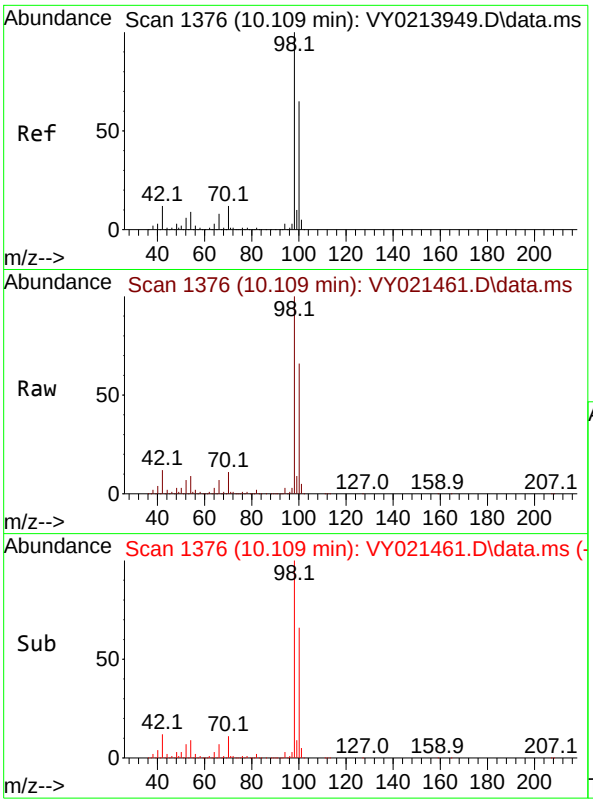


#35
Dibromofluoromethane
Concen: 52.219 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion:113 Resp: 154689

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.0	123.0
192	19.7	15.9	23.9



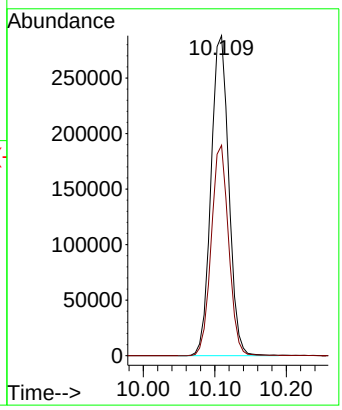


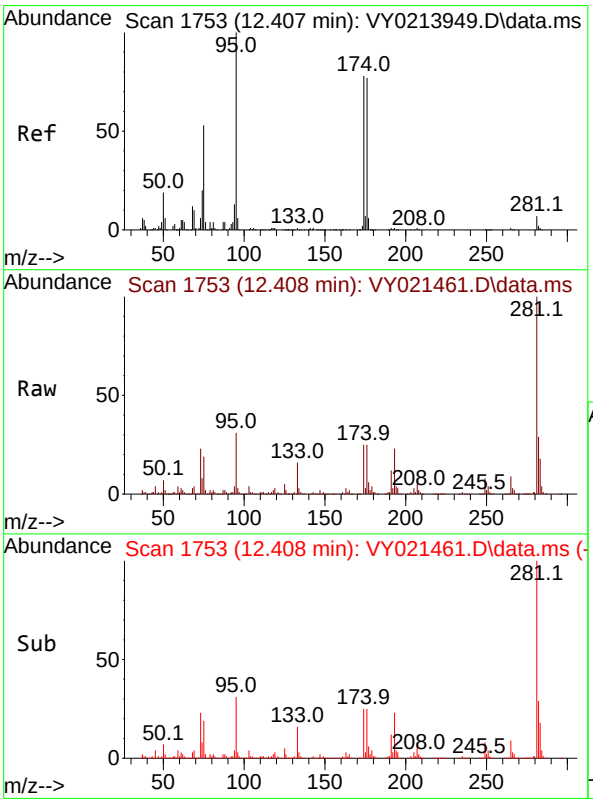
#50
Toluene-d8
Concen: 44.257 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion: 98 Resp: 496396

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.1	78.1

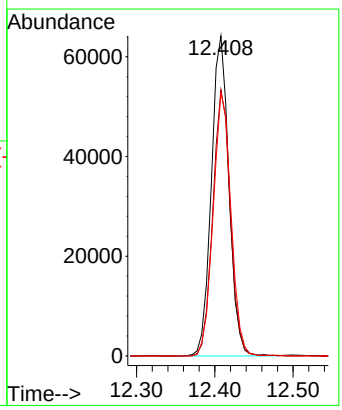


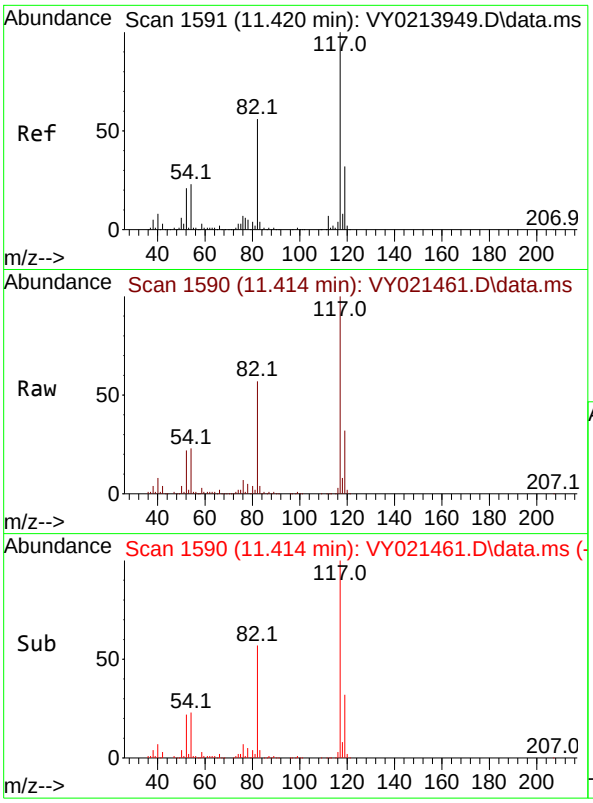


#62
4-Bromofluorobenzene
Concen: 26.277 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion: 95 Resp: 100255

Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	165.0
176	83.4	0.0	160.0



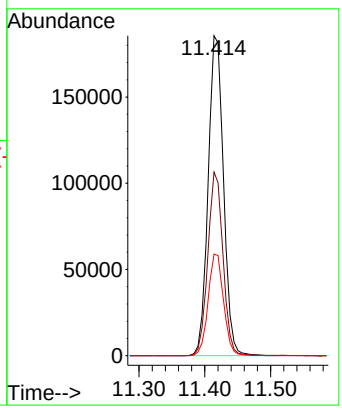


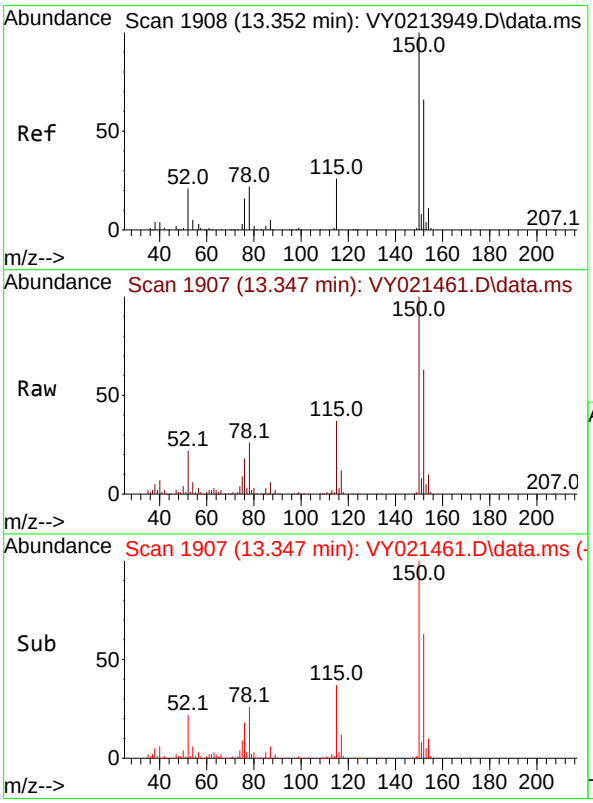
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Tgt Ion:117 Resp: 301719

Ion	Ratio	Lower	Upper
117	100		
82	57.4	44.6	67.0
119	31.8	25.4	38.0

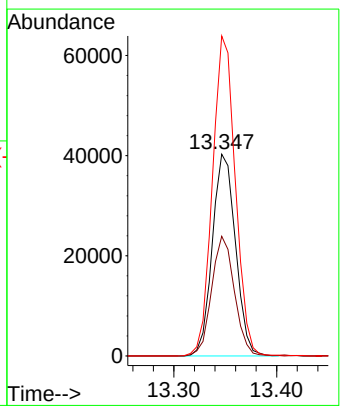




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021461.D
Acq: 07 Mar 2025 15:15

Tgt Ion:152 Resp: 63186

Ion	Ratio	Lower	Upper
152	100		
115	58.4	29.0	87.0
150	156.6	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021461.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	12	17	30	rVB2	23838	39174	1.25%	0.366%
2	2.196	69	78	85	rBV2	19768	47975	1.53%	0.448%
3	2.836	177	183	190	rBV2	24136	47944	1.53%	0.448%
4	3.178	233	239	250	rVB2	20630	49229	1.57%	0.460%
5	3.867	342	352	364	rBV	53746	147687	4.71%	1.379%
6	4.123	382	394	407	rBV2	38467	132327	4.22%	1.235%
7	4.616	462	475	493	rBV3	22645	110179	3.51%	1.029%
8	4.848	501	513	530	rVB4	14207	65611	2.09%	0.613%
9	5.641	633	643	660	rVB2	21790	72505	2.31%	0.677%
10	6.896	837	849	870	rBV	65548	251631	8.02%	2.349%
11	7.634	959	970	976	rBV	221432	535628	17.07%	5.000%
12	7.707	976	982	992	rVB	348133	794802	25.33%	7.420%
13	7.921	1009	1017	1024	rBV2	14689	33130	1.06%	0.309%
14	8.061	1030	1040	1050	rBV	193374	433763	13.82%	4.049%
15	8.616	1121	1131	1145	rBV	553827	1092057	34.80%	10.195%
16	10.109	1365	1376	1389	rBV	772559	1353527	43.13%	12.636%
17	10.512	1434	1442	1449	rBV	326588	595014	18.96%	5.555%
18	10.640	1457	1463	1471	rVB3	31842	52733	1.68%	0.492%
19	10.877	1497	1502	1513	rBV	20745	43236	1.38%	0.404%
20	10.975	1513	1518	1524	rVB2	24130	38960	1.24%	0.364%
21	11.201	1549	1555	1561	rVB	42886	64814	2.07%	0.605%
22	11.414	1582	1590	1601	rBV	588643	962620	30.67%	8.986%
23	11.505	1601	1605	1616	rVB	18393	31574	1.01%	0.295%
24	12.420	1745	1755	1765	rBV	1880270	3138277	100.00%	29.297%
25	13.347	1902	1907	1915	rVB	254945	402067	12.81%	3.753%
26	13.889	1989	1996	2003	rVB	109601	175526	5.59%	1.639%

Sum of corrected areas: 10711990

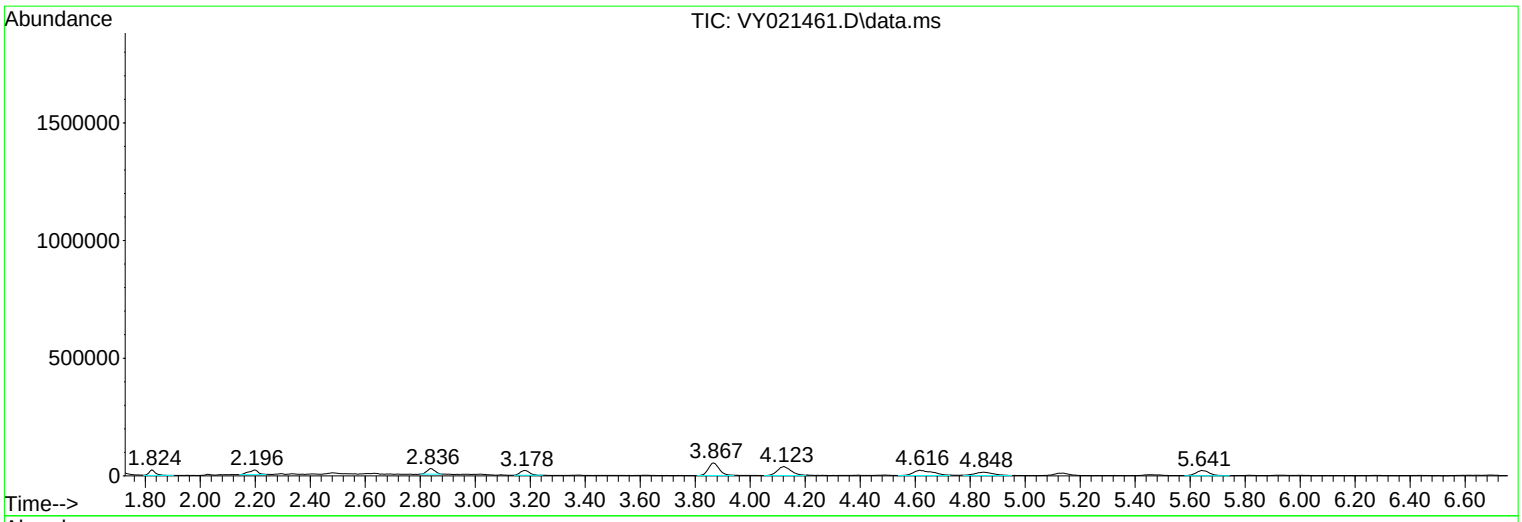
Sample Results: **VY021461.D**

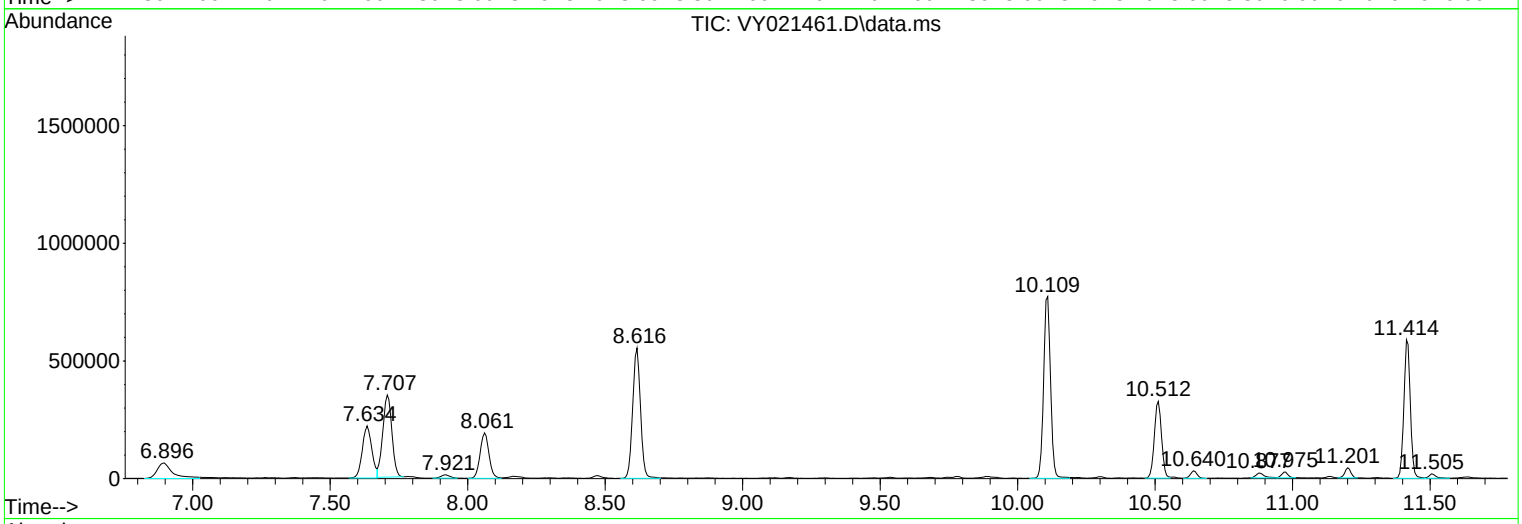
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

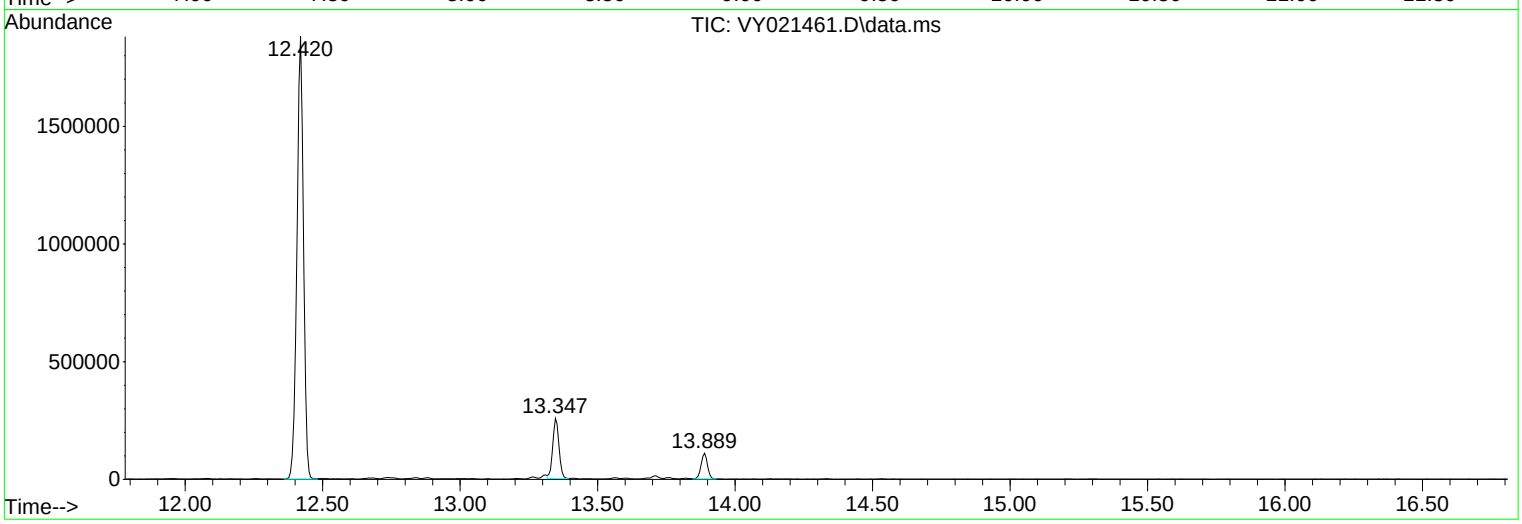
Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

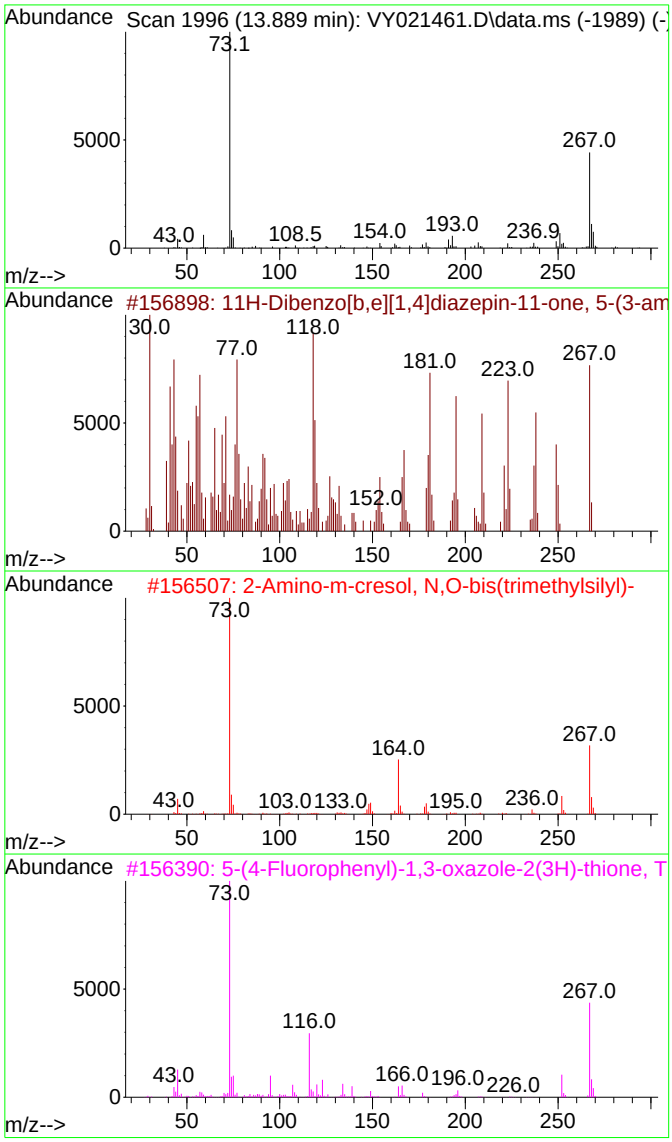
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

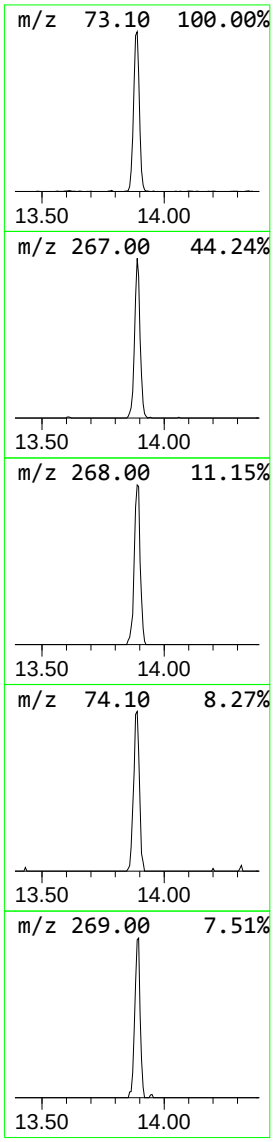
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	21.83 ug/l	175526	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	95
2	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	59
3	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	59
4	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	56
5	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021461.D
Acq On : 07 Mar 2025 15:15
Operator : SY/MD
Sample : Q1488-11
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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
11H-Dibenzo[b,e...	13.889	21.8	ug/l	175526	4	13.347	402067	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

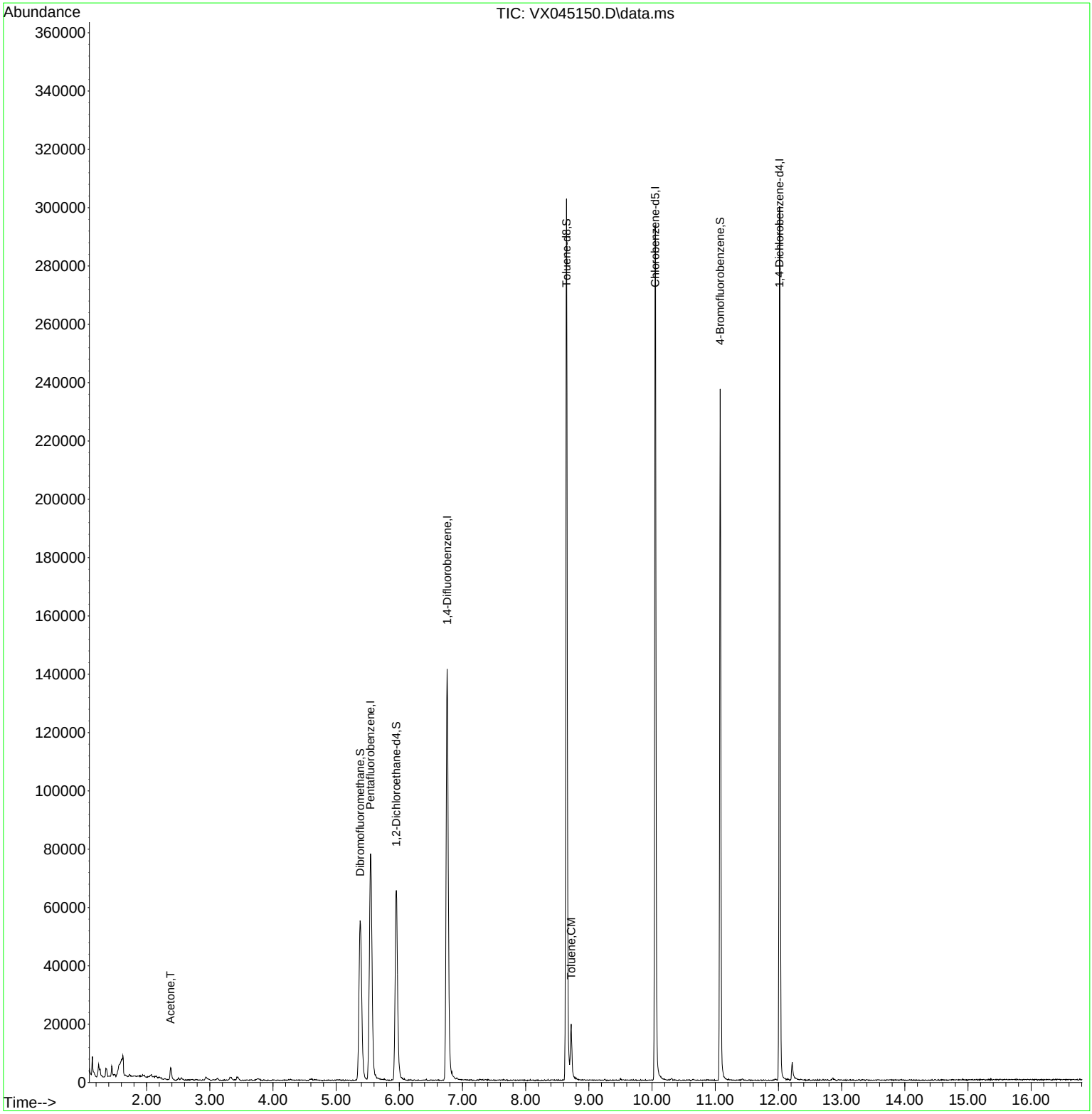
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	72598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	143720	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	132869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61188	52.987	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.980%			
35) Dibromofluoromethane	5.379	113	49182	51.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.360%			
50) Toluene-d8	8.647	98	177583	50.971	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.940%			
62) 4-Bromofluorobenzene	11.079	95	62689	54.300	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.600%			
Target Compounds						Qvalue
16) Acetone	2.380	43	4804	8.966	ug/l	97
52) Toluene	8.720	92	6706	2.746	ug/l	99

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

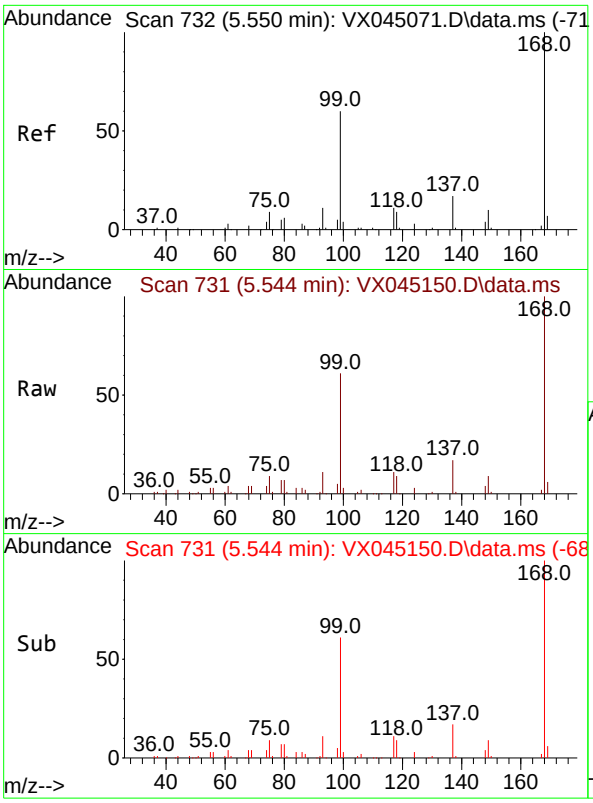
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



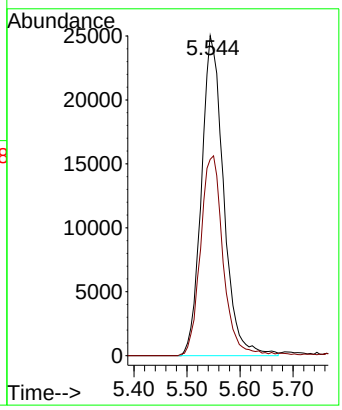
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

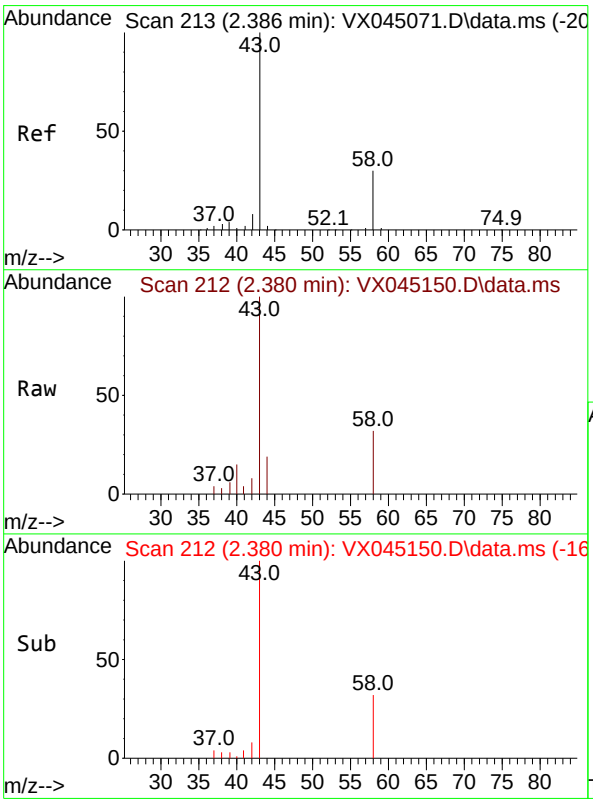


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion:168 Resp: 72598

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.2	72.4

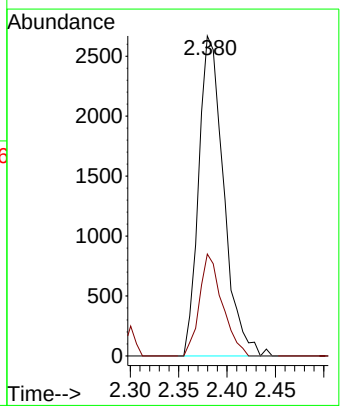


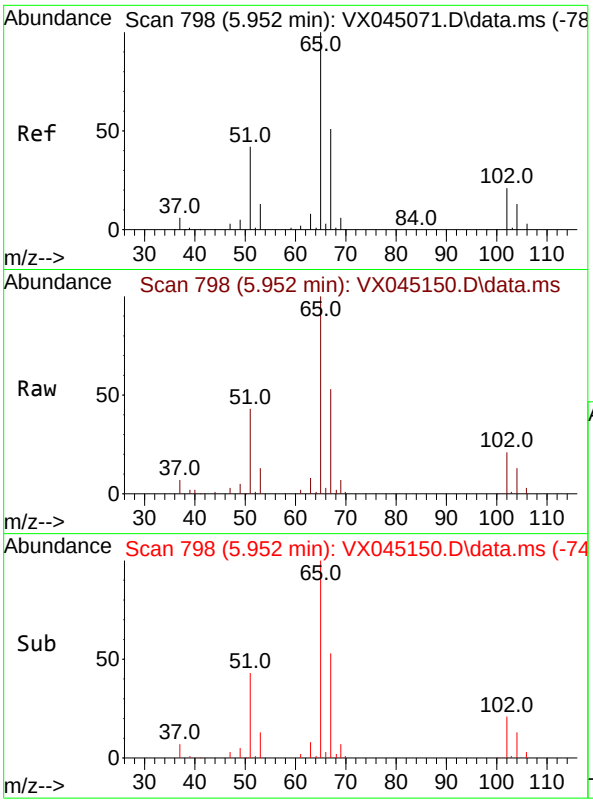


#16
Acetone
Concen: 8.966 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion: 43 Resp: 4804

Ion	Ratio	Lower	Upper
43	100		
58	31.8	24.2	36.4



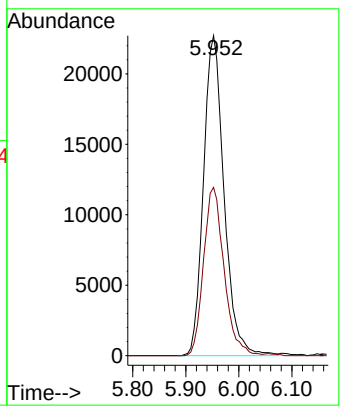


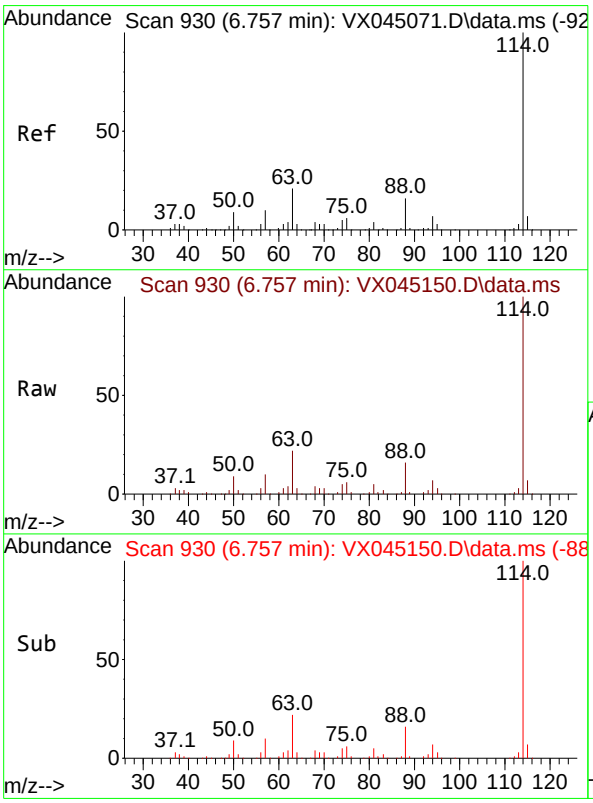
#33
1,2-Dichloroethane-d4
Concen: 52.987 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Tgt Ion: 65 Resp: 61188

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2

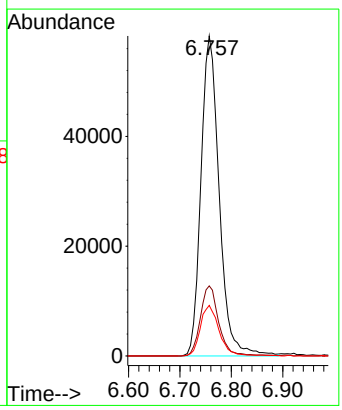


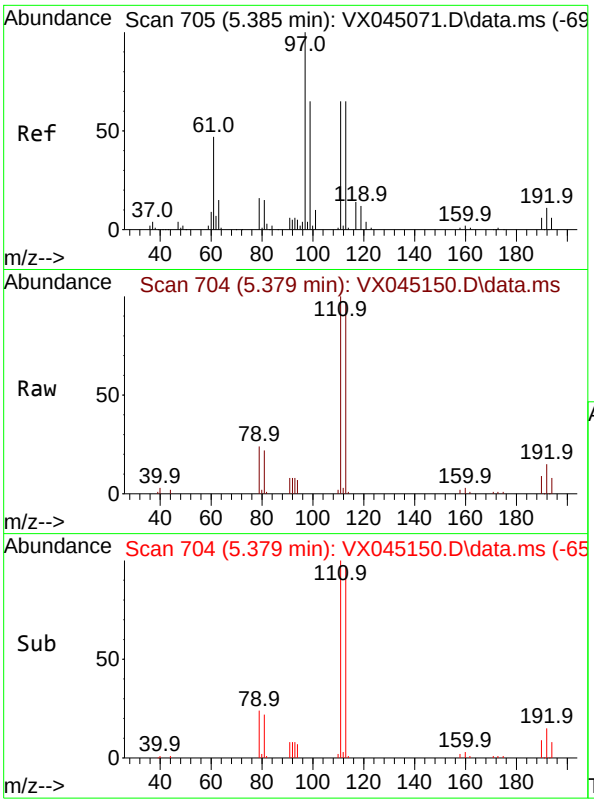


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion:114 Resp: 143720

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	41.8
88	15.8	0.0	32.8



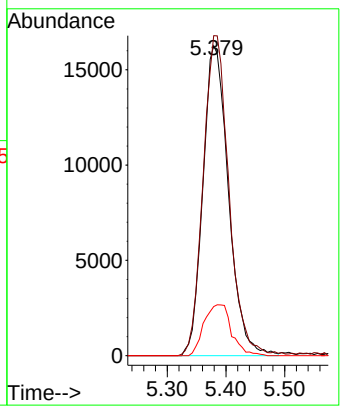


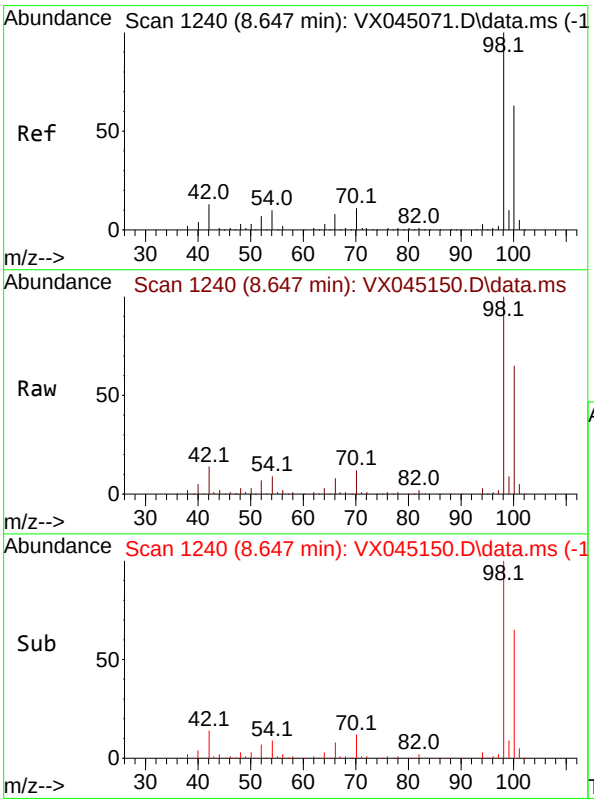
#35
Dibromofluoromethane
Concen: 51.177 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Tgt Ion:113 Resp: 49182

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	17.7	14.3	21.5

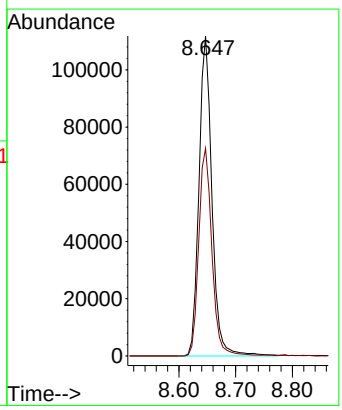


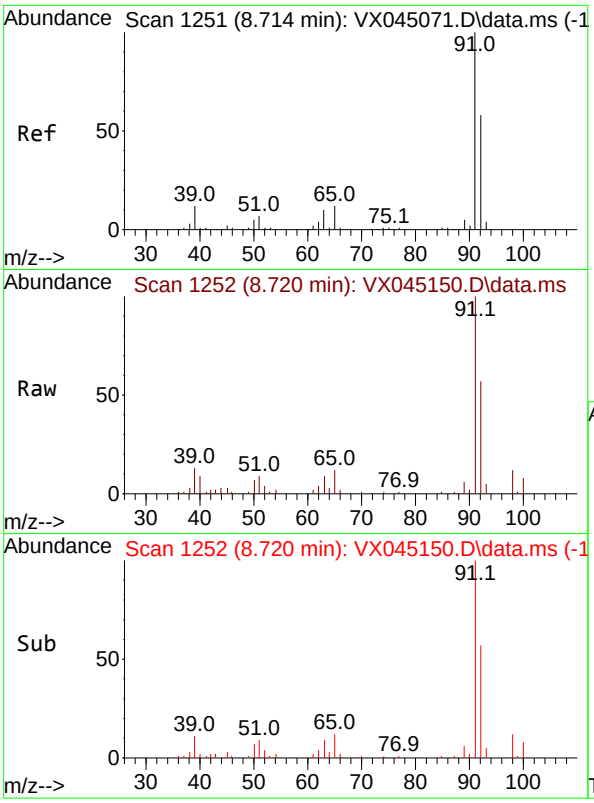


#50
Toluene-d8
Concen: 50.971 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion: 98 Resp: 177583

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.0	78.0



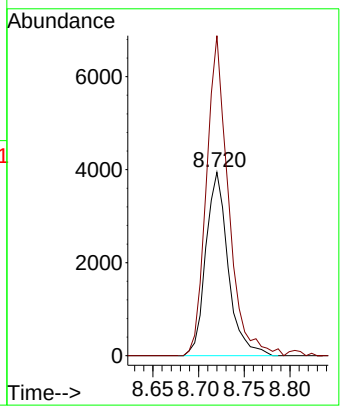


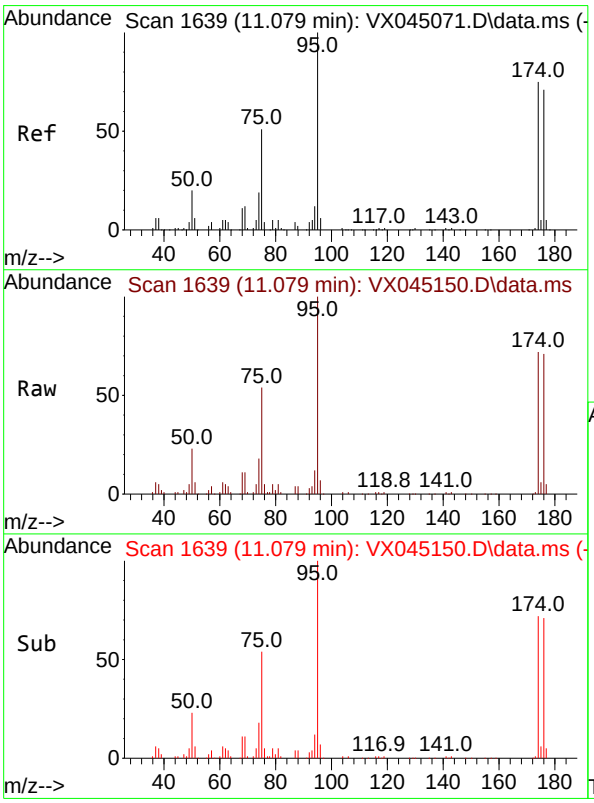
#52
Toluene
Concen: 2.746 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Tgt Ion: 92 Resp: 6706

Ion	Ratio	Lower	Upper
92	100		
91	171.8	138.9	208.3

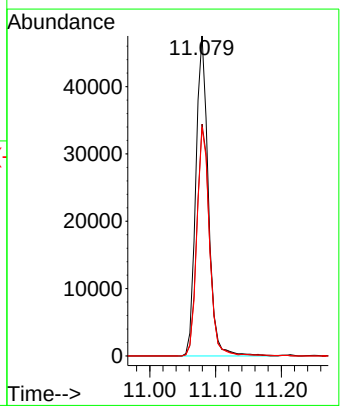




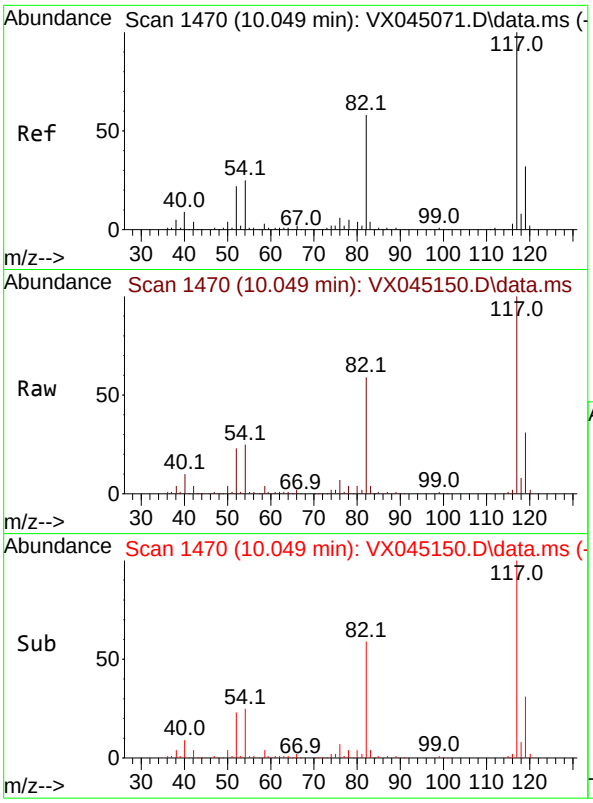
#62
4-Bromofluorobenzene
Concen: 54.300 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion: 95 Resp: 62689

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.2
176	71.9	0.0	141.4



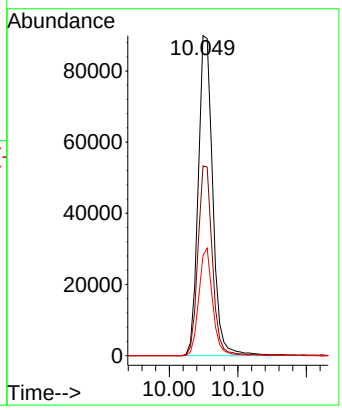
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

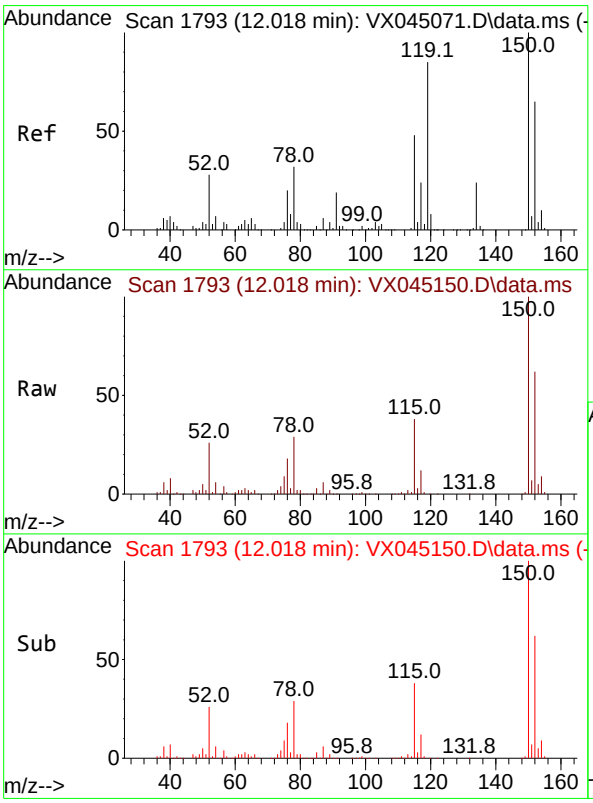


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion:117 Resp: 132869

Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.3	69.5
119	31.4	25.7	38.5

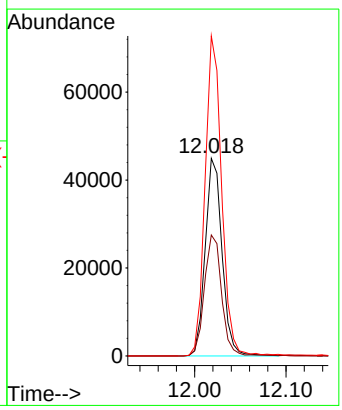




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045150.D
Acq: 05 Mar 2025 18:15

Tgt Ion:152 Resp: 57679

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.2	132.6
150	159.6	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260

Signal : TIC: VX045150.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	18	rVB2	6871	8575	1.79%	0.330%
2	1.240	20	25	28	rBV2	4339	6789	1.41%	0.262%
3	1.624	70	88	92	rBV5	7272	29090	6.06%	1.121%
4	2.380	207	212	222	rVB	4273	7927	1.65%	0.305%
5	5.379	691	704	720	rBV2	54770	165437	34.46%	6.374%
6	5.544	722	731	743	rBV2	77360	222083	46.25%	8.557%
7	5.952	789	798	811	rBV	65007	173518	36.14%	6.685%
8	6.757	920	930	941	rBV	141075	341012	71.02%	13.139%
9	8.647	1234	1240	1248	rBV	302152	480143	100.00%	18.499%
10	8.720	1248	1252	1262	rVB	18758	32839	6.84%	1.265%
11	10.049	1465	1470	1487	rBV	293056	429267	89.40%	16.539%
12	11.079	1634	1639	1658	rBV	237058	312337	65.05%	12.034%
13	12.018	1788	1793	1808	rBV	299691	376311	78.37%	14.499%
14	12.219	1822	1826	1833	rBV2	6089	10144	2.11%	0.391%

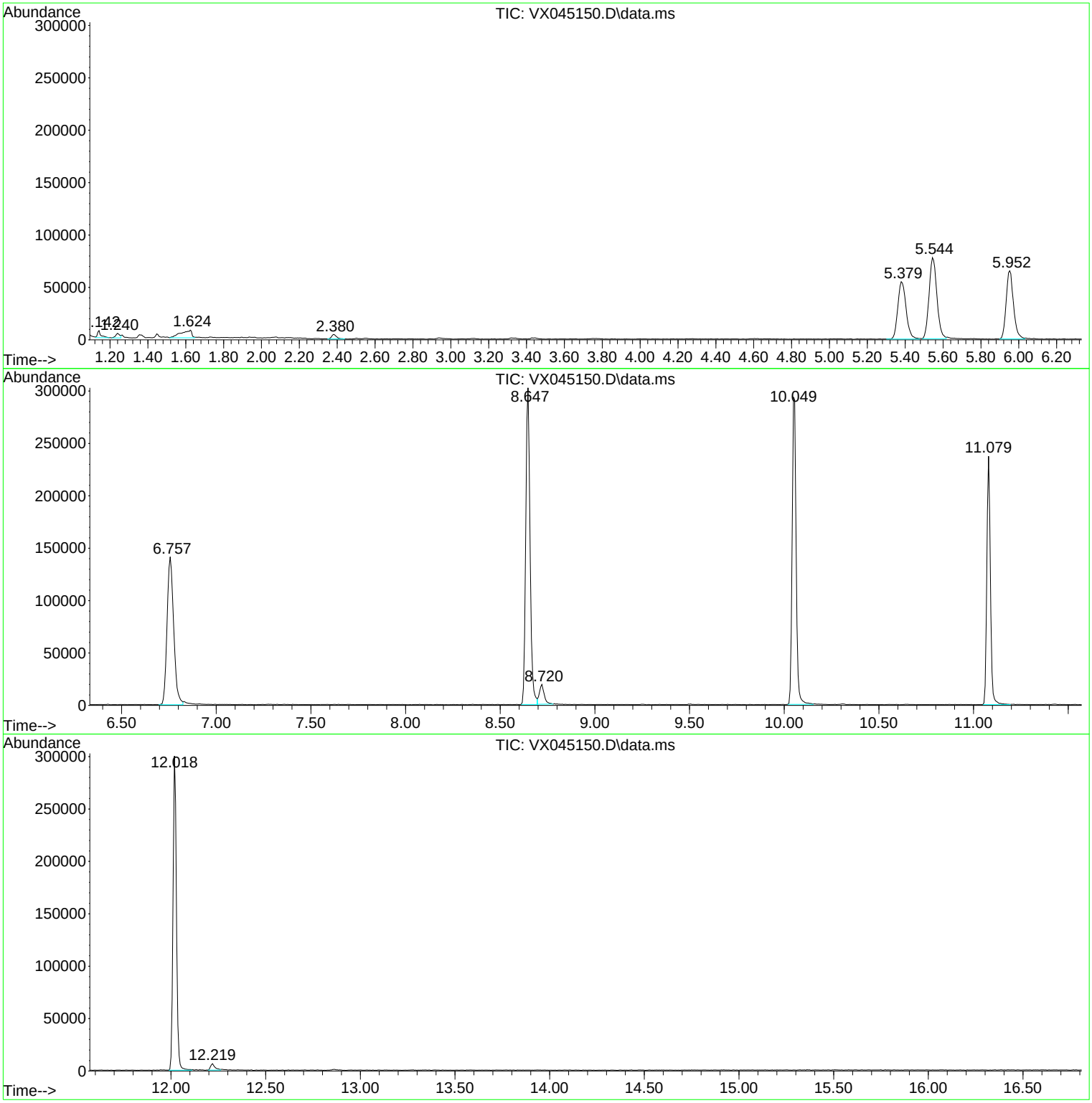
Sum of corrected areas: 2595472

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045150.D
Acq On : 05 Mar 2025 18:15
Operator : JC/MD
Sample : Q1488-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 01:11:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

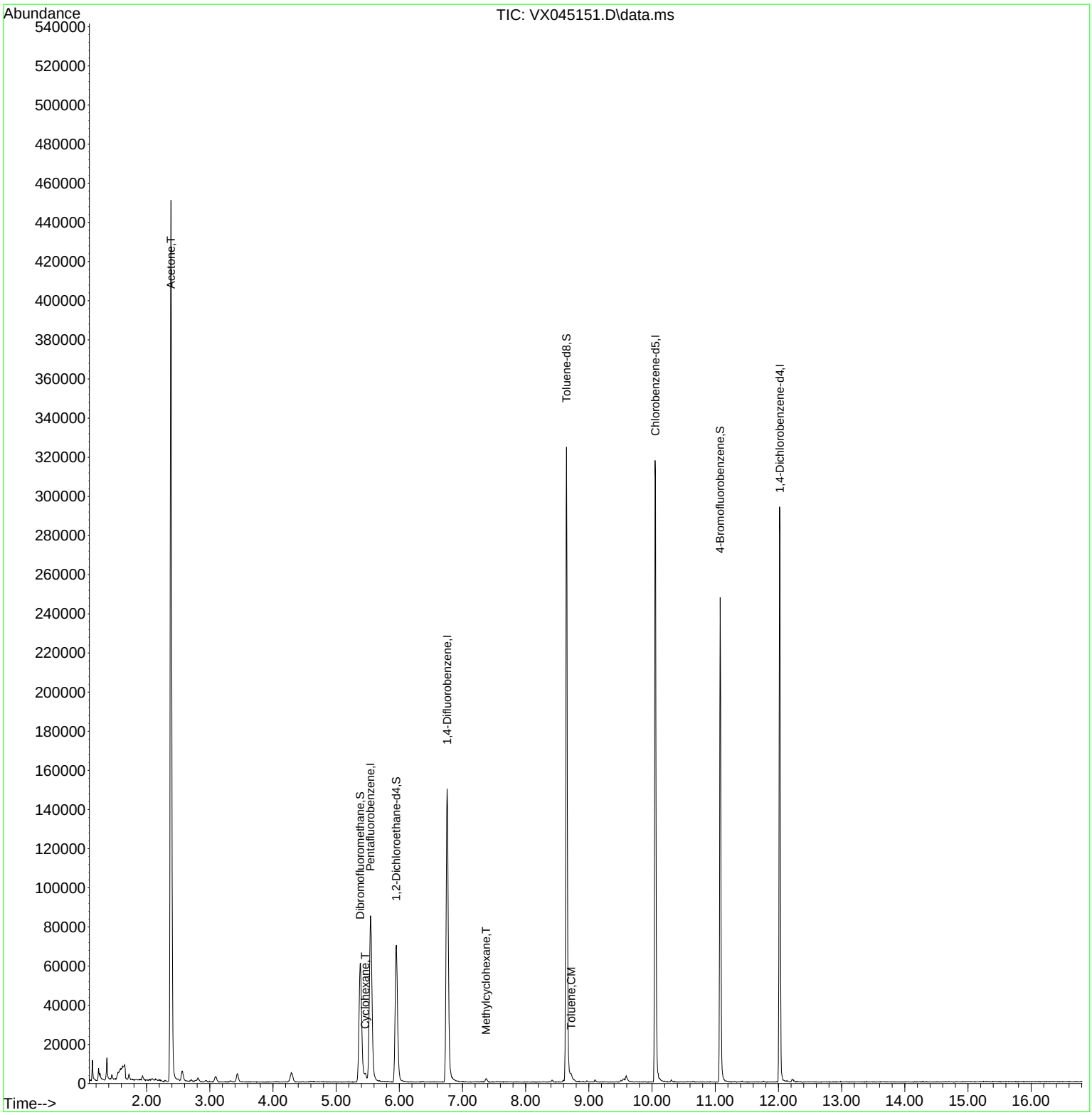
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	79416	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156296	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	141923	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	59794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65462	51.821	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.640%			
35) Dibromofluoromethane	5.379	113	53404	51.099	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.200%			
50) Toluene-d8	8.646	98	193262	51.008	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.020%			
62) 4-Bromofluorobenzene	11.079	95	64393	51.288	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.580%			
Target Compounds						Qvalue
16) Acetone	2.385	43	485114	827.700	ug/l	99
31) Cyclohexane	5.458	56	2244	1.306	ug/l	98
39) Methylcyclohexane	7.372	83	675	0.393	ug/l #	85
52) Toluene	8.720	92	822	0.310	ug/l #	63

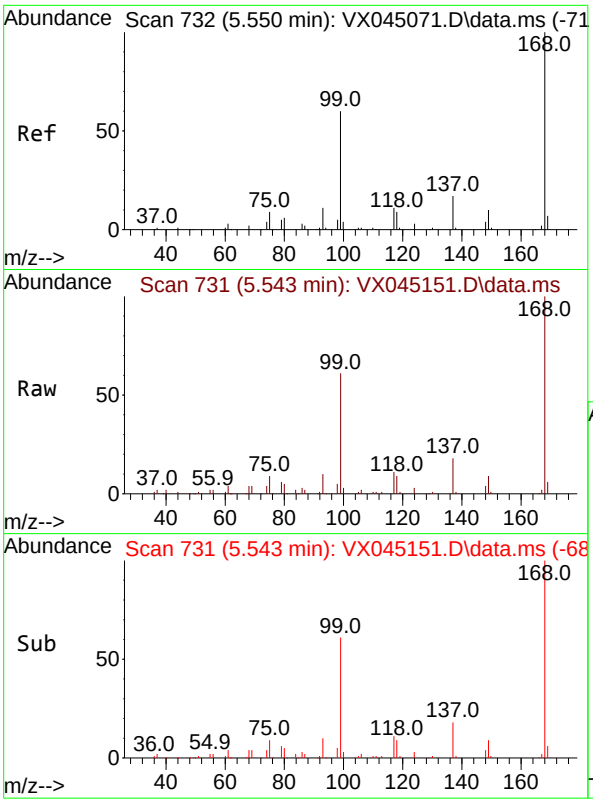
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 01:11:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



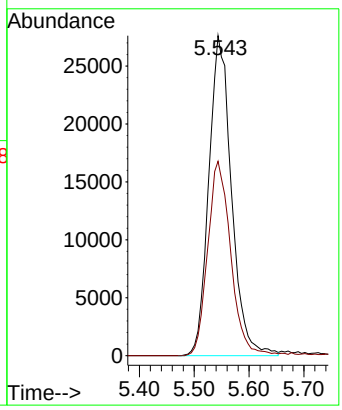


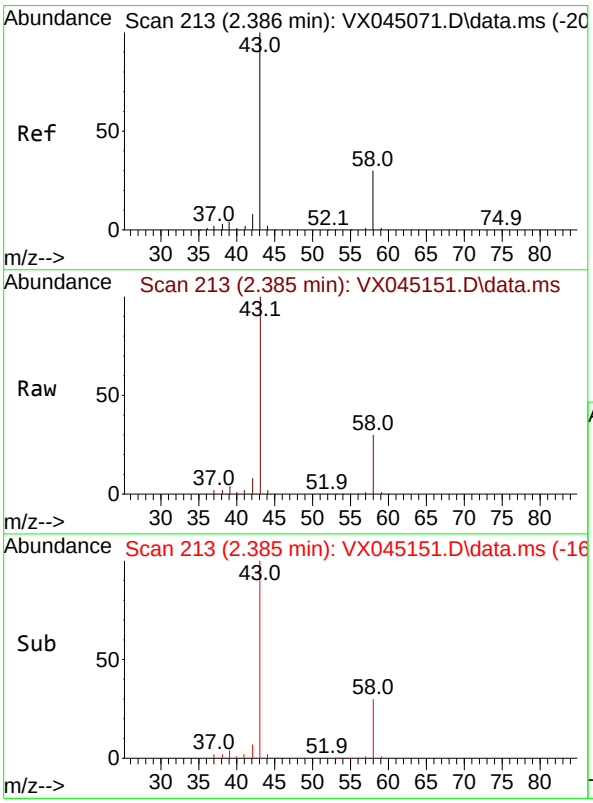
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion:168 Resp: 79416

Ion	Ratio	Lower	Upper
168	100		
99	60.8	48.2	72.4

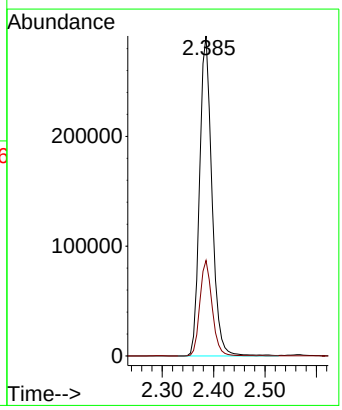


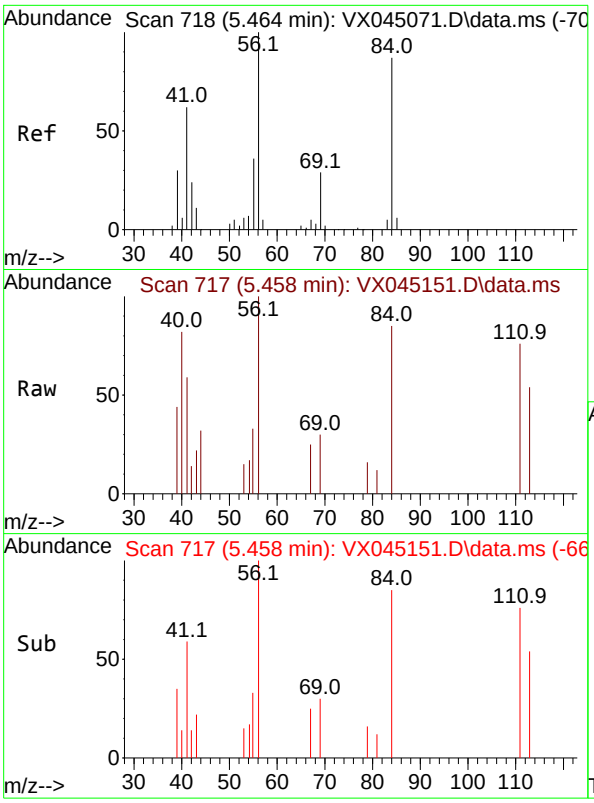


#16
Acetone
Concen: 827.700 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion: 43 Resp: 485114

Ion	Ratio	Lower	Upper
43	100		
58	29.9	24.2	36.4



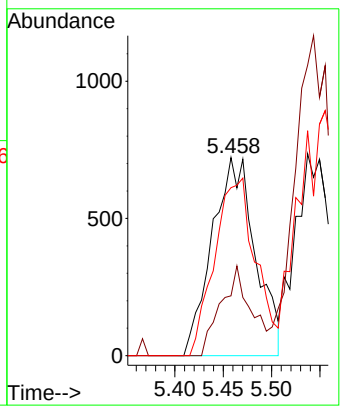


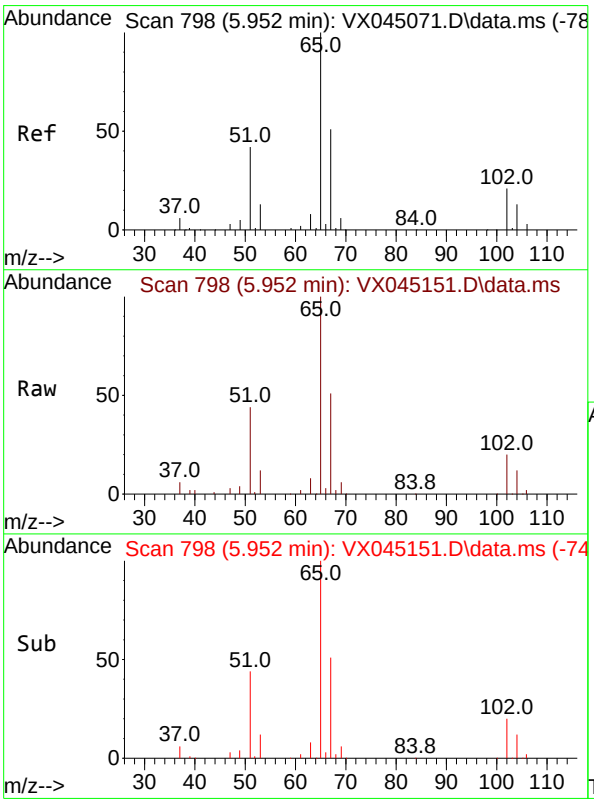
#31
Cyclohexane
Concen: 1.306 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion: 56 Resp: 2244

Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.4	35.2
84	84.8	69.4	104.2

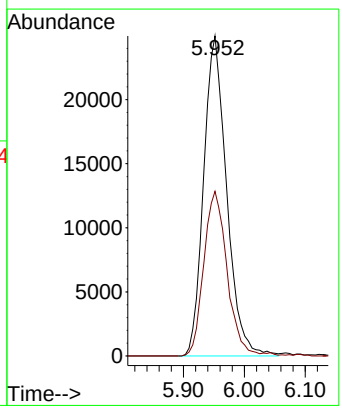


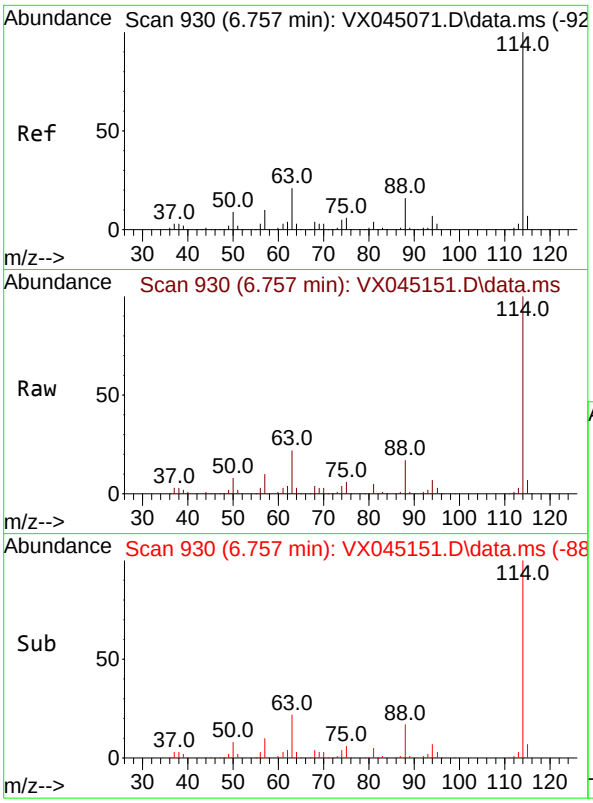


#33
1,2-Dichloroethane-d4
Concen: 51.821 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion: 65 Resp: 65462

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	106.2



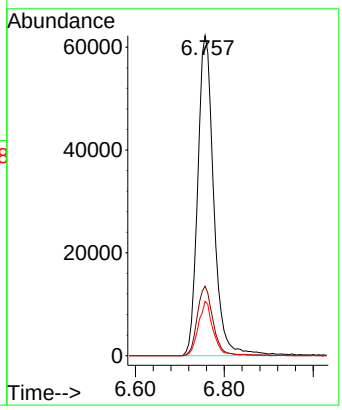


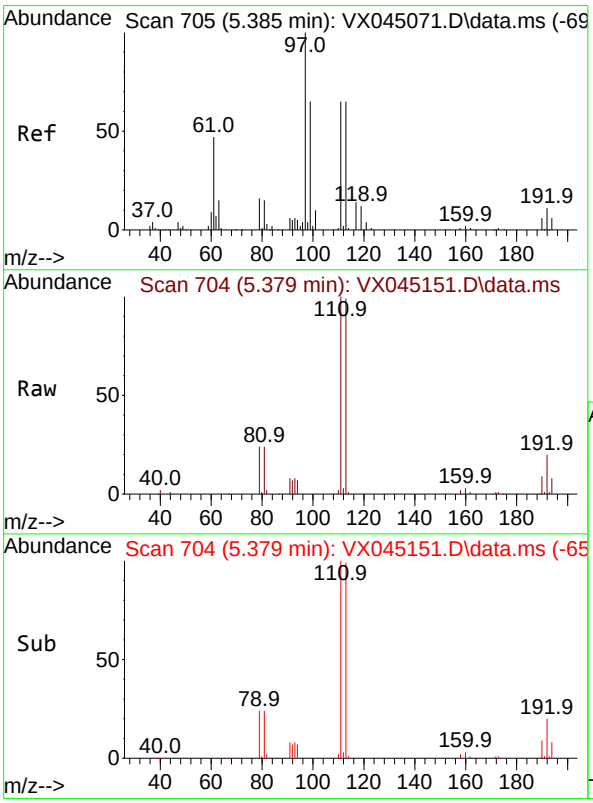
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion:114 Resp: 156296

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	41.8
88	16.9	0.0	32.8

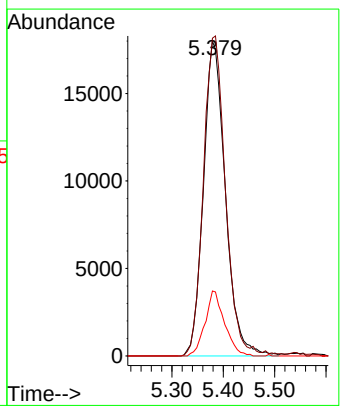


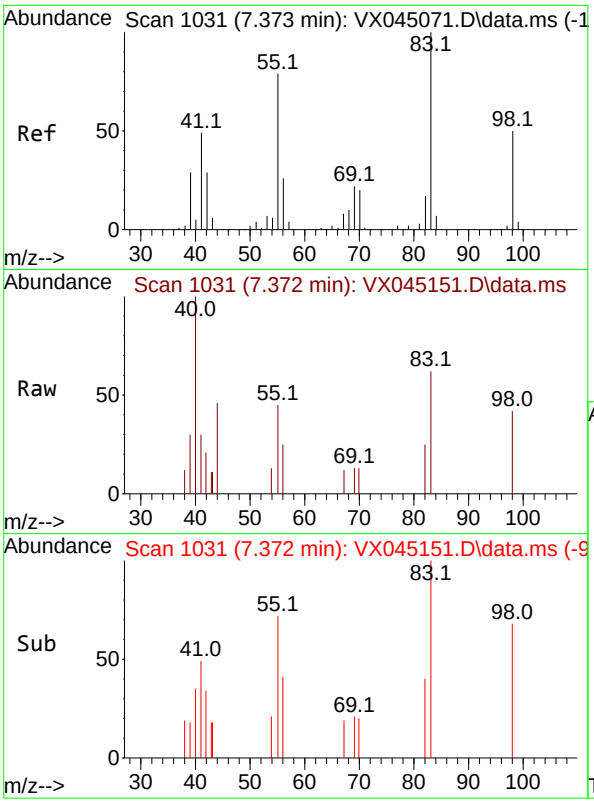


#35
Dibromofluoromethane
Concen: 51.099 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion:113 Resp: 53404

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	18.3	14.3	21.5



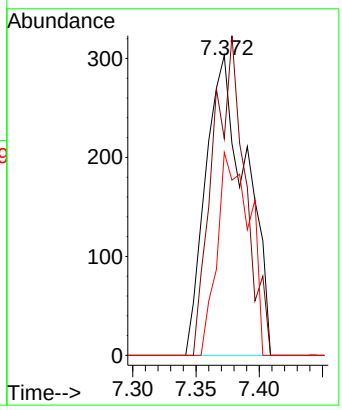


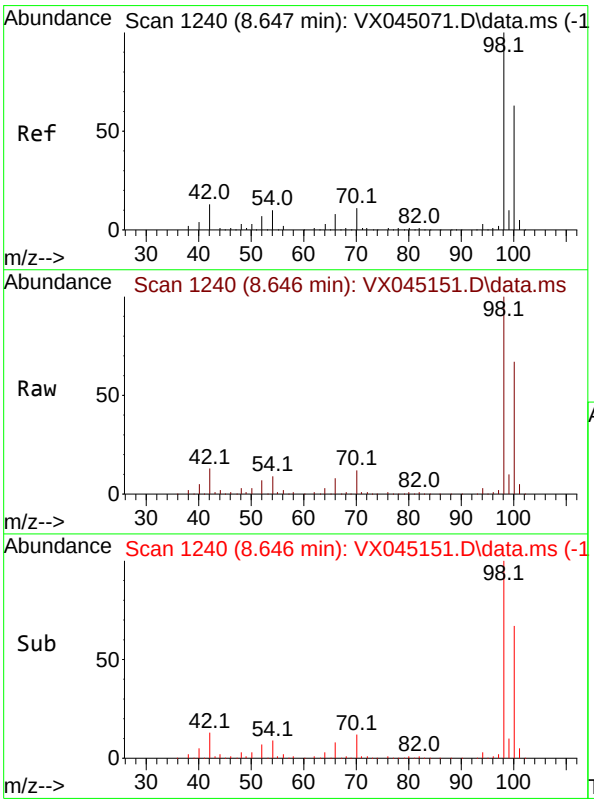
#39
Methylcyclohexane
Concen: 0.393 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion: 83 Resp: 675

Ion	Ratio	Lower	Upper
83	100		
55	72.3	63.0	94.4
98	67.7	39.7	59.5#

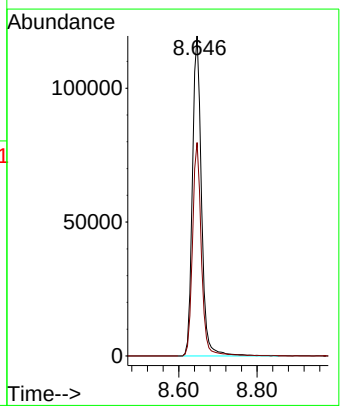


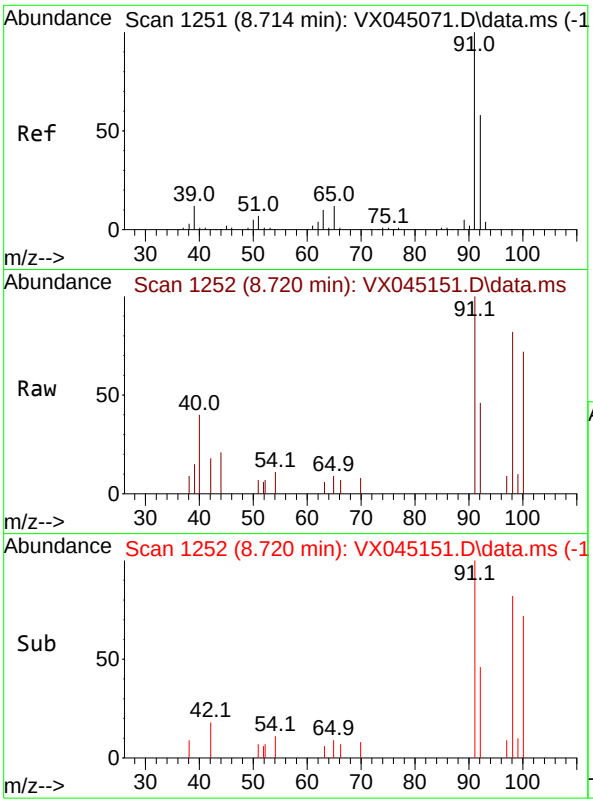


#50
Toluene-d8
Concen: 51.008 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion: 98 Resp: 193262

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0



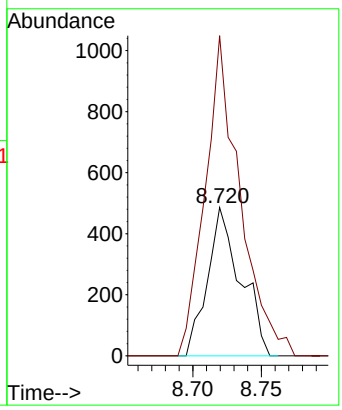


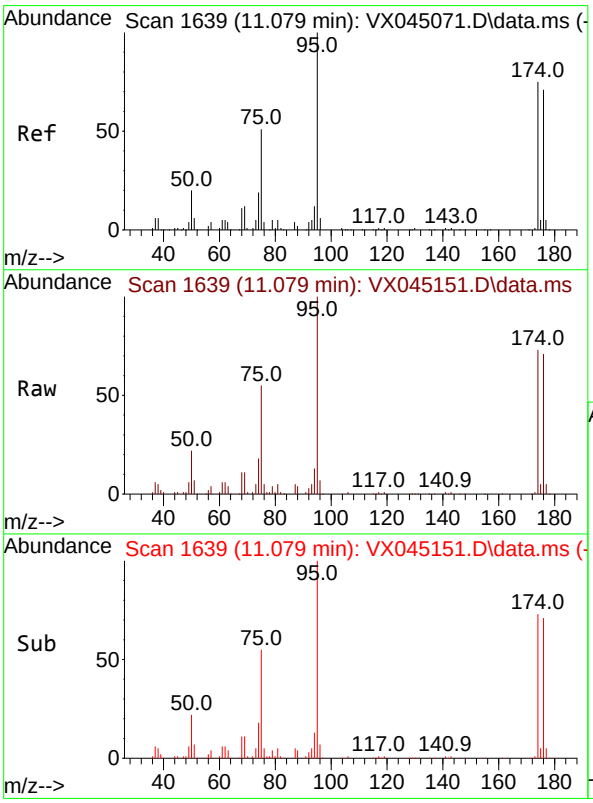
#52
Toluene
Concen: 0.310 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion: 92 Resp: 822

Ion	Ratio	Lower	Upper
92	100		
91	225.3	138.9	208.3#

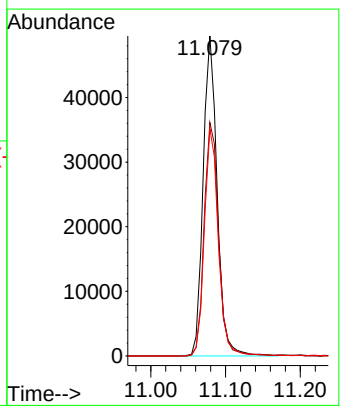


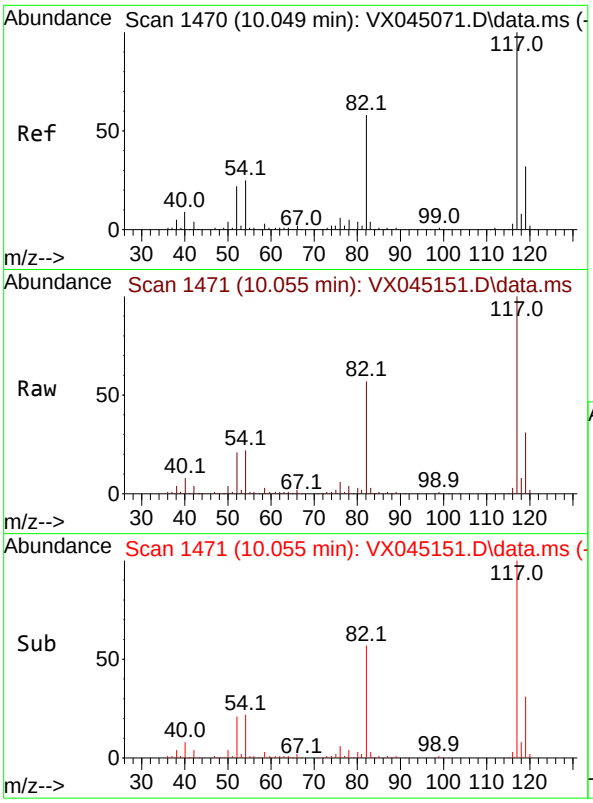


#62
4-Bromofluorobenzene
Concen: 51.288 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion: 95 Resp: 64393

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	148.2
176	71.0	0.0	141.4



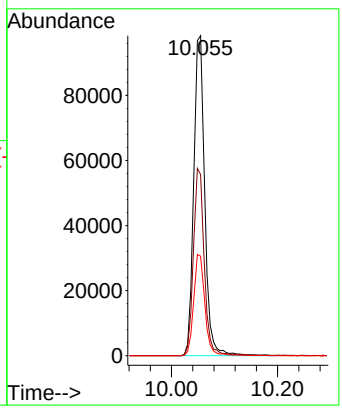


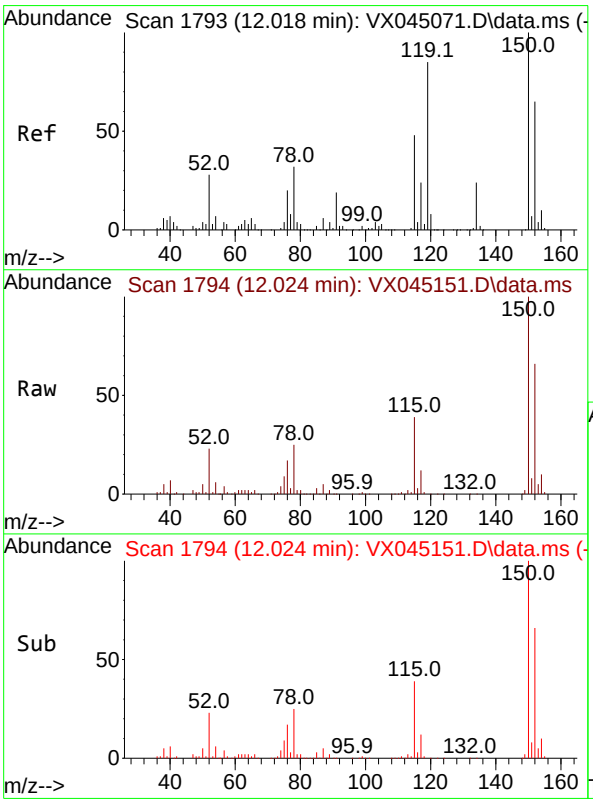
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Tgt Ion:117 Resp: 141923

Ion	Ratio	Lower	Upper
117	100		
82	56.6	46.3	69.5
119	31.1	25.7	38.5

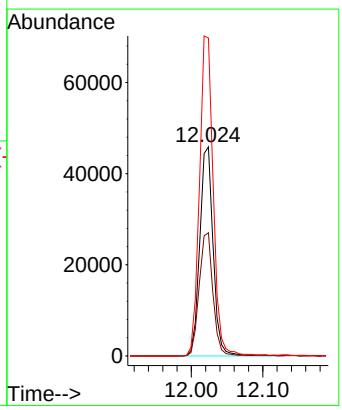




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045151.D
Acq: 05 Mar 2025 18:38

Tgt Ion:152 Resp: 59794

Ion	Ratio	Lower	Upper
152	100		
115	60.4	44.2	132.6
150	157.1	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260

Signal : TIC: VX045151.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	19	rVB	10472	10772	1.44%	0.310%
2	1.373	40	47	53	rBV	11332	14948	1.99%	0.431%
3	2.385	205	213	229	rBV	450471	749901	100.00%	21.601%
4	2.562	236	242	252	rVB	5064	11533	1.54%	0.332%
5	3.434	376	385	396	rBV3	4223	10384	1.38%	0.299%
6	4.287	514	525	527	rBV4	4771	9771	1.30%	0.281%
7	5.385	693	705	715	rBV	60732	179447	23.93%	5.169%
8	5.543	722	731	752	rVB	84596	244737	32.64%	7.050%
9	5.952	789	798	816	rBV	70021	187422	24.99%	5.399%
10	6.757	922	930	951	rBV	149806	370342	49.39%	10.668%
11	8.646	1233	1240	1251	rBV	323947	516909	68.93%	14.890%
12	10.049	1465	1470	1493	rBV	317691	458441	61.13%	13.206%
13	11.079	1634	1639	1653	rBV	247508	321619	42.89%	9.264%
14	12.018	1788	1793	1802	rBV	293983	385345	51.39%	11.100%

Sum of corrected areas: 3471571

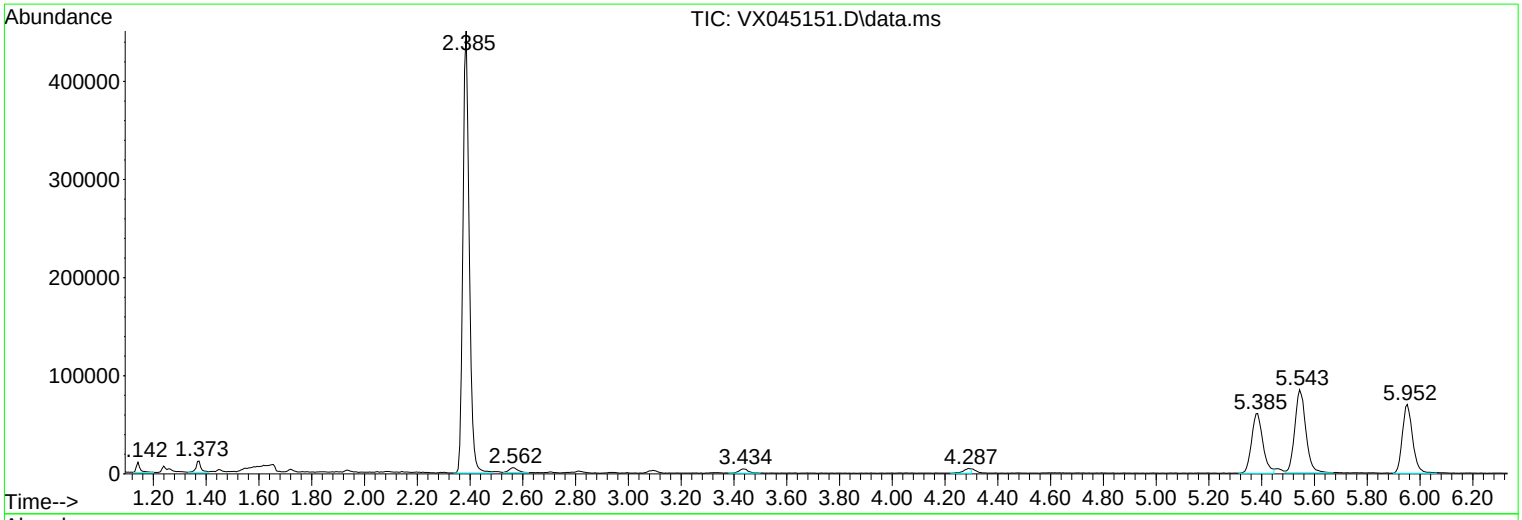
Sample Results: **VX045151.D**

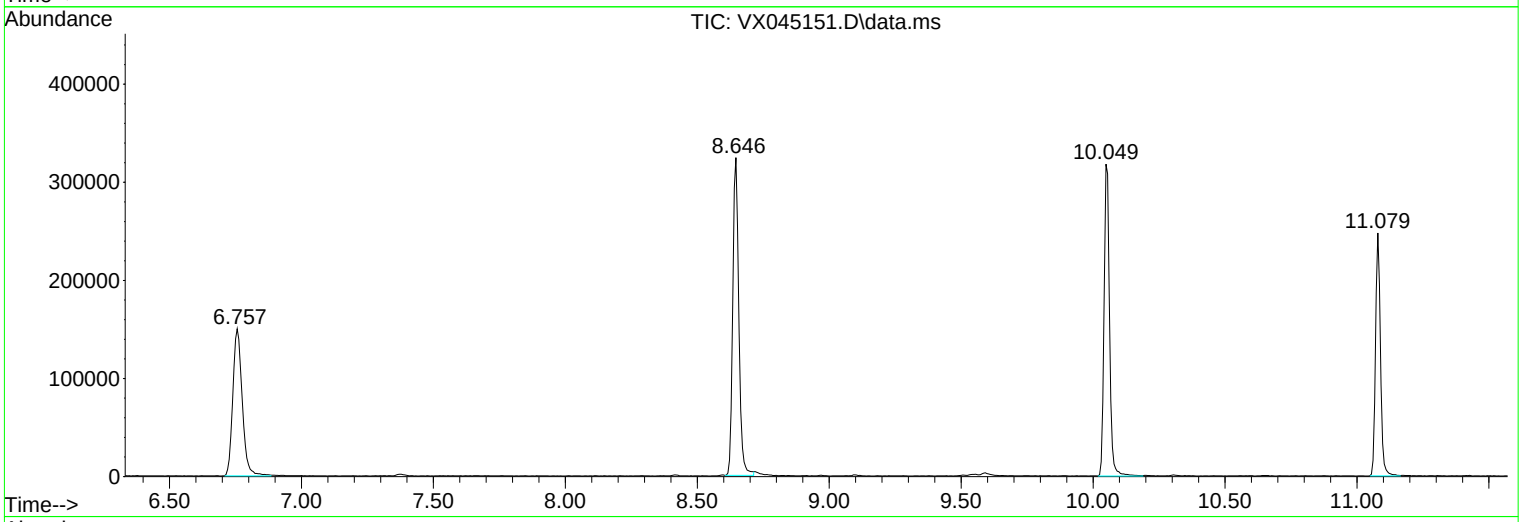
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

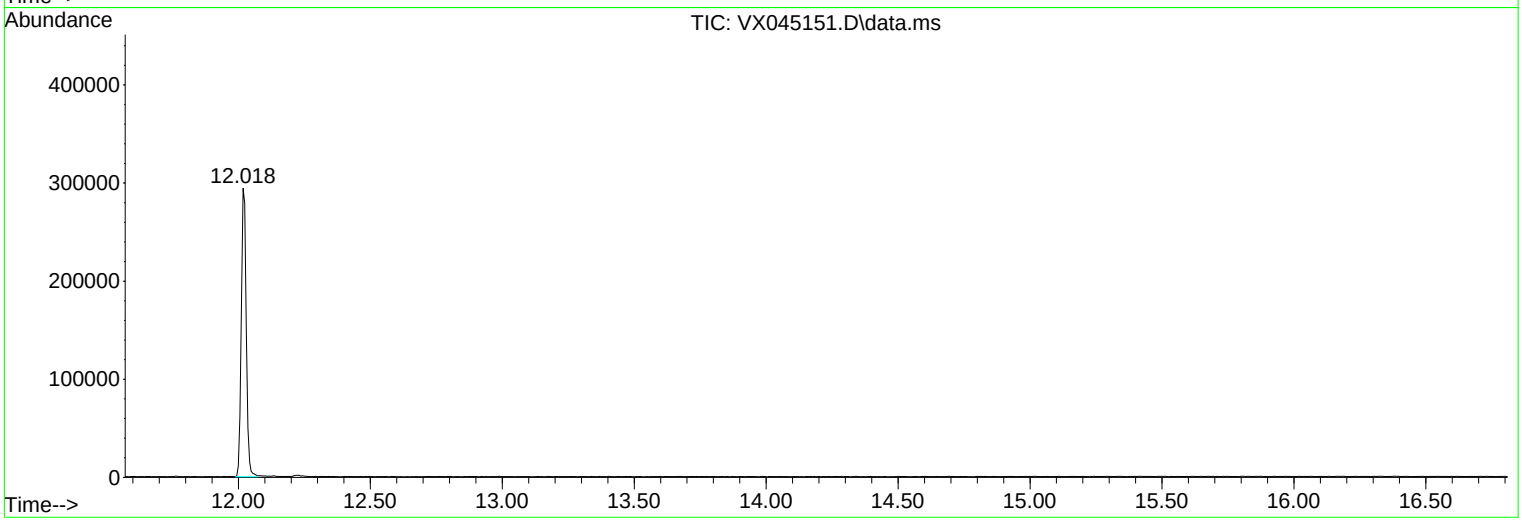
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045151.D
Acq On : 05 Mar 2025 18:38
Operator : JC/MD
Sample : Q1488-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030625\
Data File : VX045161.D
Acq On : 06 Mar 2025 12:23
Operator : JC/MD
Sample : Q1488-14DL 4X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 07 00:39:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	70228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133297	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	124634	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48192	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	58140	52.046	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.100%			
35) Dibromofluoromethane	5.379	113	47297	53.064	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.120%			
50) Toluene-d8	8.647	98	172598	53.414	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.820%			
62) 4-Bromofluorobenzene	11.079	95	55482	51.815	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.620%			
Target Compounds						Qvalue
16) Acetone	2.380	43	133319	257.228	ug/l	97
31) Cyclohexane	5.446	56	733m	0.482	ug/l	

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

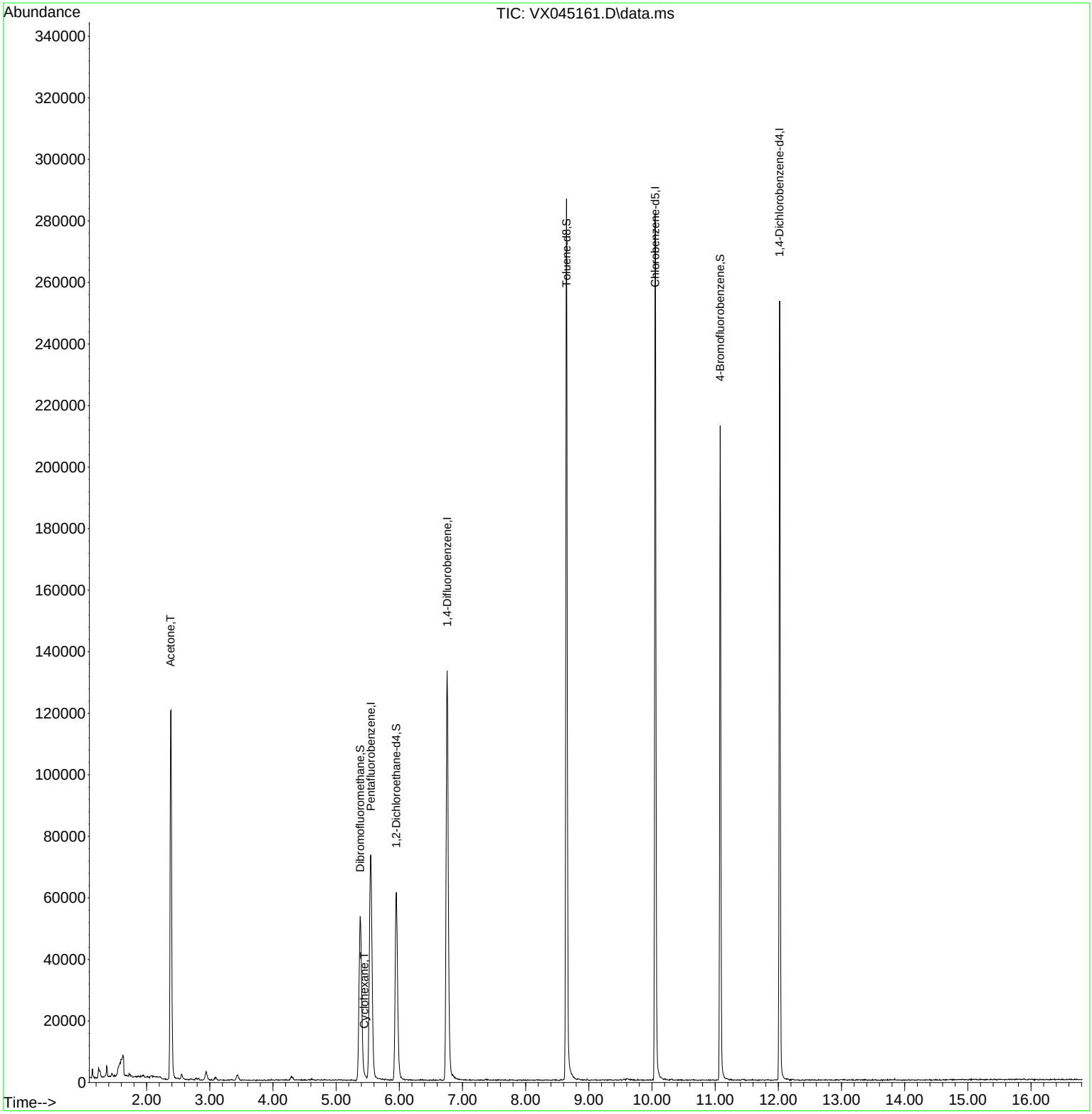
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045161.D
Acq On : 06 Mar 2025 12:23
Operator : JC/MD
Sample : Q1488-14DL 4X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

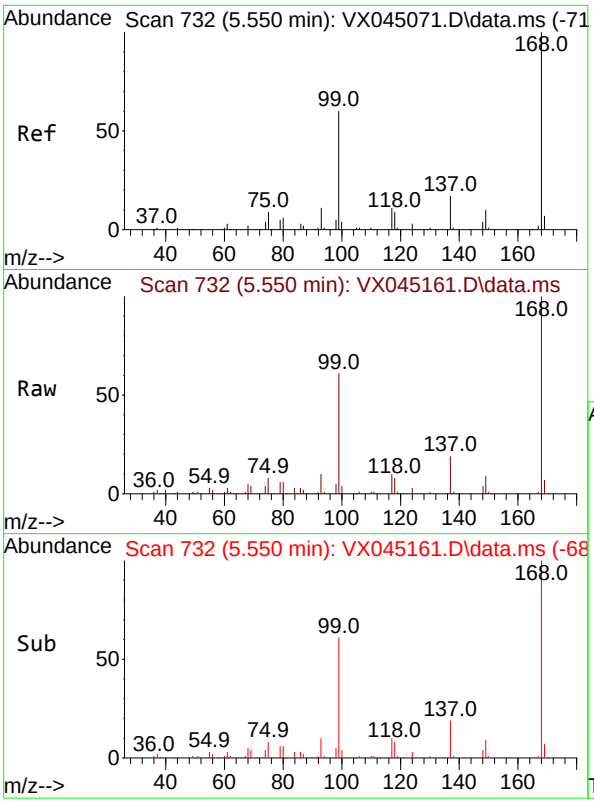
Quant Time: Mar 07 00:39:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

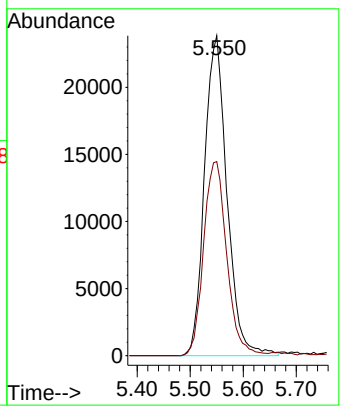




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion:168 Resp: 7022

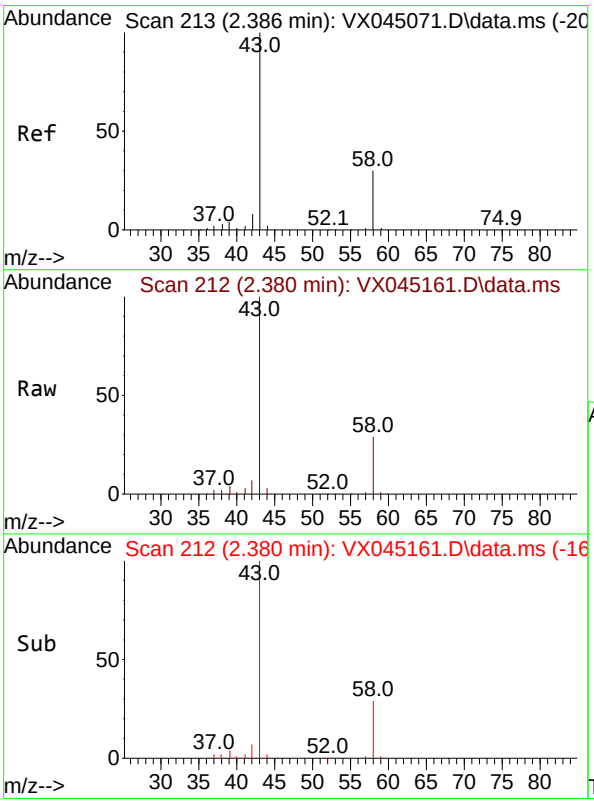
Ion	Ratio	Lower	Upper
168	100		
99	60.7	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations
APPROVED

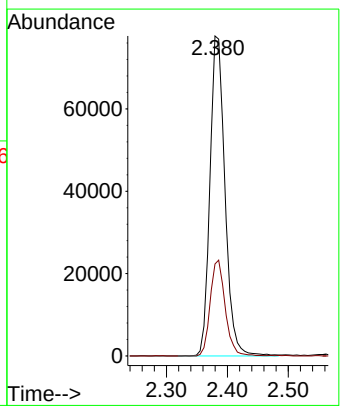
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#16
Acetone
Concen: 257.228 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion: 43 Resp: 133319

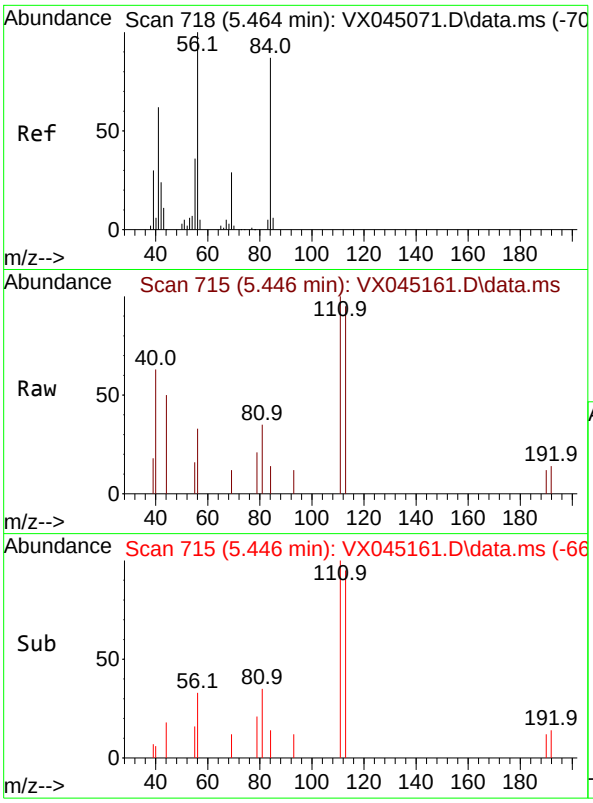
Ion	Ratio	Lower	Upper
43	100		
58	28.7	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations
APPROVED

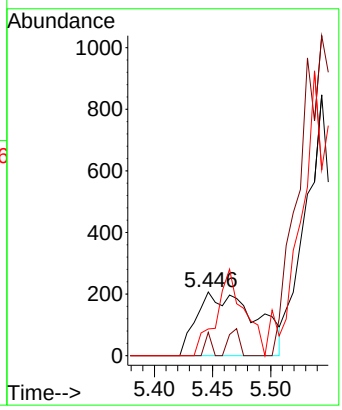
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

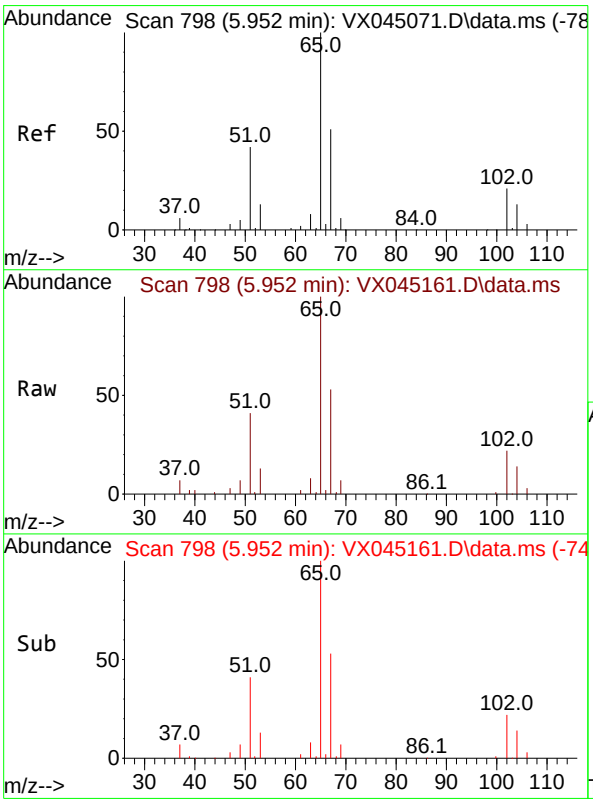


#31
Cyclohexane
Concen: 0.482 ug/l m
RT: 5.446 min Scan# 7
Delta R.T. -0.018 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion: 56 Resp: 73

Ion	Ratio	Lower	Upper
56	100		
69	36.7	23.4	35.2#
84	42.0	69.4	104.2#

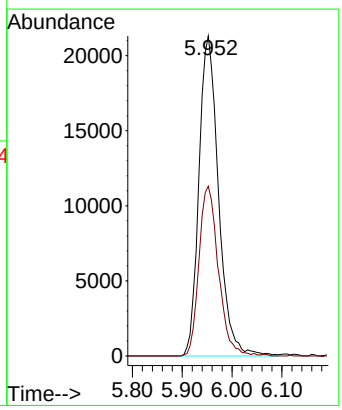


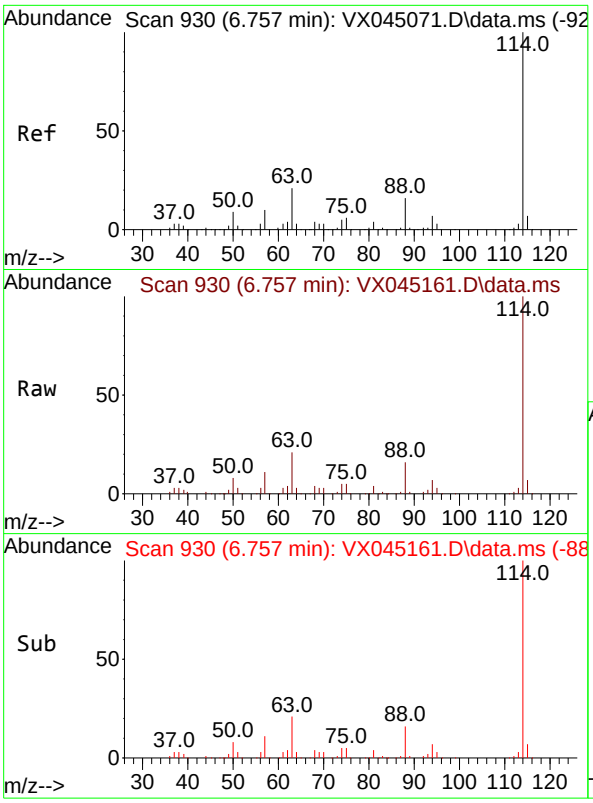


#33
1,2-Dichloroethane-d4
Concen: 52.046 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion: 65 Resp: 58140

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

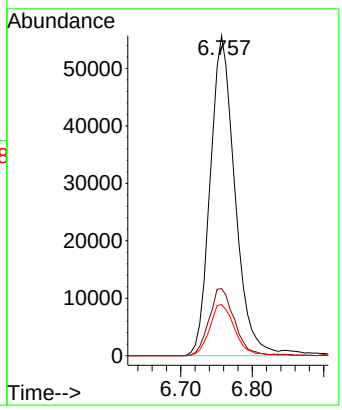
Tgt Ion:114 Resp: 13329

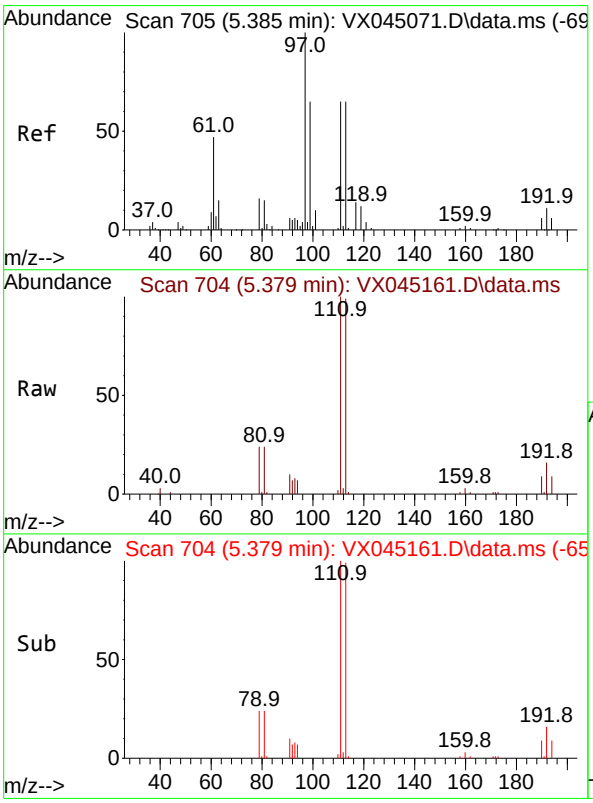
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.8
88	16.0	0.0	32.8

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

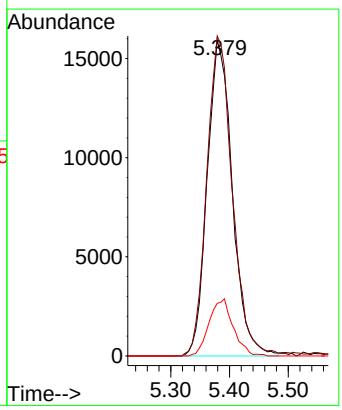


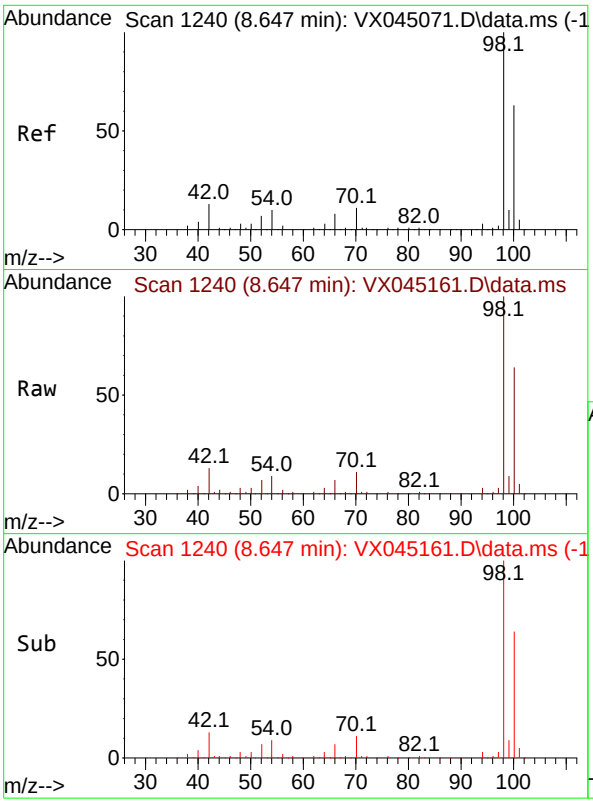


#35
Dibromofluoromethane
Concen: 53.064 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion:113 Resp: 47297

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.6
192	17.3	14.3	21.5

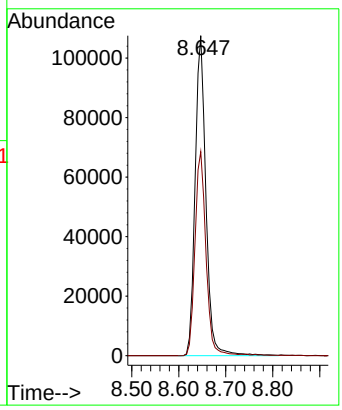




#50
Toluene-d8
Concen: 53.414 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion: 98 Resp: 17259

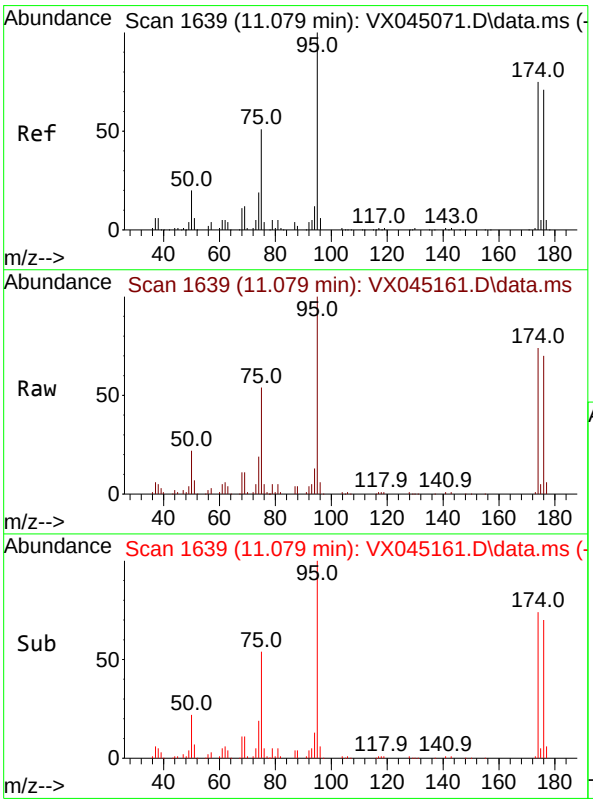
Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations
APPROVED

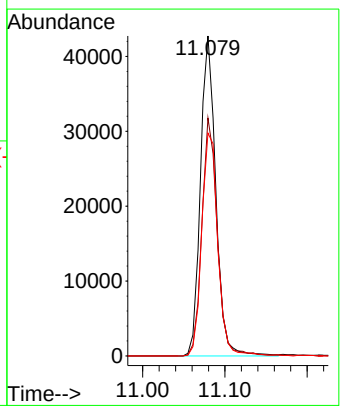
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

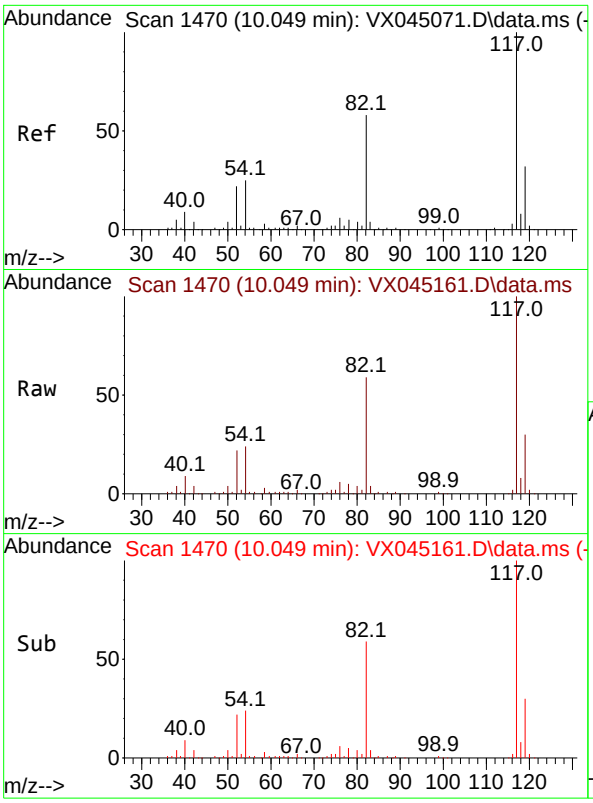


#62
4-Bromofluorobenzene
Concen: 51.815 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion: 95 Resp: 55482

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	148.2
176	72.9	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

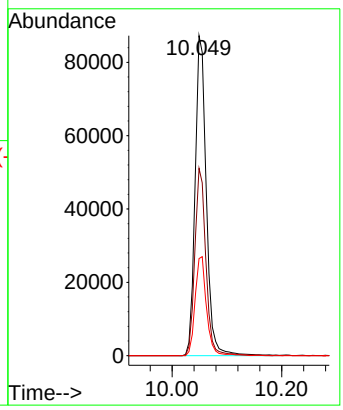
Tgt Ion:117 Resp: 12463

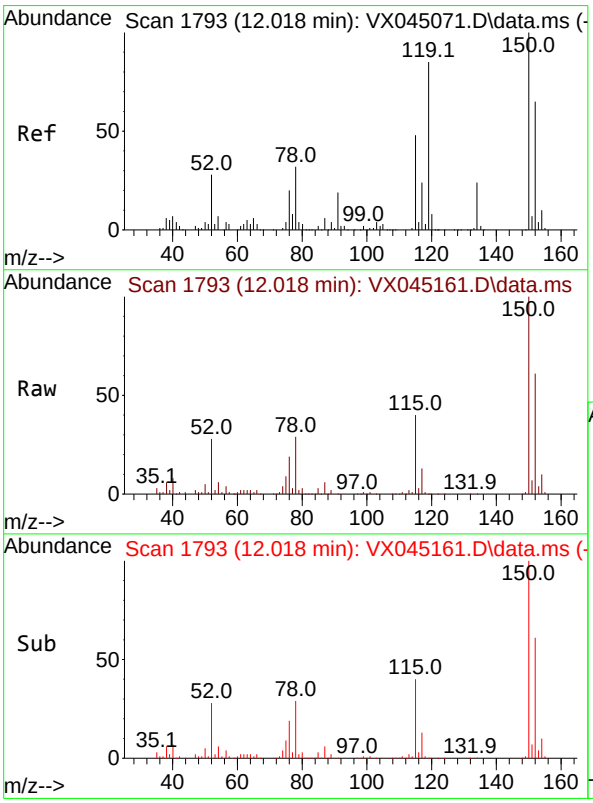
Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.3	69.5
119	30.4	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-GW01DL

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

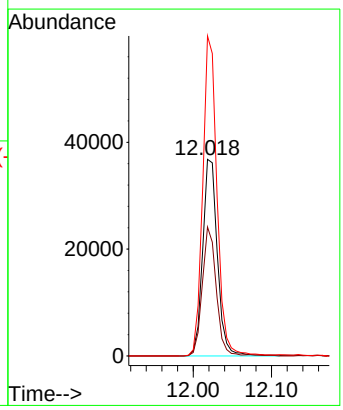




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045161.D
Acq: 06 Mar 2025 12:23

Tgt Ion:152 Resp: 48192

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.2	132.6
150	157.5	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Quant Time: Mar 06 01:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

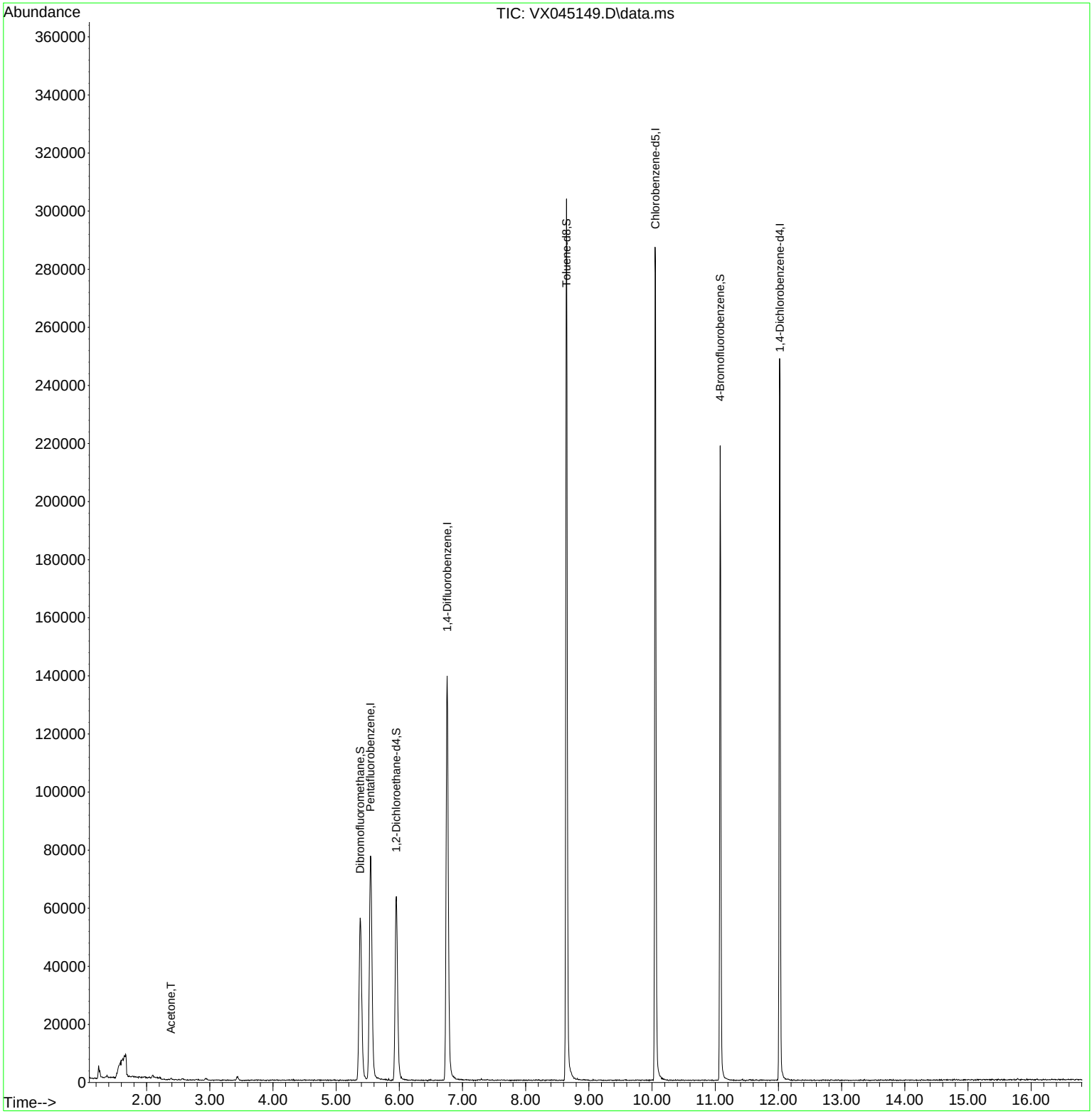
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	72831	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	143614	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	130232	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50863	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61816	53.359	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.720%			
35) Dibromofluoromethane	5.379	113	48916	50.938	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.880%			
50) Toluene-d8	8.647	98	178936	51.397	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.800%			
62) 4-Bromofluorobenzene	11.079	95	57520	49.859	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.720%			
Target Compounds						Qvalue
16) Acetone	2.386	43	580	1.079	ug/l	99

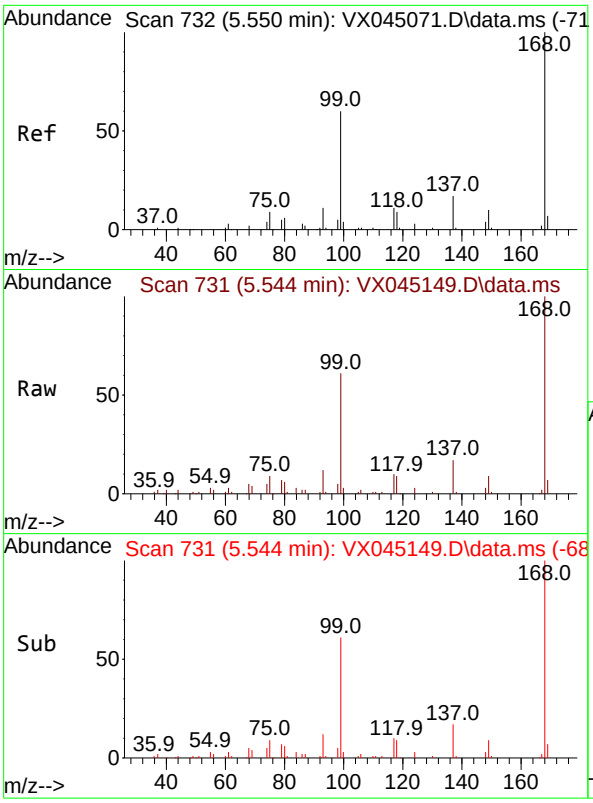
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Quant Time: Mar 06 01:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



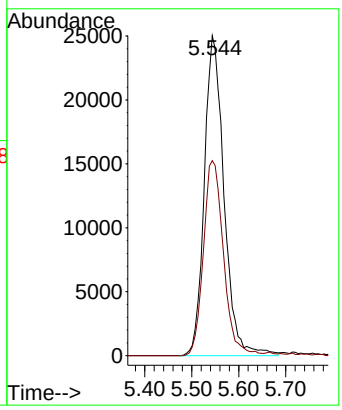


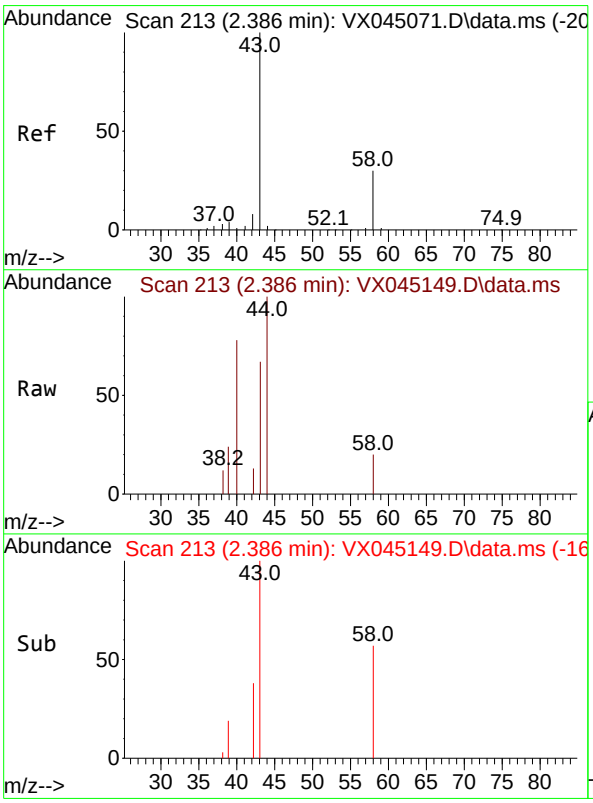
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Tgt Ion:168 Resp: 72831

Ion	Ratio	Lower	Upper
168	100		
99	60.9	48.2	72.4

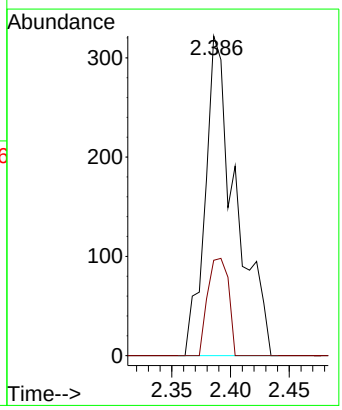


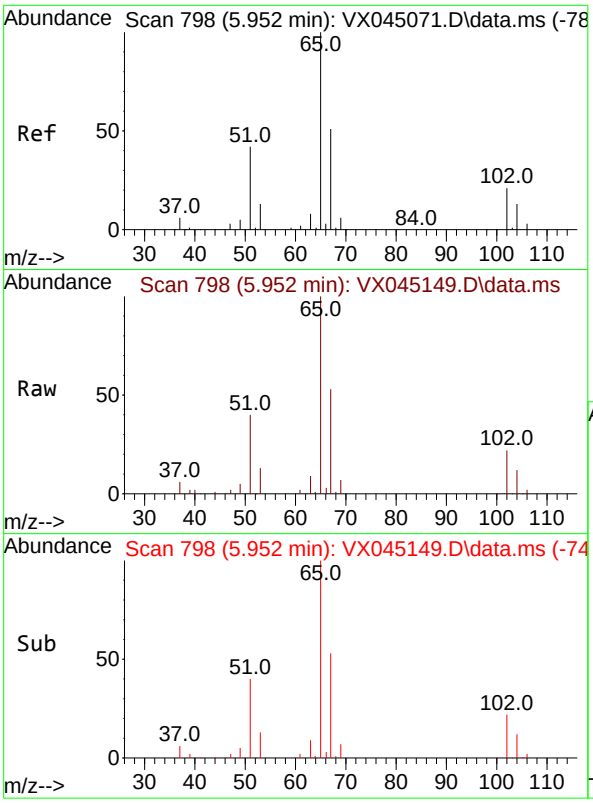


#16
Acetone
Concen: 1.079 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Tgt Ion: 43 Resp: 580

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.2	36.4



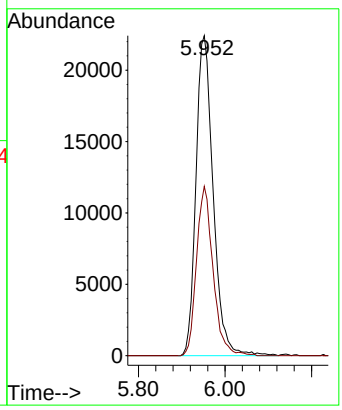


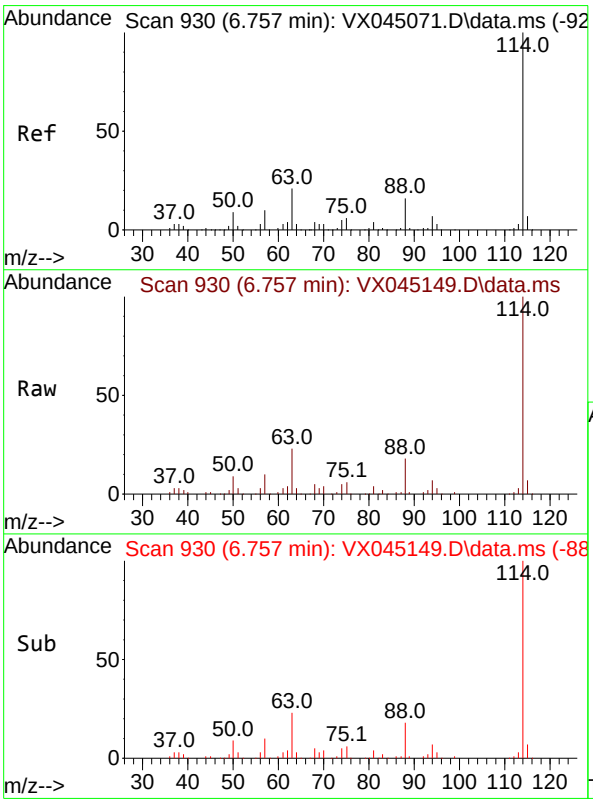
#33
1,2-Dichloroethane-d4
Concen: 53.359 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Tgt Ion: 65 Resp: 61816

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	106.2

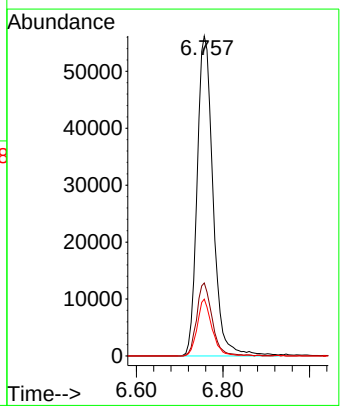


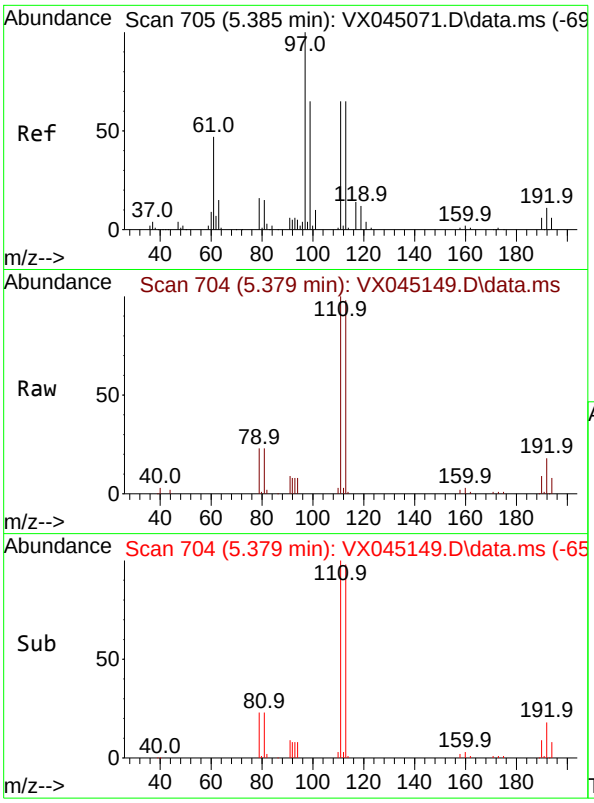


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Tgt Ion:114 Resp: 143614

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	41.8
88	17.7	0.0	32.8



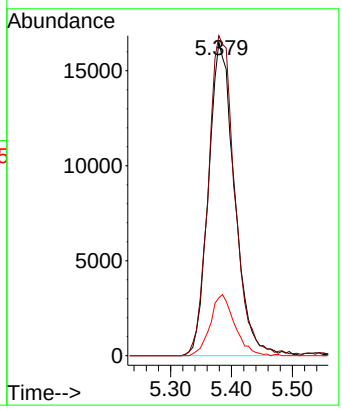


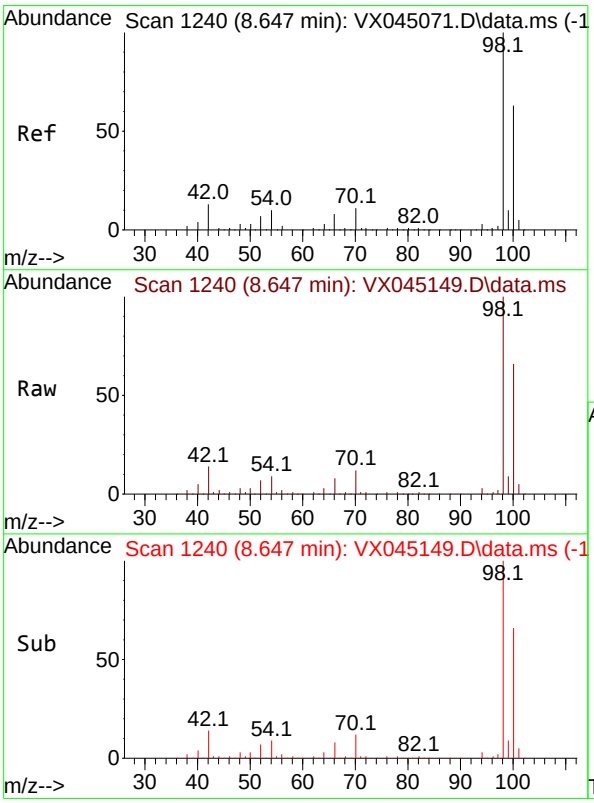
#35
Dibromofluoromethane
Concen: 50.938 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Tgt Ion:113 Resp: 48916

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.8	122.6
192	18.3	14.3	21.5

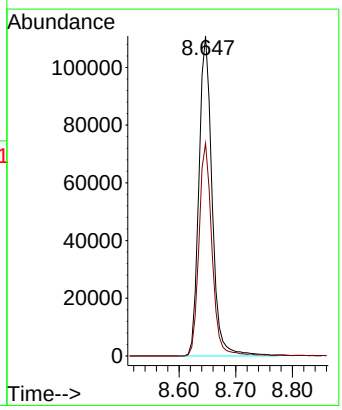


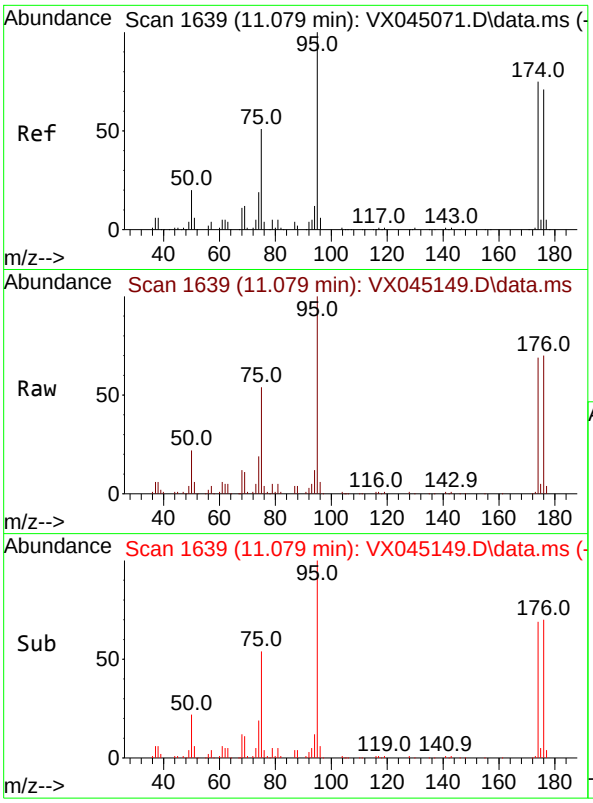


#50
Toluene-d8
Concen: 51.397 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Tgt Ion: 98 Resp: 178936

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.0	78.0



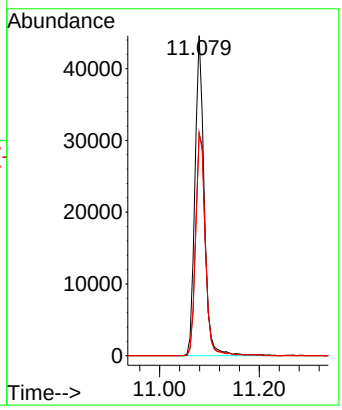


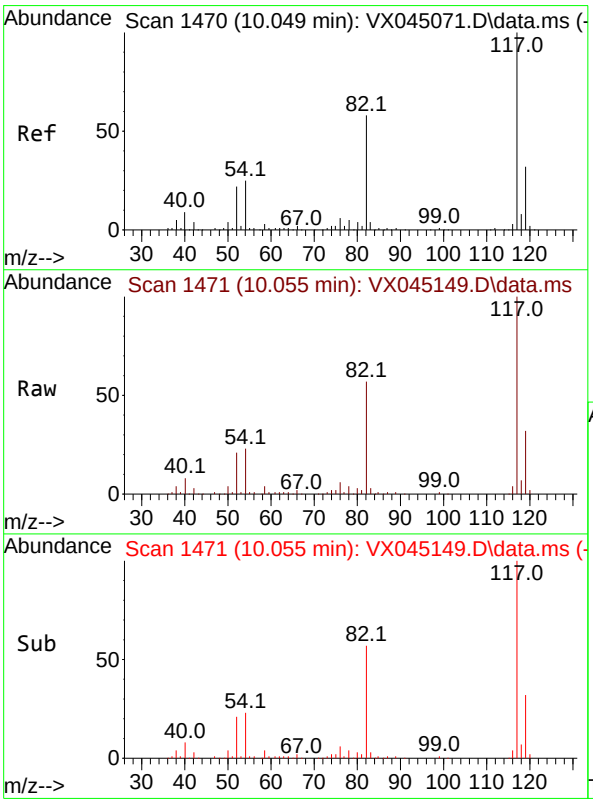
#62
4-Bromofluorobenzene
Concen: 49.859 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Tgt Ion: 95 Resp: 57520

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	148.2
176	72.3	0.0	141.4

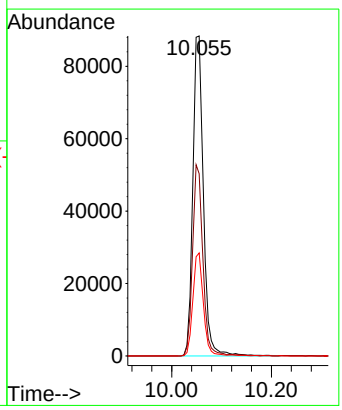


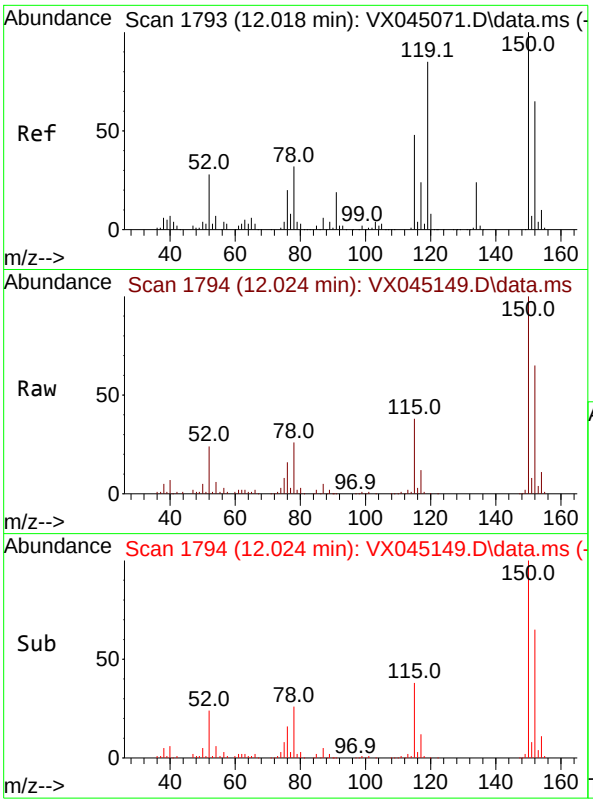


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Tgt Ion:117 Resp: 130232

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.3	69.5
119	32.2	25.7	38.5



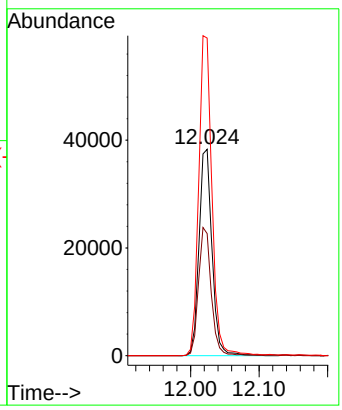


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045149.D
Acq: 05 Mar 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Tgt Ion:152 Resp: 50863

Ion	Ratio	Lower	Upper
152	100		
115	60.6	44.2	132.6
150	157.4	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

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_X\Method\82X022825W.M
Title : SW846 8260

Signal : TIC: VX045149.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	32	rBV2	4447	7458	1.52%	0.306%
2	1.587	69	82	83	rBV6	5623	17021	3.47%	0.698%
3	5.379	695	704	721	rBV	55755	164636	33.59%	6.747%
4	5.544	721	731	743	rBV2	76805	219542	44.79%	8.997%
5	5.952	789	798	810	rBV	63301	170703	34.83%	6.996%
6	6.757	921	930	946	rBV	139141	341853	69.74%	14.010%
7	8.647	1234	1240	1259	rBV	303424	490169	100.00%	20.089%
8	10.049	1465	1470	1487	rBV	286976	419154	85.51%	17.178%
9	11.079	1634	1639	1650	rBV	218423	282635	57.66%	11.583%
10	12.018	1788	1793	1804	rBV	248544	326873	66.69%	13.396%

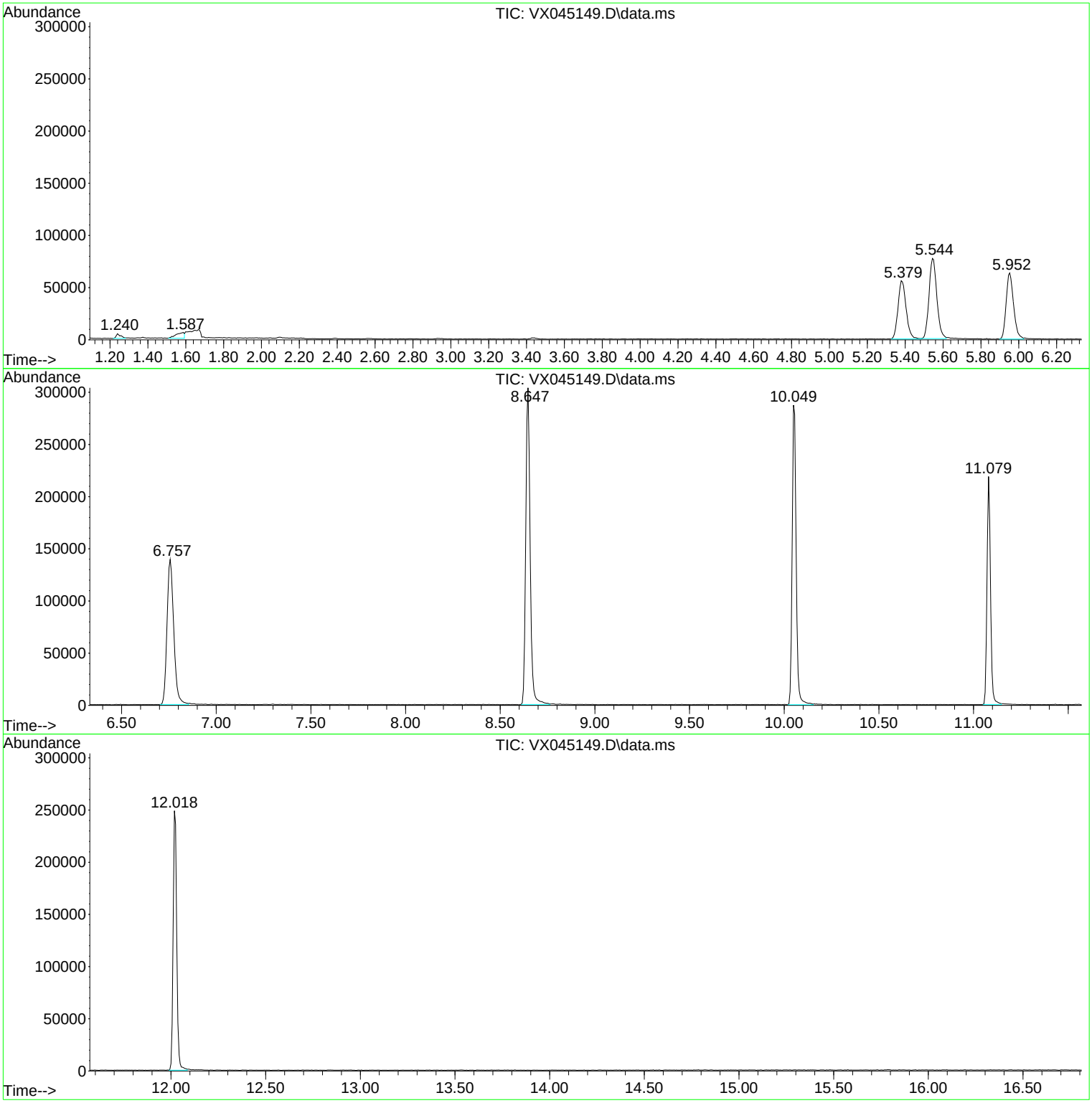
Sum of corrected areas: 2440044

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045149.D
Acq On : 05 Mar 2025 17:52
Operator : JC/MD
Sample : Q1488-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03042025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Time: Mar 06 00:59:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

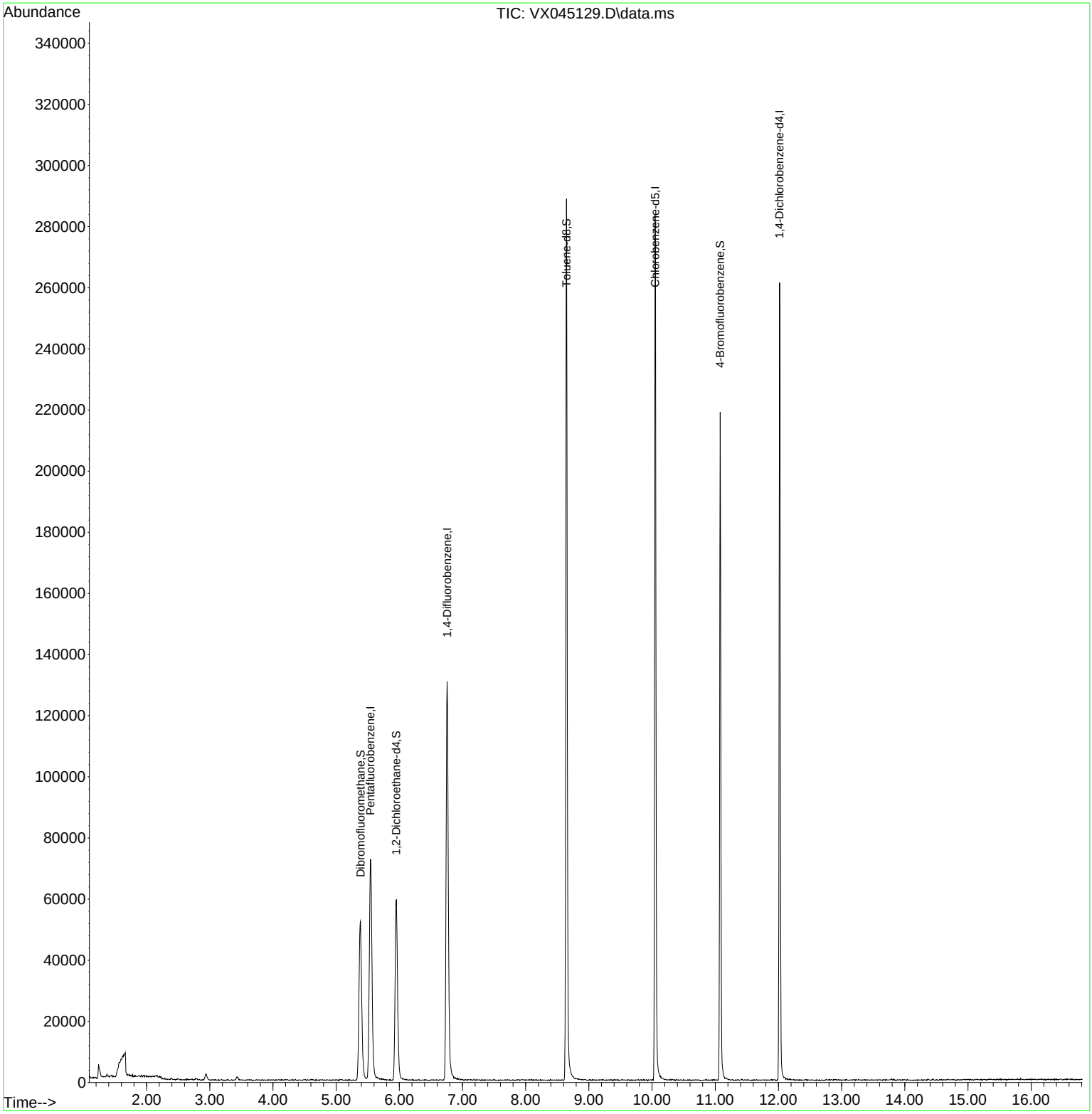
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	68143	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136785	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	125445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	57117	52.695	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.400%			
35) Dibromofluoromethane	5.385	113	46625	50.976	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%			
50) Toluene-d8	8.647	98	169234	51.037	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	56568	51.482	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.960%			
Target Compounds						Qvalue

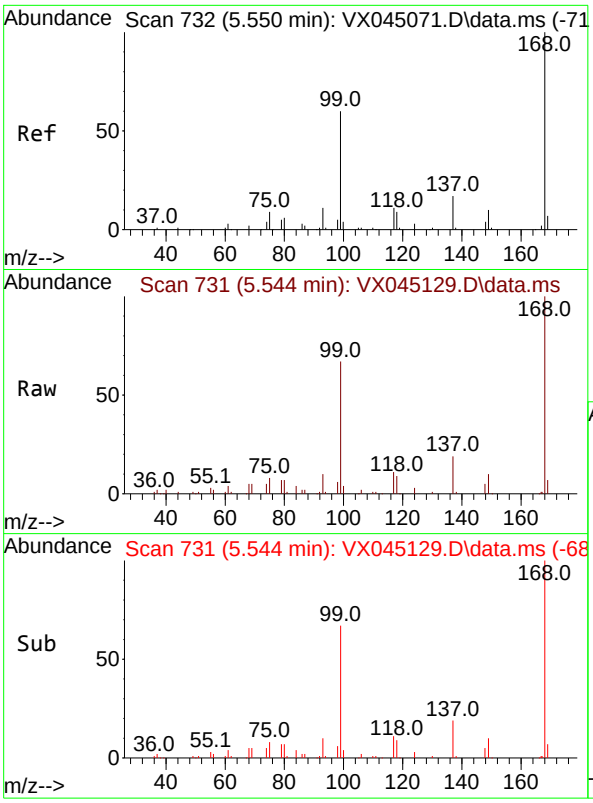
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Time: Mar 06 00:59:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



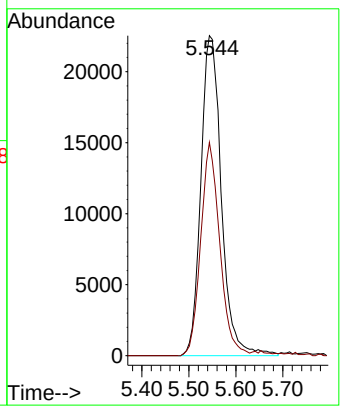


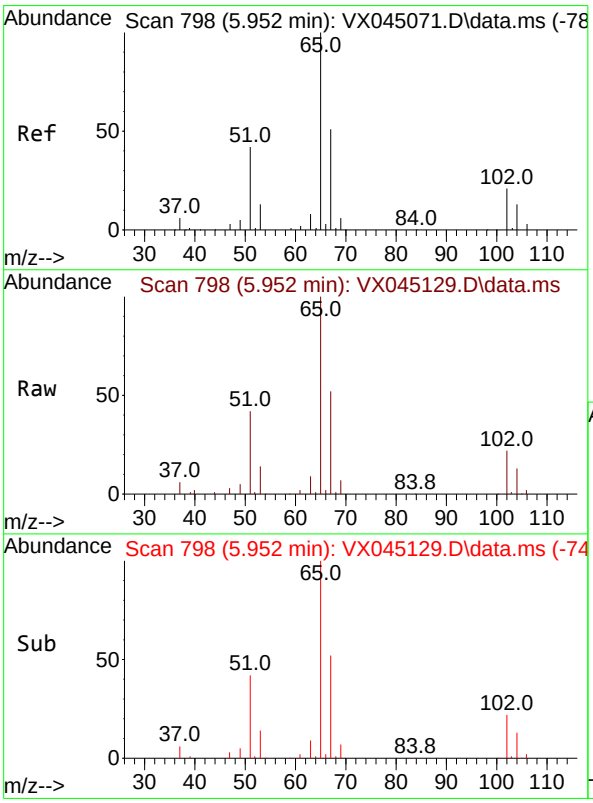
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:168 Resp: 68143

Ion	Ratio	Lower	Upper
168	100		
99	66.6	48.2	72.4

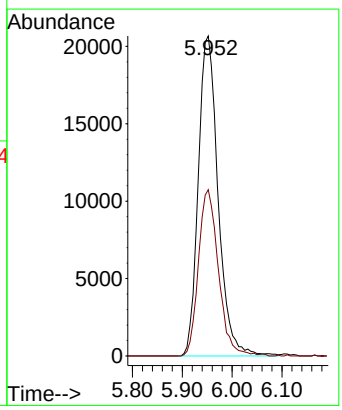


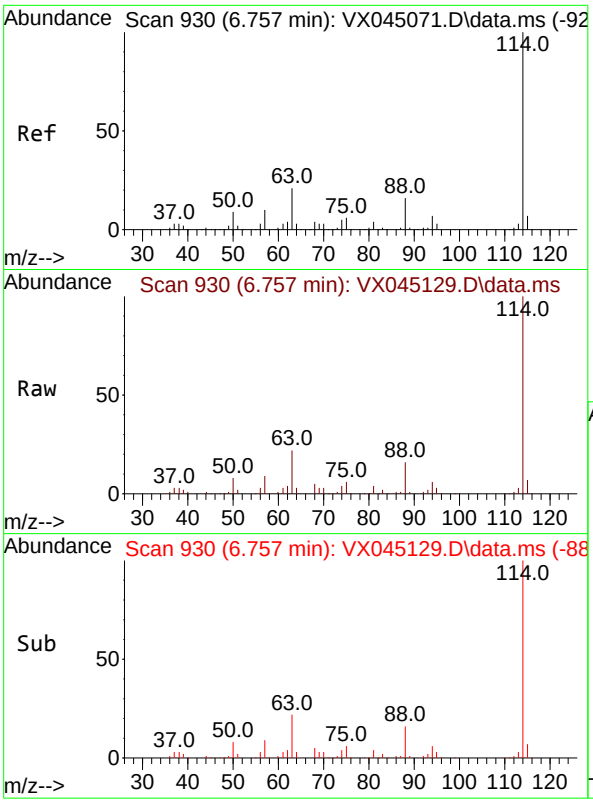


#33
1,2-Dichloroethane-d4
Concen: 52.695 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion: 65 Resp: 57117

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.2



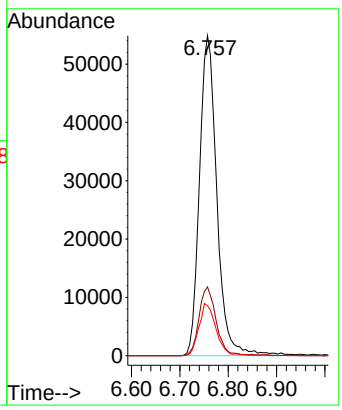


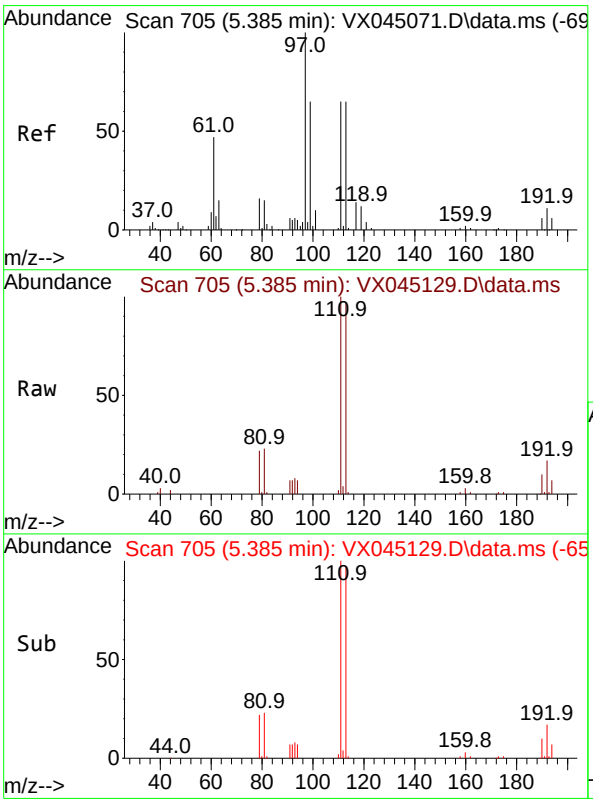
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:114 Resp: 136785

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	41.8
88	15.7	0.0	32.8

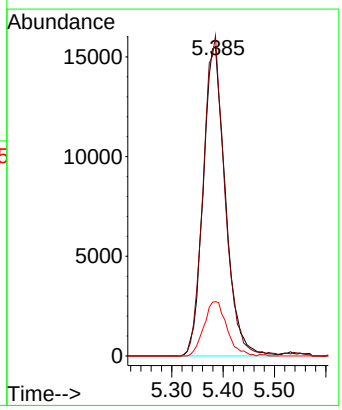


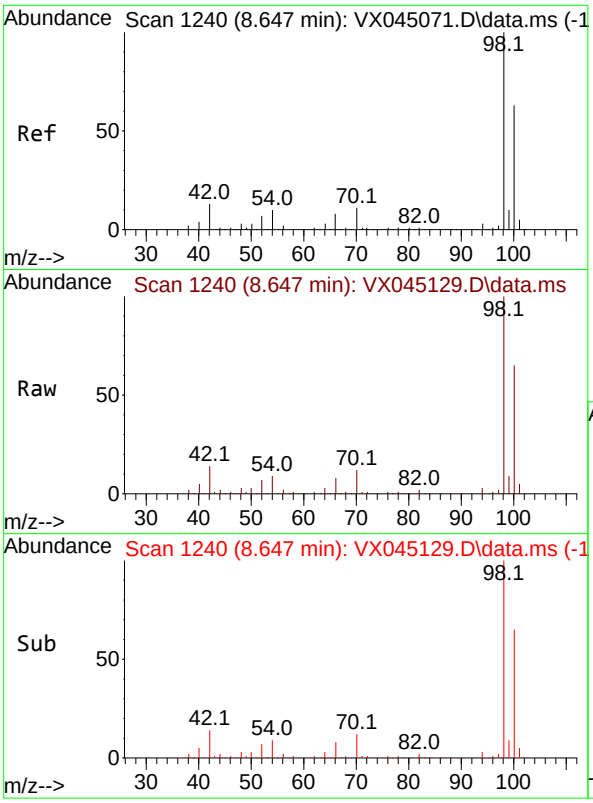


#35
Dibromofluoromethane
Concen: 50.976 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion:113 Resp: 46625

Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.8	122.6
192	18.1	14.3	21.5



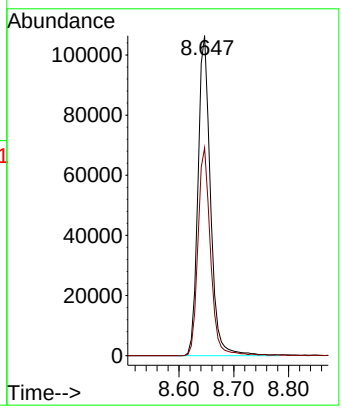


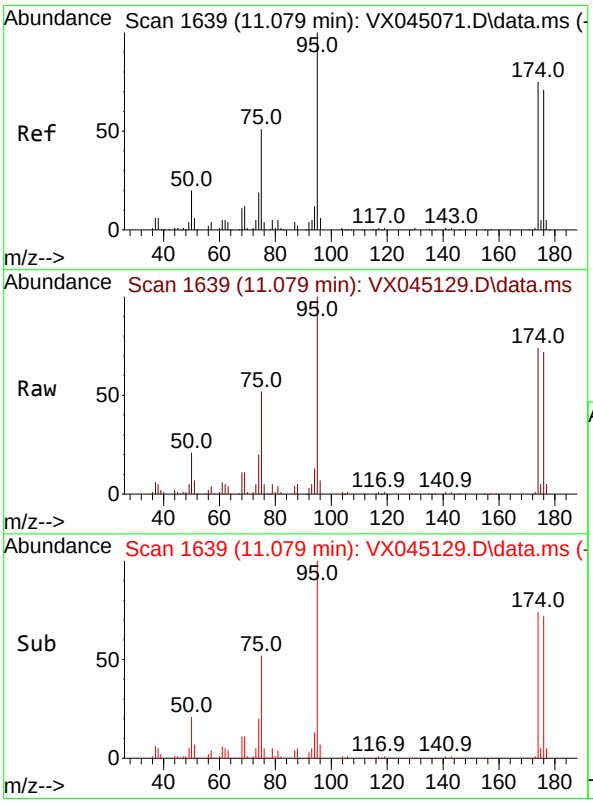
#50
Toluene-d8
Concen: 51.037 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion: 98 Resp: 169234

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0

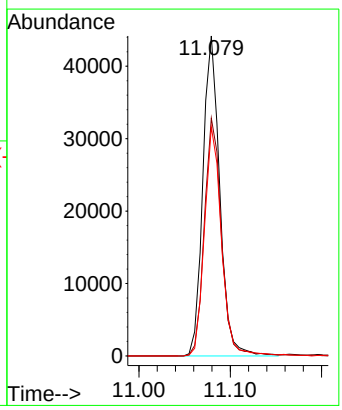


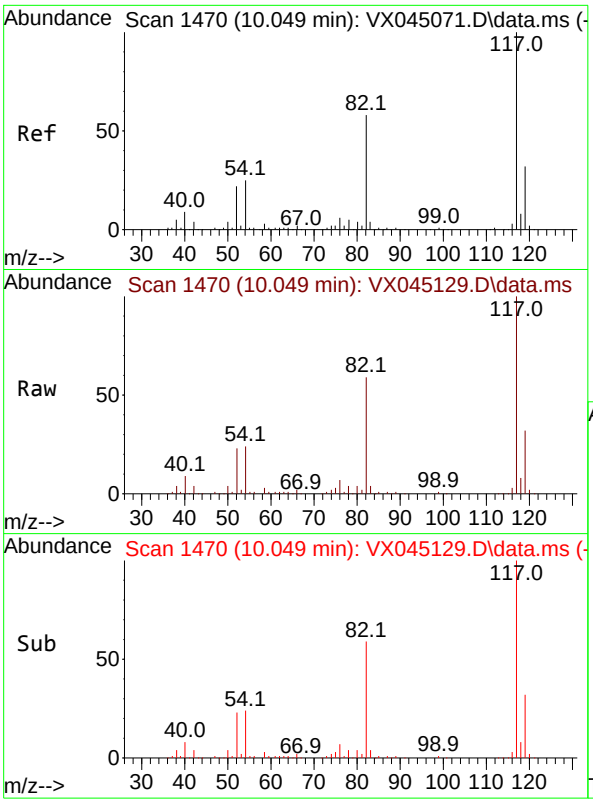


#62
4-Bromofluorobenzene
Concen: 51.482 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion: 95 Resp: 56568

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	148.2
176	72.4	0.0	141.4



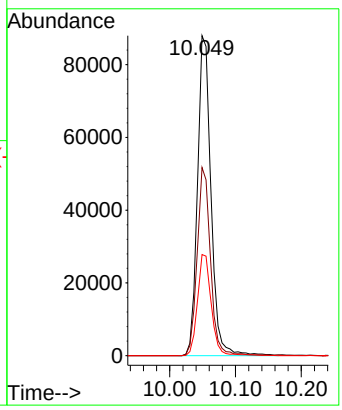


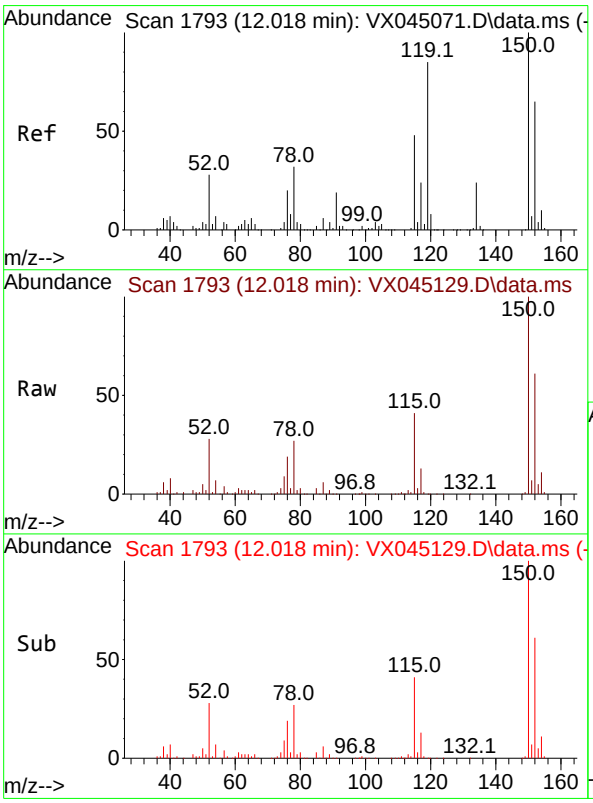
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:117 Resp: 125445

Ion	Ratio	Lower	Upper
117	100		
82	58.8	46.3	69.5
119	31.6	25.7	38.5

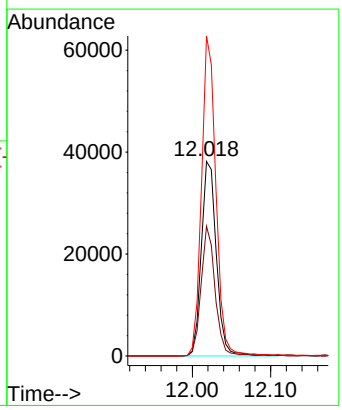




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion:152 Resp: 50961

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.2	132.6
150	158.0	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

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_X\Method\82X022825W.M
Title : SW846 8260

Signal : TIC: VX045129.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	34	rBV2	4585	9025	1.96%	0.386%
2	1.563	69	78	79	rBV4	4725	9424	2.04%	0.403%
3	5.385	695	705	719	rBV	51879	154017	33.38%	6.584%
4	5.544	721	731	746	rVV	71740	205467	44.53%	8.783%
5	5.952	786	798	814	rBV	59212	161982	35.11%	6.924%
6	6.757	921	930	945	rBV	130477	322367	69.87%	13.780%
7	8.647	1233	1240	1257	rBV	288427	461364	100.00%	19.721%
8	10.049	1465	1470	1488	rBV	283057	403560	87.47%	17.251%
9	11.079	1634	1639	1651	rBV	218519	281517	61.02%	12.034%
10	12.018	1788	1793	1804	rBV	260936	330683	71.68%	14.135%

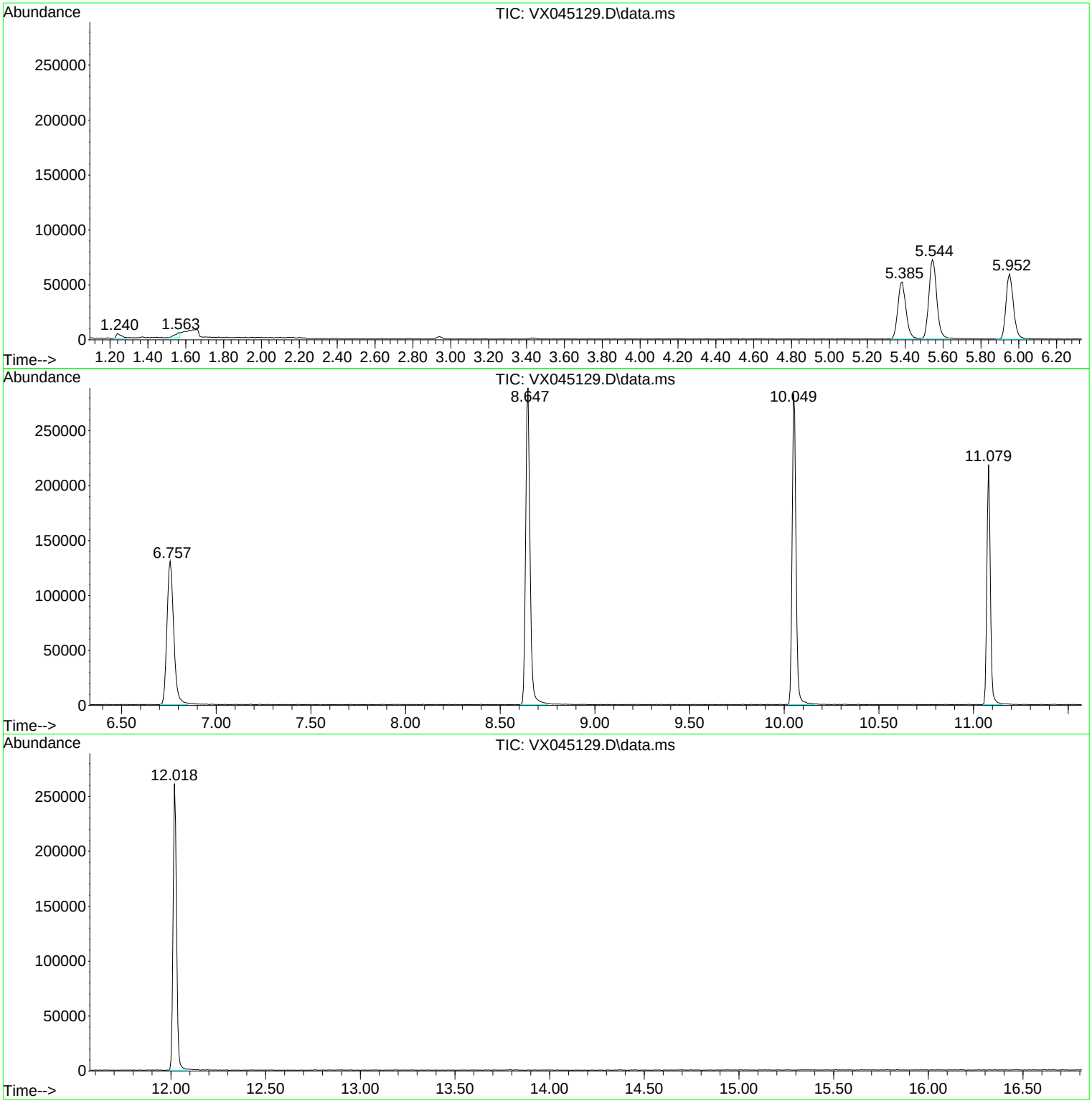
Sum of corrected areas: 2339406

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	71177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139793	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61044	53.917	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.840%			
35) Dibromofluoromethane	5.379	113	48946	52.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%			
50) Toluene-d8	8.647	98	177288	52.315	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.640%			
62) 4-Bromofluorobenzene	11.079	95	58160	51.792	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			

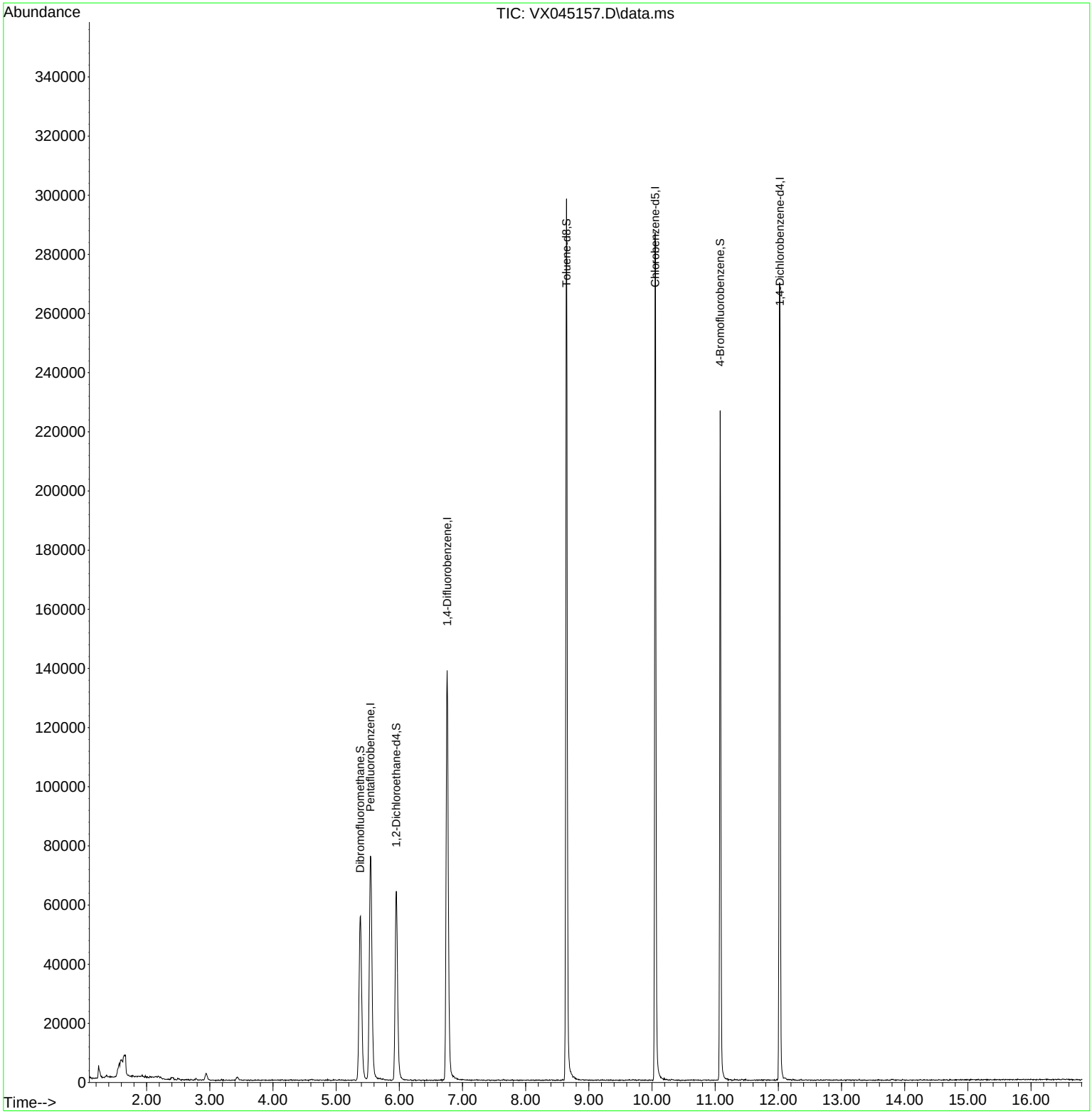
Target Compounds Qvalue

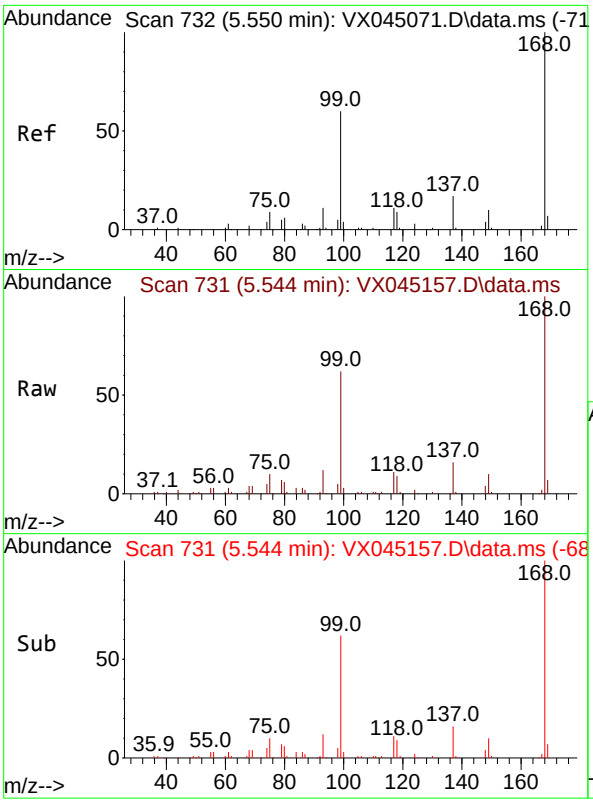
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



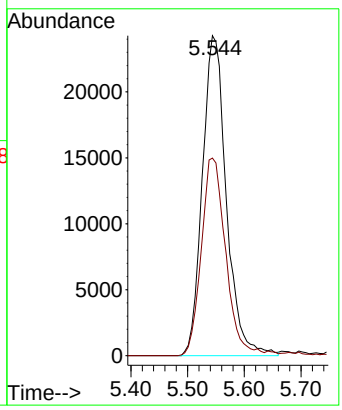


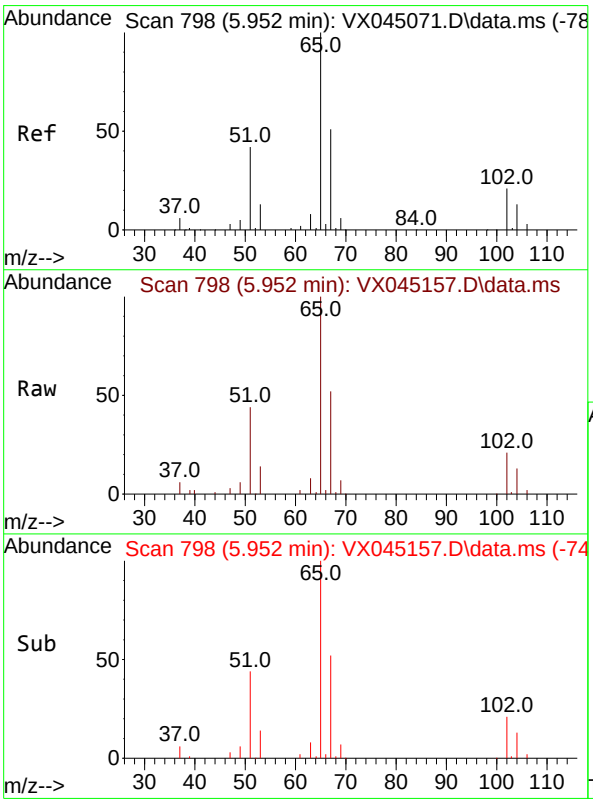
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:168 Resp: 71177

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

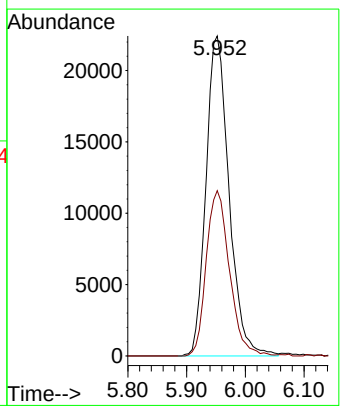




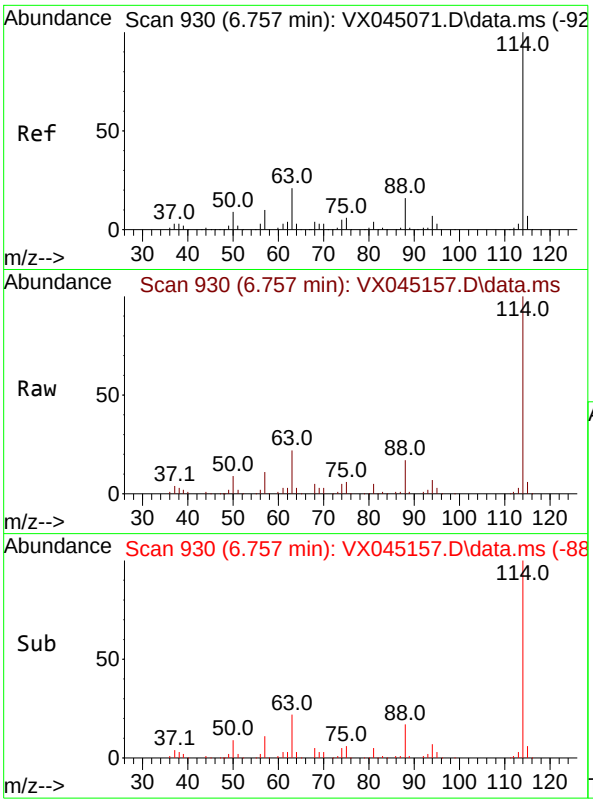
#33
1,2-Dichloroethane-d4
Concen: 53.917 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 65 Resp: 61044

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.2



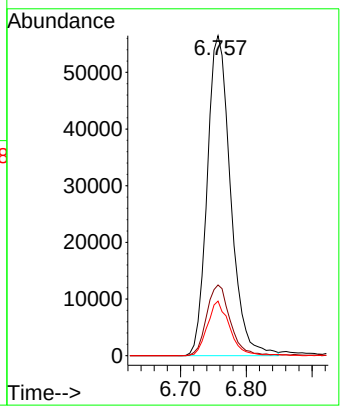
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

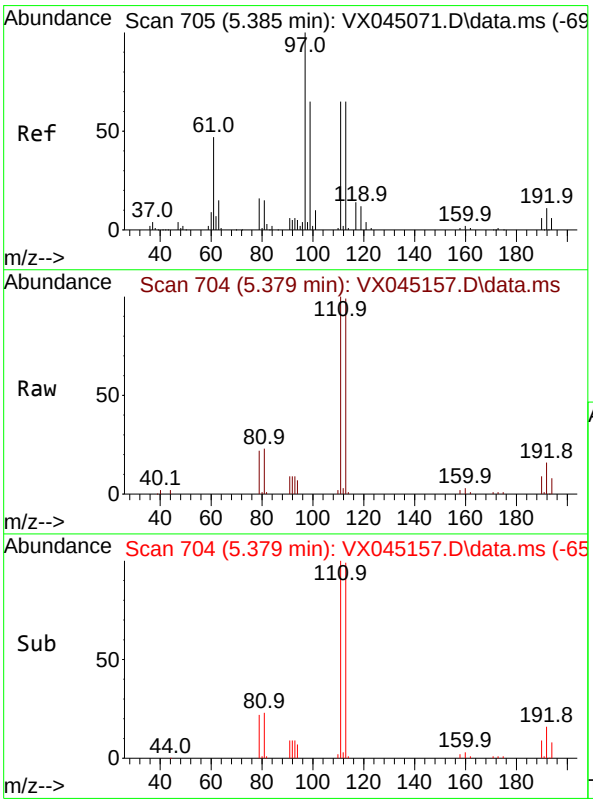


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:114 Resp: 139793

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	17.1	0.0	32.8

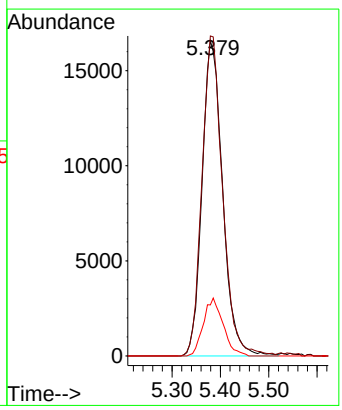


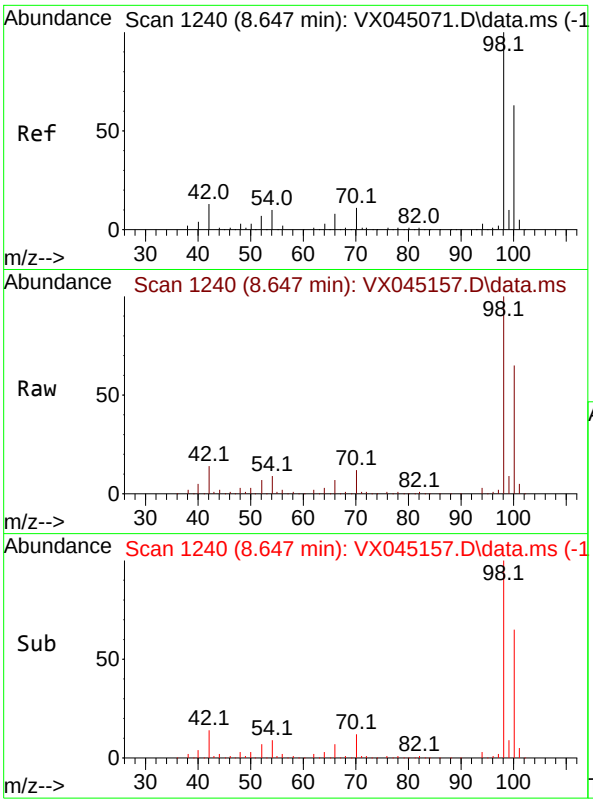


#35
Dibromofluoromethane
Concen: 52.362 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:113 Resp: 48946

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	17.7	14.3	21.5



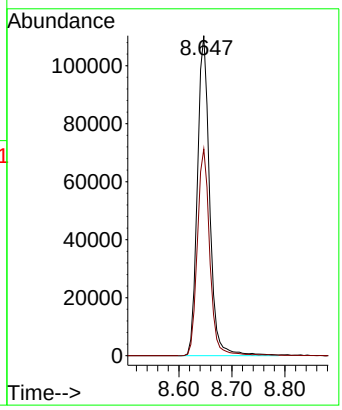


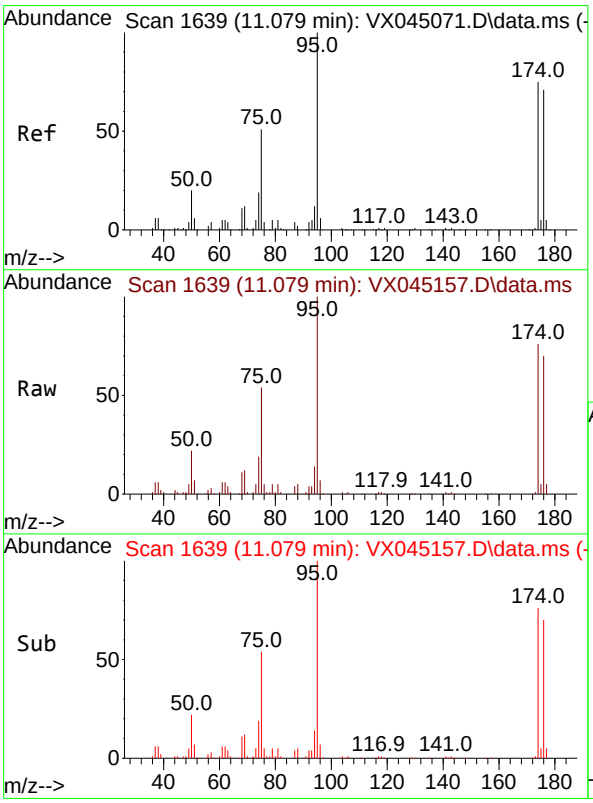
#50
Toluene-d8
Concen: 52.315 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion: 98 Resp: 177288

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.0	78.0

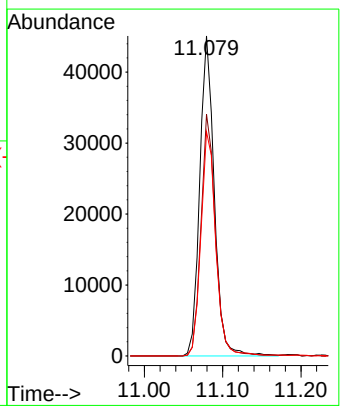


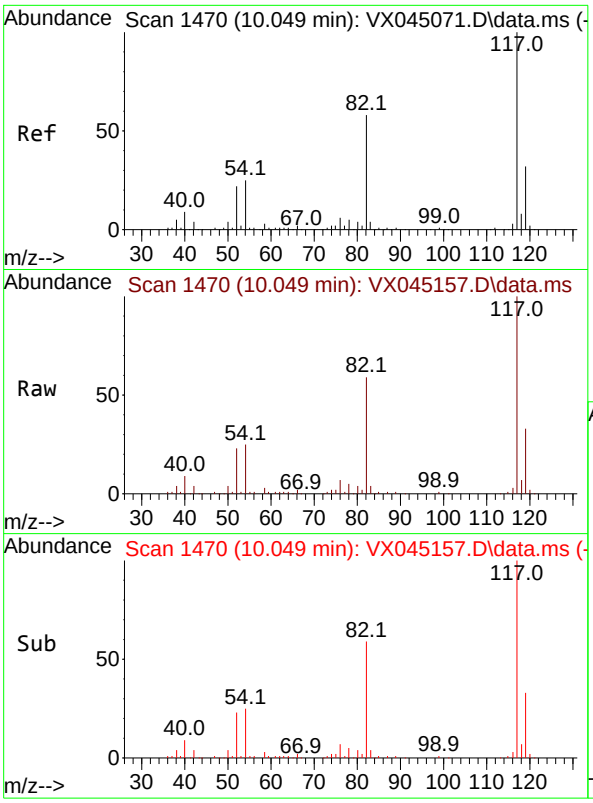


#62
4-Bromofluorobenzene
Concen: 51.792 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 95 Resp: 58160

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	148.2
176	71.7	0.0	141.4



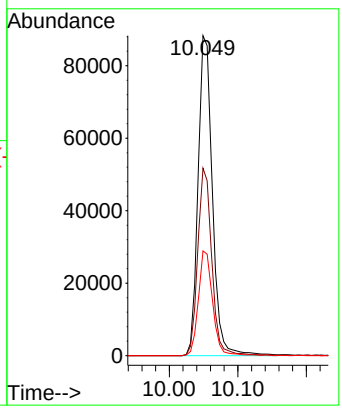


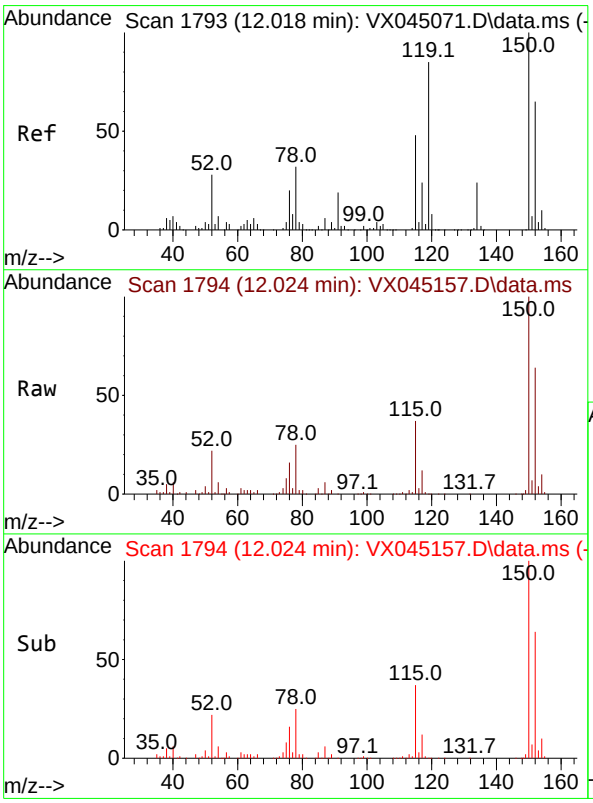
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:117 Resp: 129041

Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.3	69.5
119	32.8	25.7	38.5

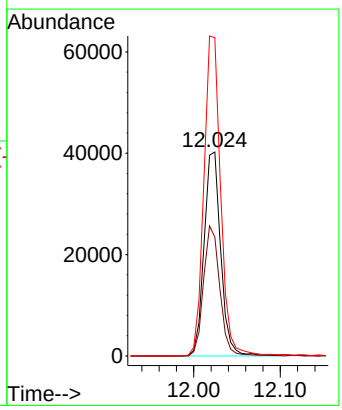




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:152 Resp: 53719

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.2	132.6
150	159.1	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

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_X\Method\82X022825W.M
Title : SW846 8260

Signal : TIC: VX045157.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV3	4319	7132	1.48%	0.290%
2	1.569	70	79	80	rBV3	4531	9642	2.00%	0.393%
3	2.941	298	304	311	rBV4	2309	5388	1.12%	0.219%
4	5.385	692	705	720	rBV2	55591	164180	33.98%	6.686%
5	5.544	721	731	747	rVV2	75358	217899	45.10%	8.873%
6	5.952	785	798	821	rBV2	64025	173958	36.00%	7.084%
7	6.757	921	930	945	rBV	138474	338726	70.10%	13.793%
8	8.647	1233	1240	1256	rBV	298102	483187	100.00%	19.676%
9	10.049	1465	1470	1484	rBV	286543	414987	85.89%	16.899%
10	11.079	1634	1639	1656	rBV	226269	289583	59.93%	11.792%
11	12.018	1788	1793	1803	rBV	269584	351017	72.65%	14.294%

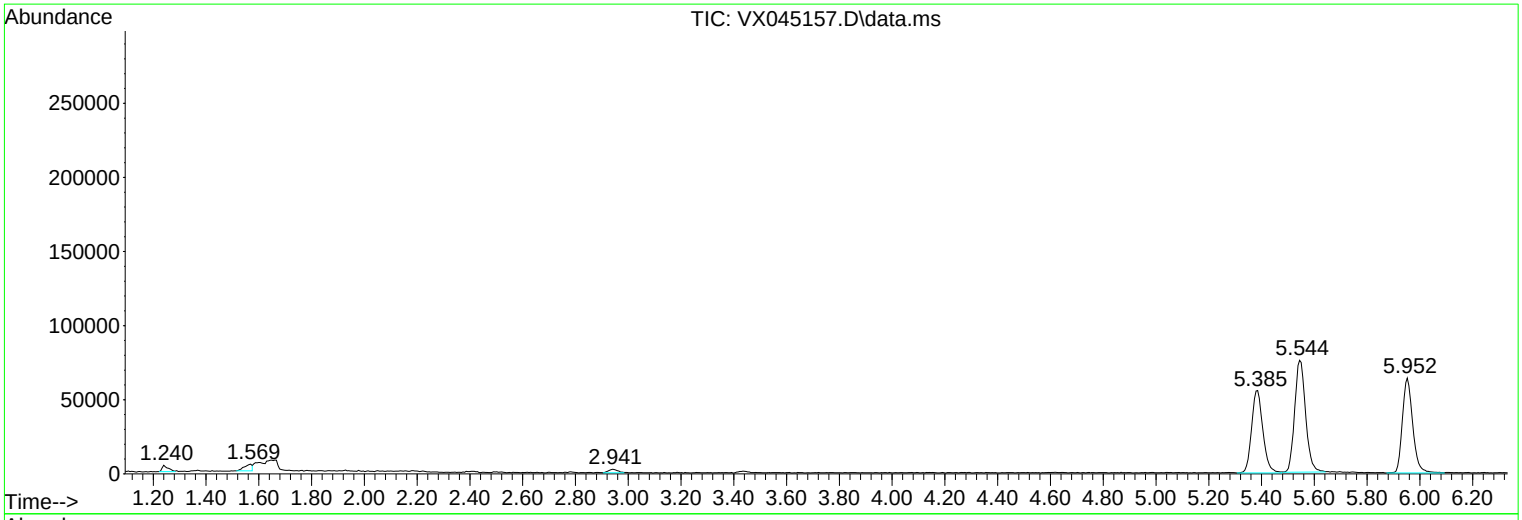
Sum of corrected areas: 2455699

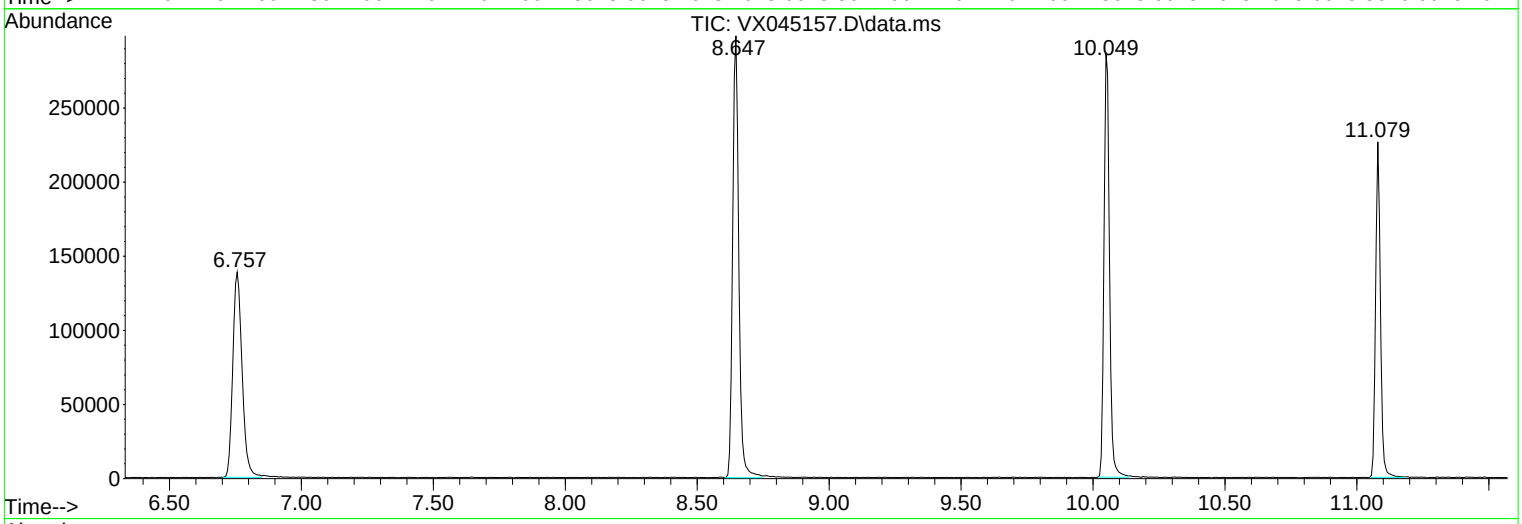
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

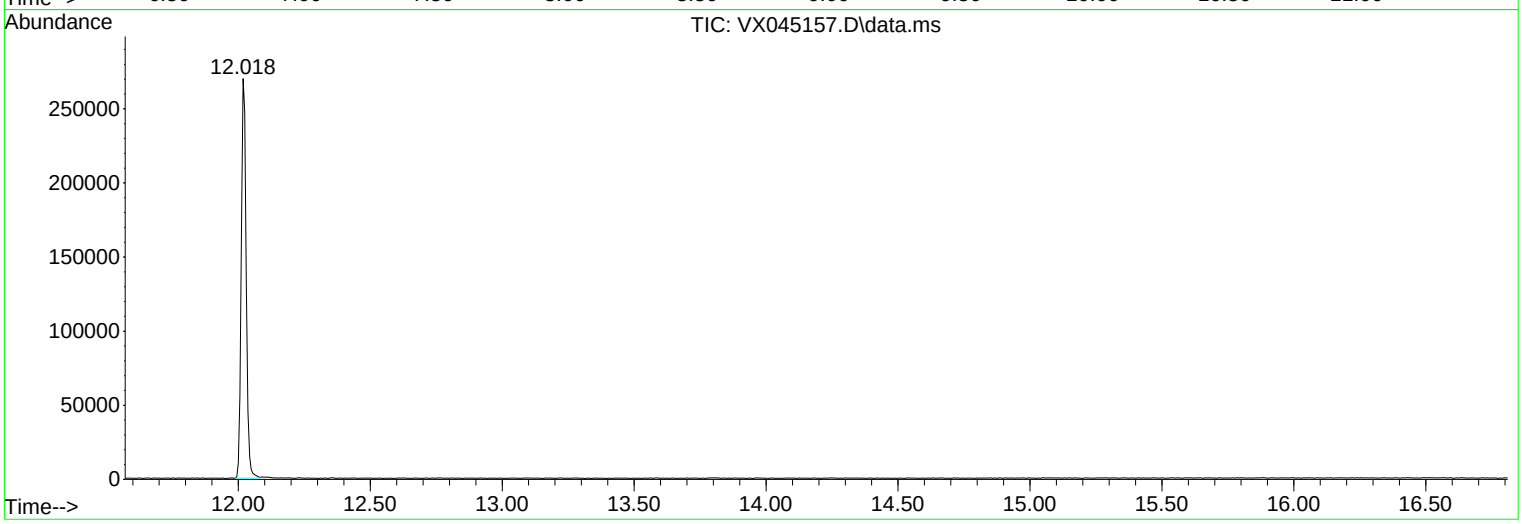
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.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\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Quant Time: Mar 07 00:38:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

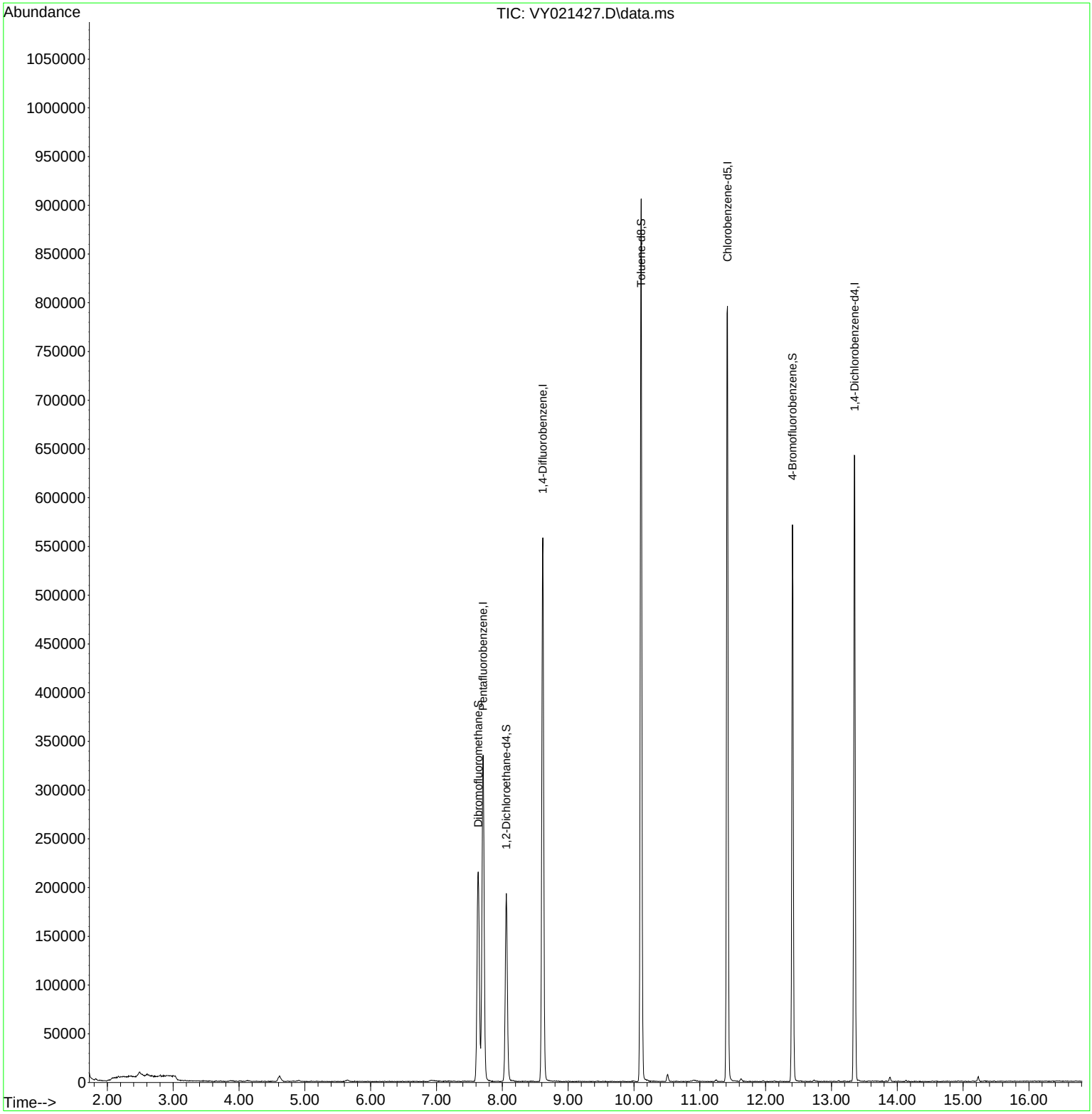
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	249443	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	460921	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	405928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	156000	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	154096	58.448	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.900%			
35) Dibromofluoromethane	7.634	113	154971	51.151	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.300%			
50) Toluene-d8	10.109	98	558007	48.643	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.280%			
62) 4-Bromofluorobenzene	12.408	95	170007	43.568	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.140%			
Target Compounds						Qvalue

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

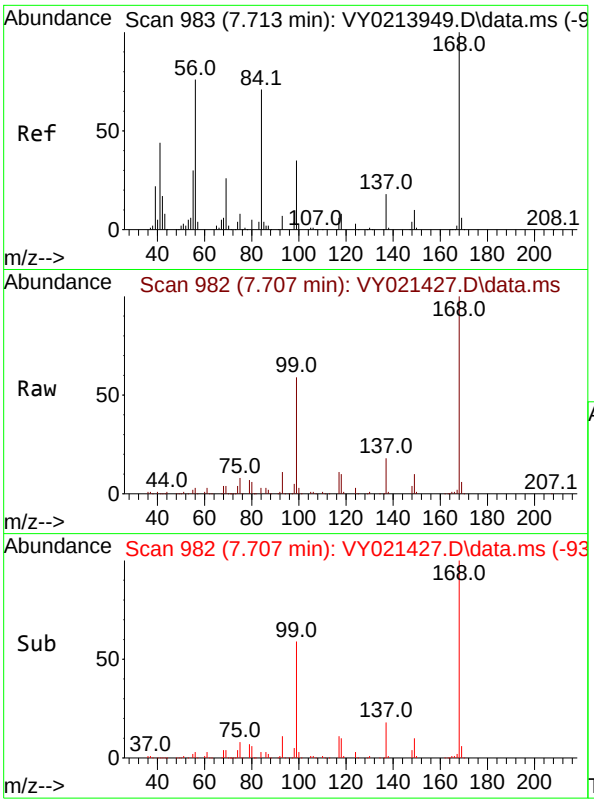
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Quant Time: Mar 07 00:38:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



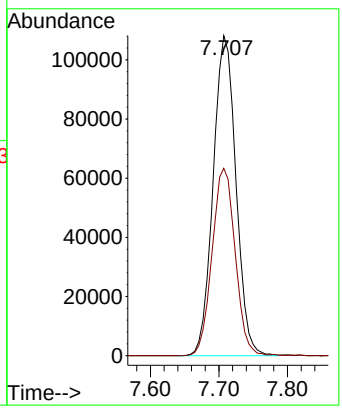
Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

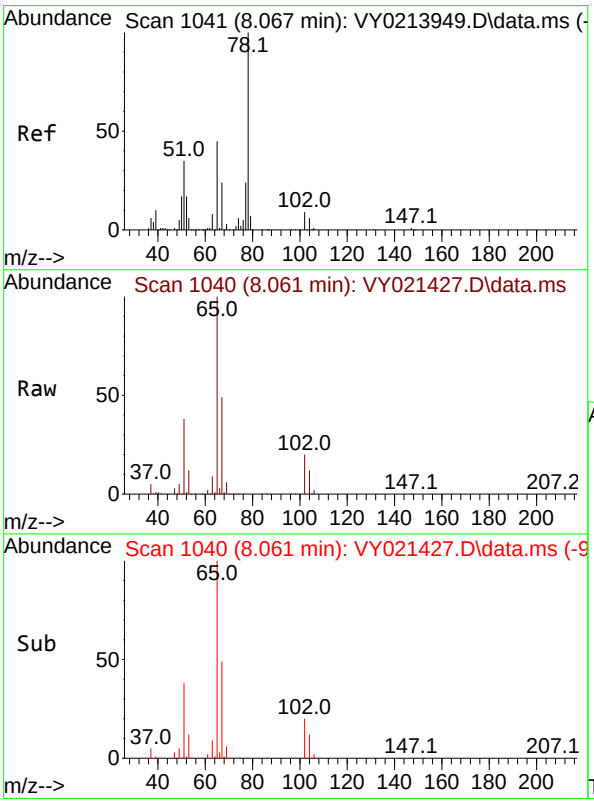


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Tgt Ion:168 Resp: 249443

Ion	Ratio	Lower	Upper
168	100		
99	58.6	46.0	69.0

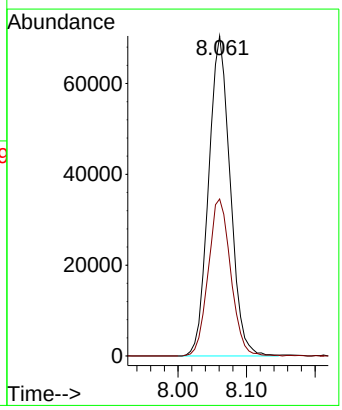


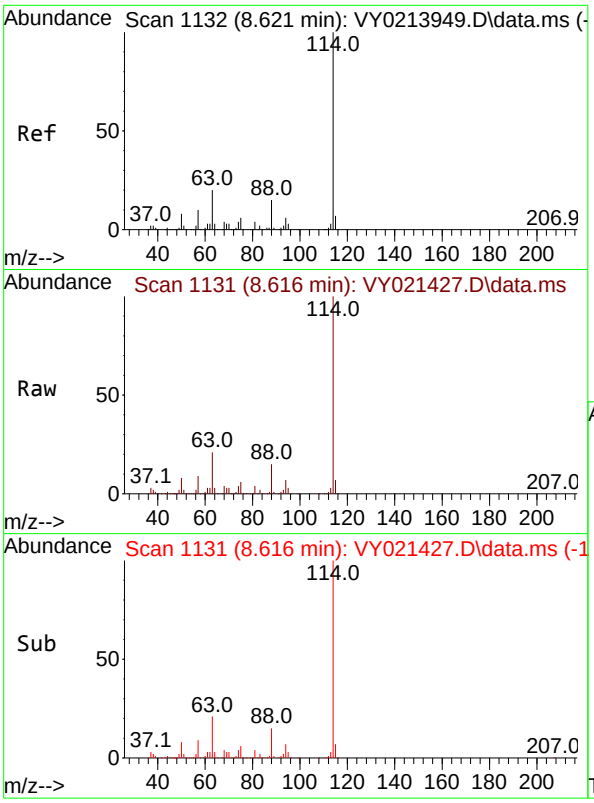


#33
1,2-Dichloroethane-d4
Concen: 58.448 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Tgt Ion: 65 Resp: 154096

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.8



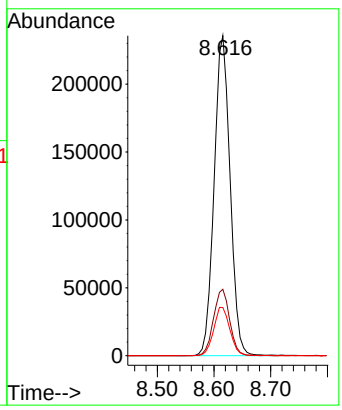


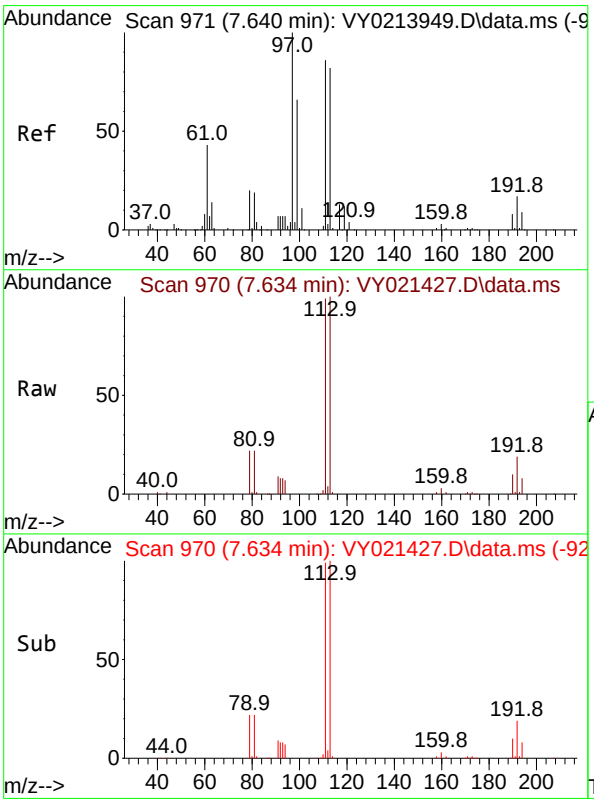
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Tgt Ion:114 Resp: 460921

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	15.1	0.0	30.8

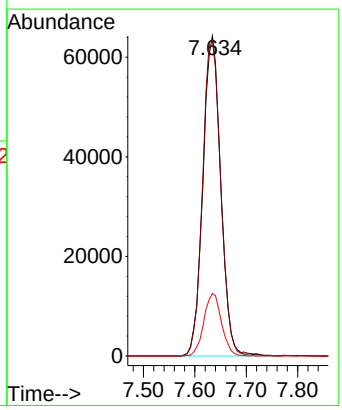


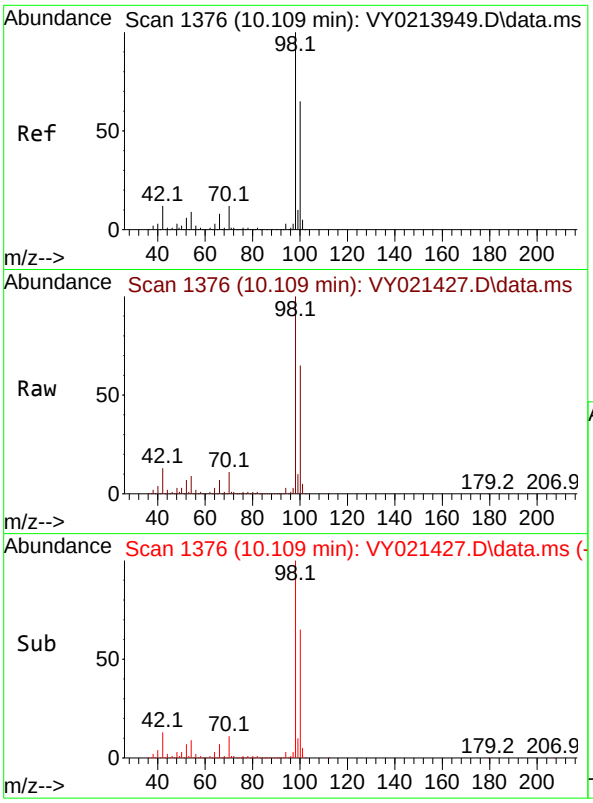


#35
Dibromofluoromethane
Concen: 51.151 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Tgt Ion:113 Resp: 154971

Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.0	123.0
192	19.3	15.9	23.9



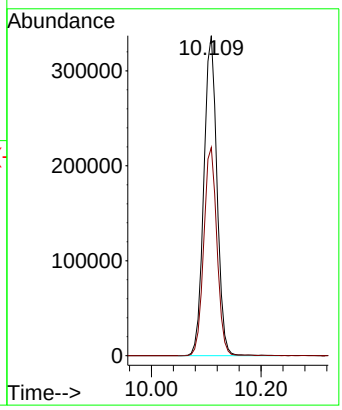


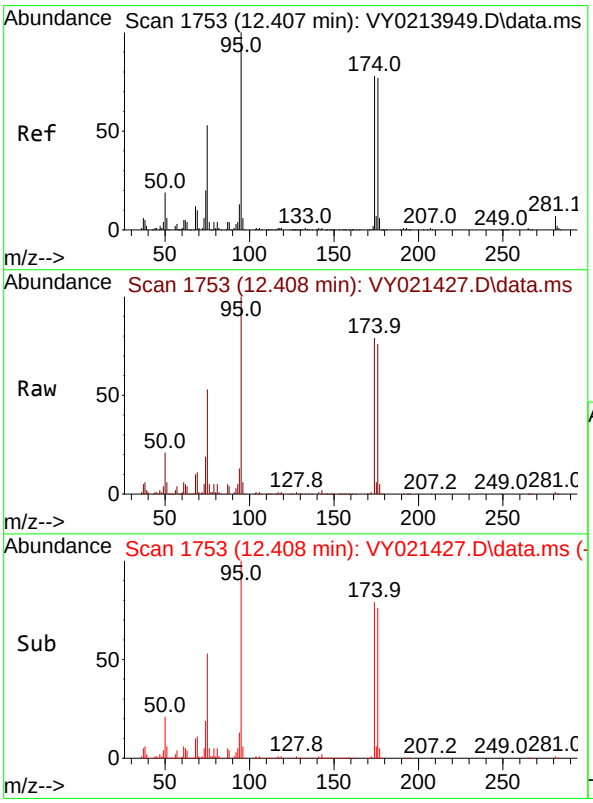
#50
Toluene-d8
Concen: 48.643 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Tgt Ion: 98 Resp: 558007

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.1	78.1

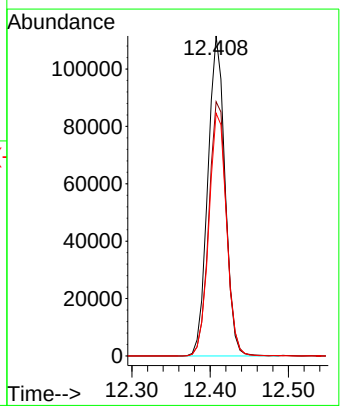


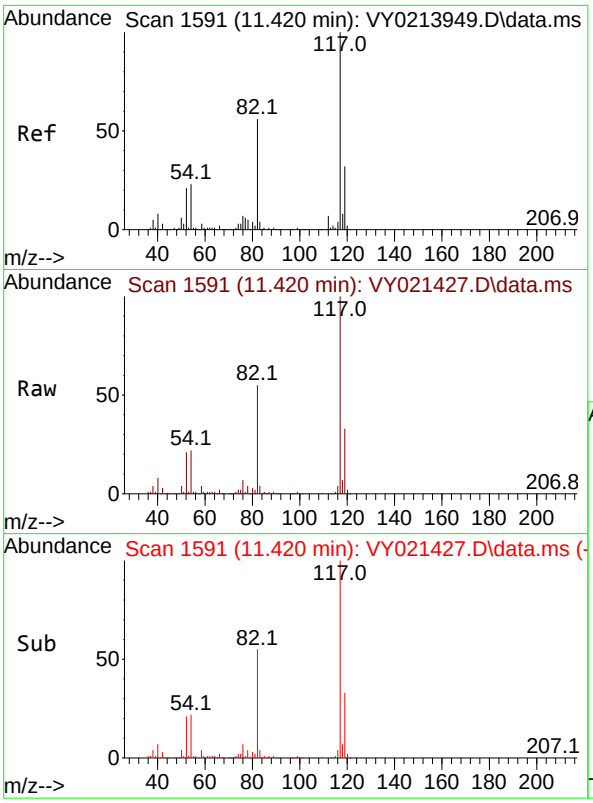


#62
4-Bromofluorobenzene
Concen: 43.568 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Tgt Ion: 95 Resp: 170007

Ion	Ratio	Lower	Upper
95	100		
174	81.5	0.0	165.0
176	77.8	0.0	160.0



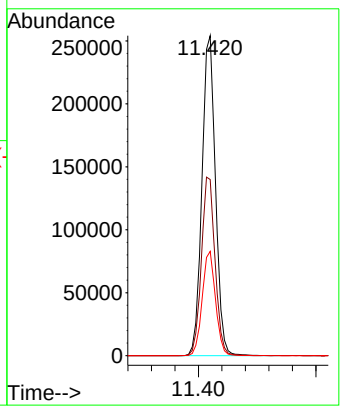


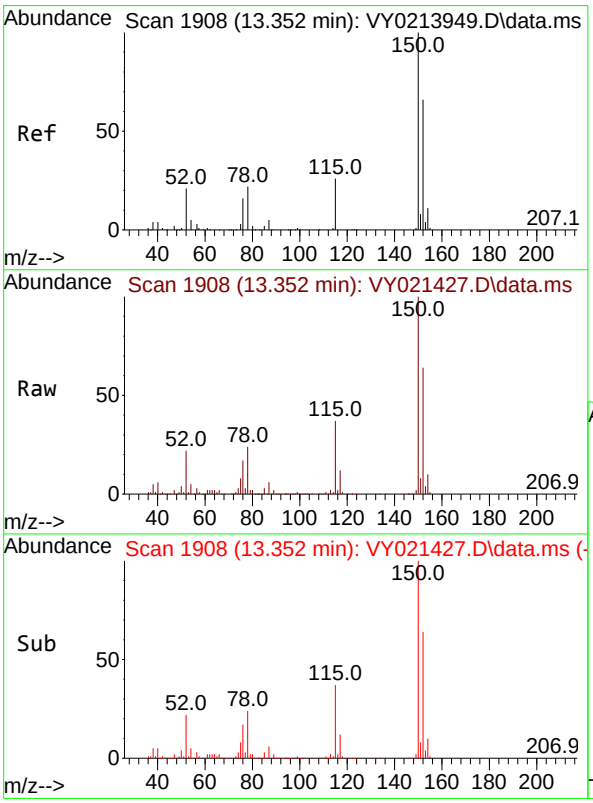
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Tgt Ion:117 Resp: 405928

Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.6	67.0
119	32.6	25.4	38.0

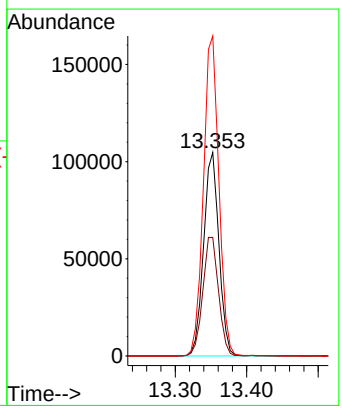




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021427.D
Acq: 06 Mar 2025 11:59

Tgt Ion:152 Resp: 156000

Ion	Ratio	Lower	Upper
152	100		
115	59.9	29.0	87.0
150	158.2	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021427.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.495	117	127	132	rBV5	5042	16150	1.07%	0.213%
2	4.616	465	475	485	rBV4	5719	17642	1.17%	0.233%
3	7.634	960	970	976	rBV2	214988	528018	34.88%	6.966%
4	7.707	976	982	996	rVB	334308	771072	50.93%	10.172%
5	8.061	1027	1040	1051	rBV	193021	432772	28.59%	5.709%
6	8.616	1122	1131	1144	rBV	557966	1109058	73.26%	14.631%
7	10.109	1367	1376	1386	rBV	905768	1513956	100.00%	19.973%
8	11.420	1581	1591	1605	rBV	795449	1300163	85.88%	17.152%
9	12.408	1746	1753	1762	rBV	571400	896843	59.24%	11.831%
10	13.346	1900	1907	1915	rBV	642349	994480	65.69%	13.120%

Sum of corrected areas: 7580154

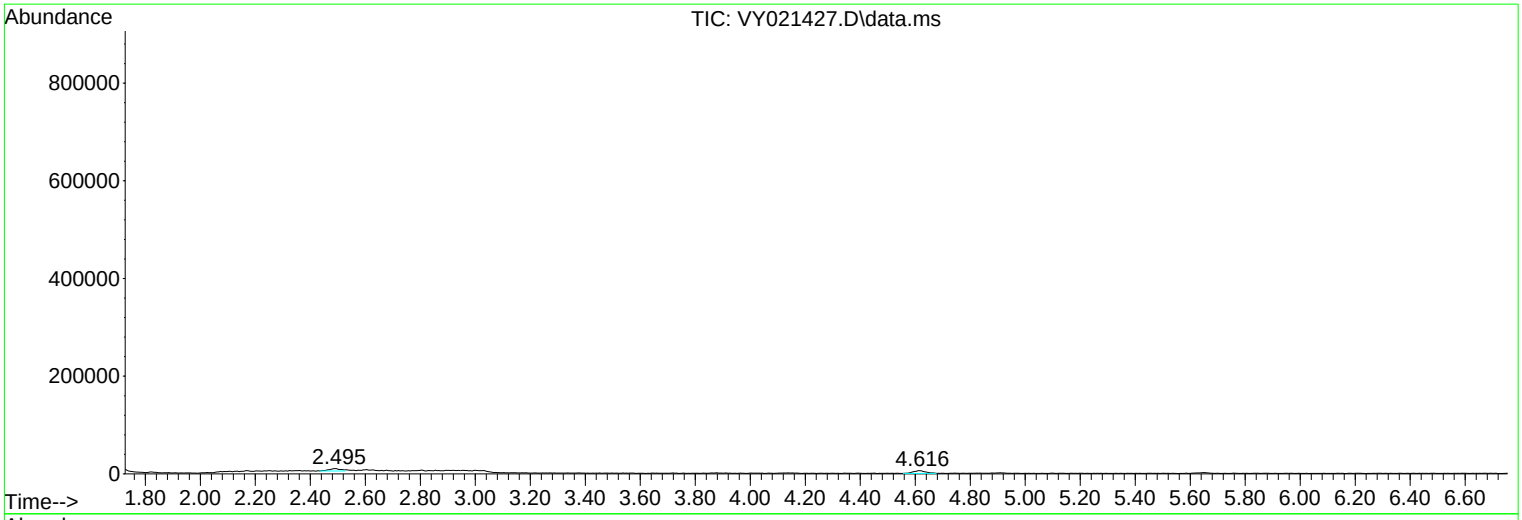
Sample Results: **VY021427.D**

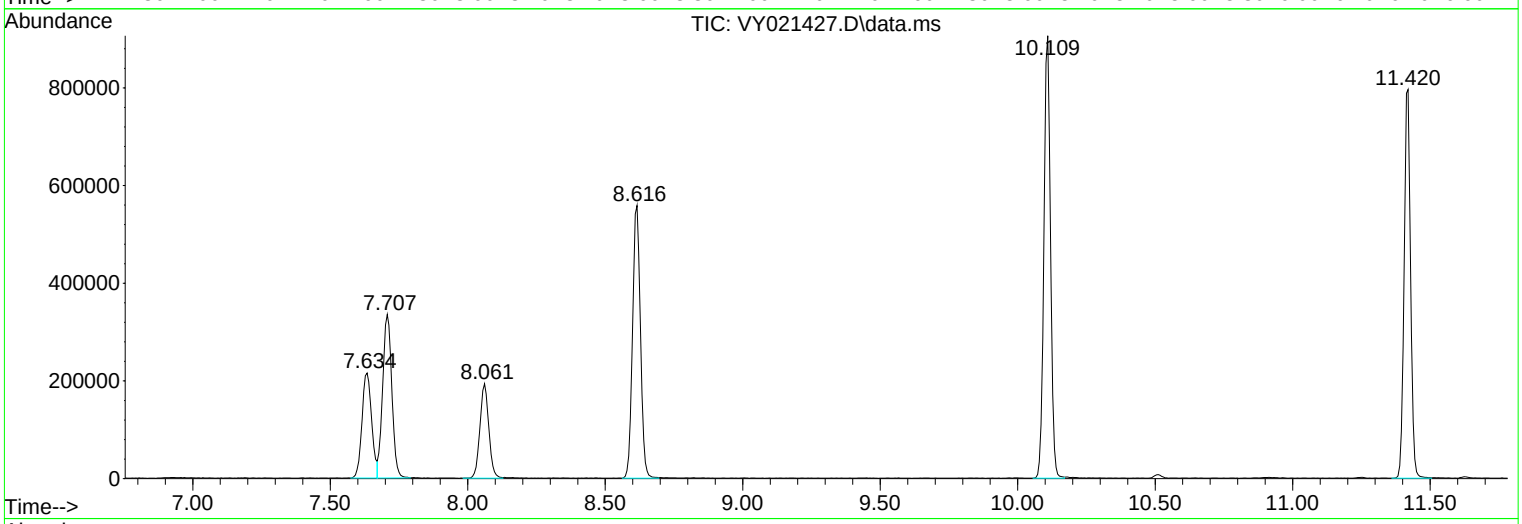
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

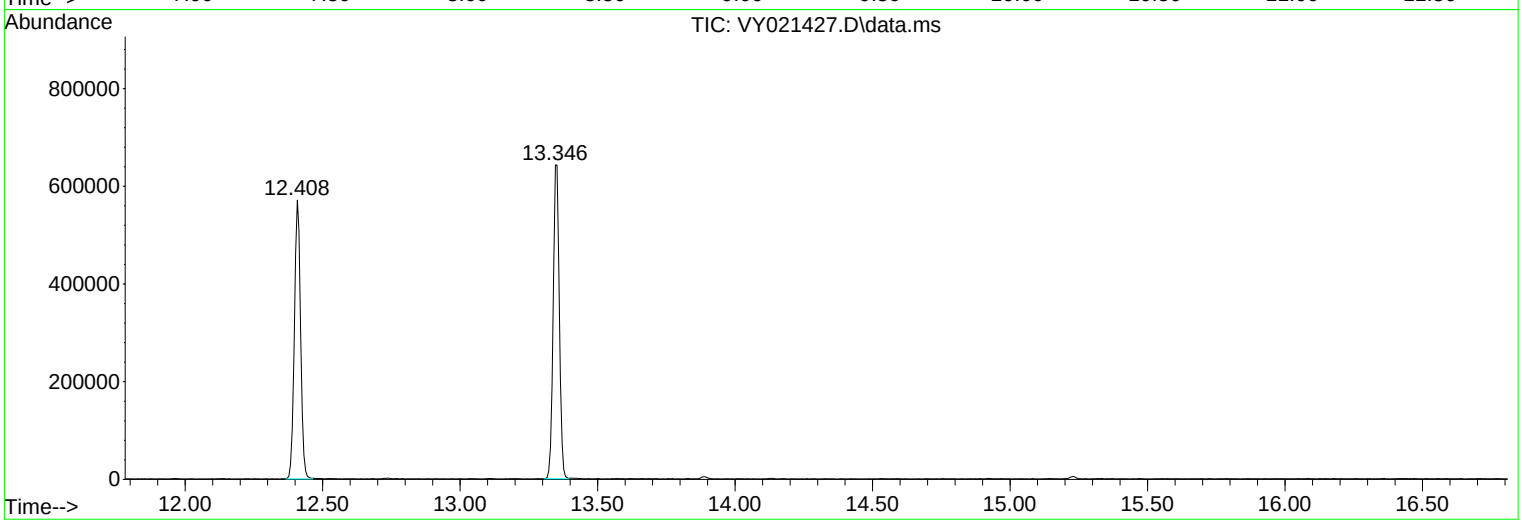
Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030625\
Data File : VY021427.D
Acq On : 06 Mar 2025 11:59
Operator : SY/MD
Sample : VY0306SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Quant Time: Mar 07 21:59:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	247432	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	455944	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	386511	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	140975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144872	55.396	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.800%			
35) Dibromofluoromethane	7.634	113	150461	50.204	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.400%			
50) Toluene-d8	10.109	98	550853	48.544	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.080%			
62) 4-Bromofluorobenzene	12.408	95	154713	40.081	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.160%			

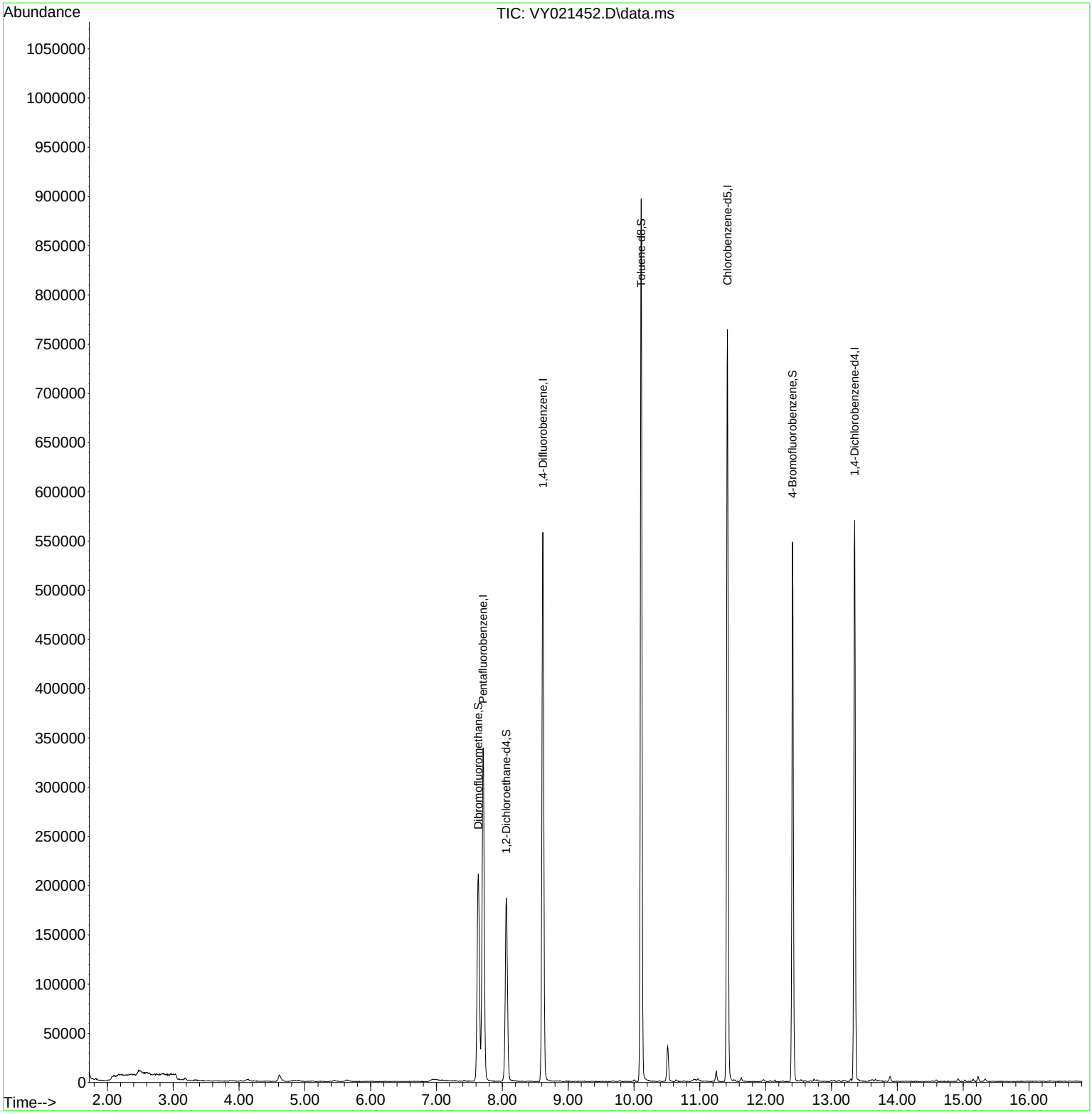
Target Compounds Qvalue

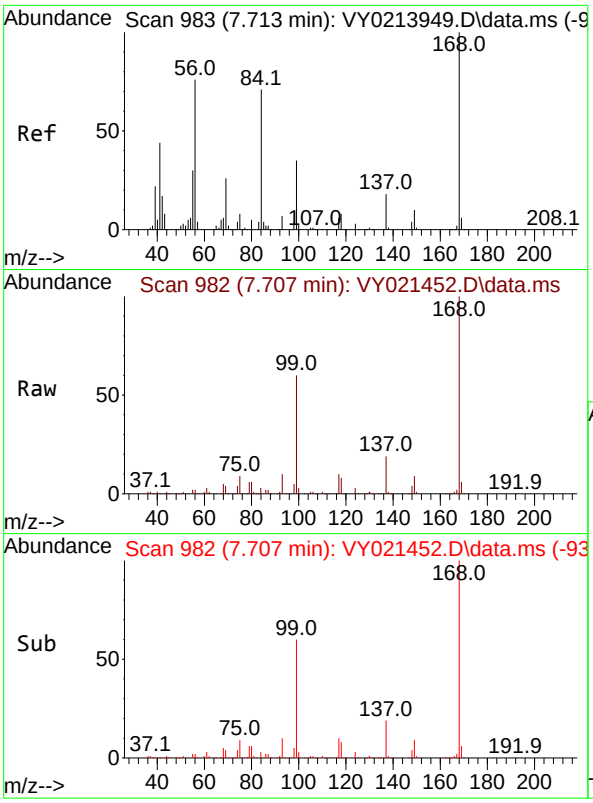
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Quant Time: Mar 07 21:59:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



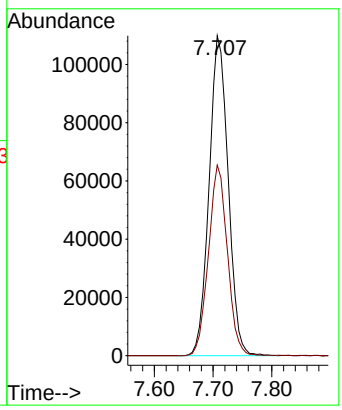


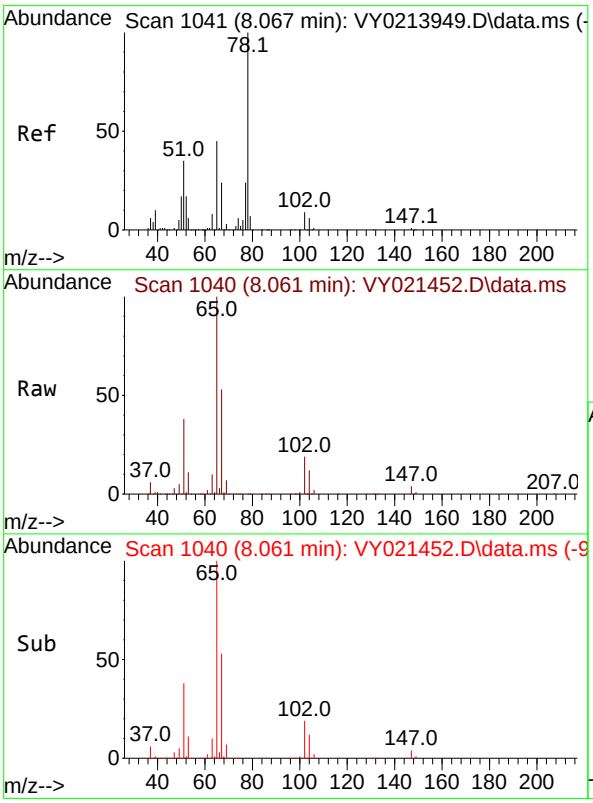
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Tgt Ion:168 Resp: 247432

Ion	Ratio	Lower	Upper
168	100		
99	59.5	46.0	69.0

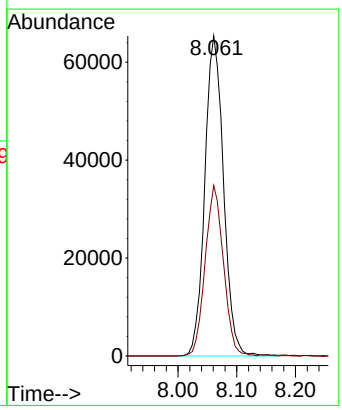


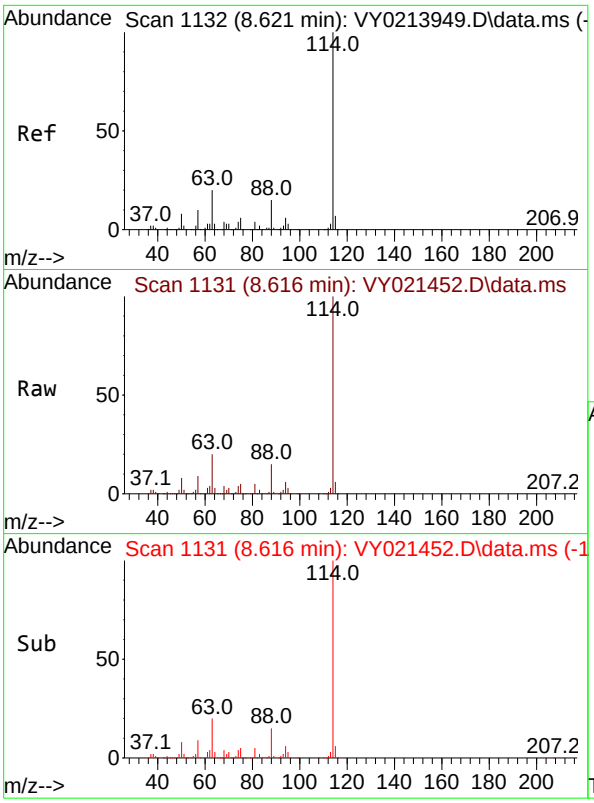


#33
1,2-Dichloroethane-d4
Concen: 55.396 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Tgt Ion: 65 Resp: 144872

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.8



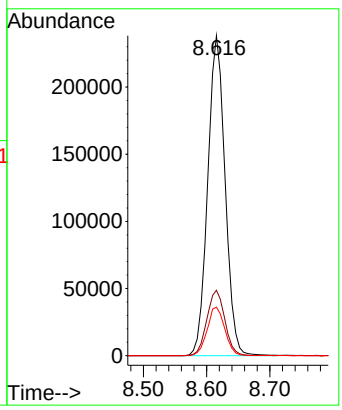


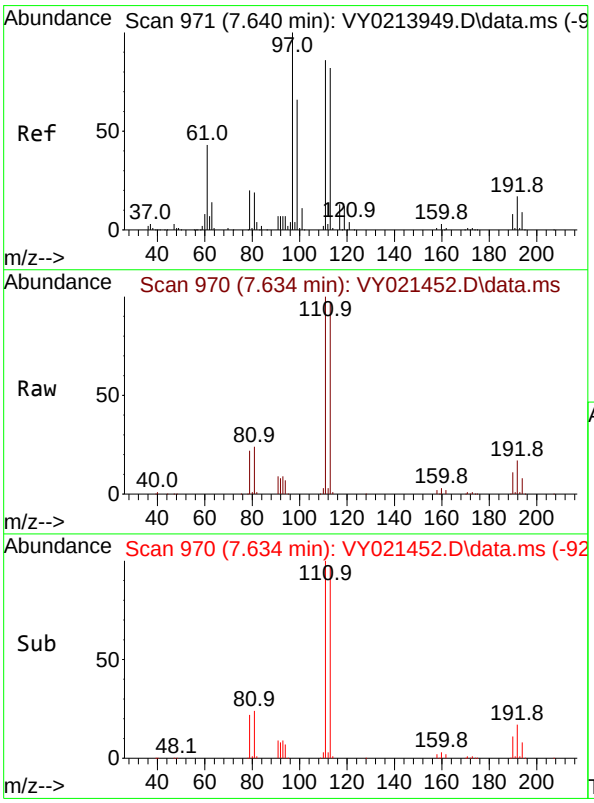
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Tgt Ion:114 Resp: 455944

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	15.1	0.0	30.8

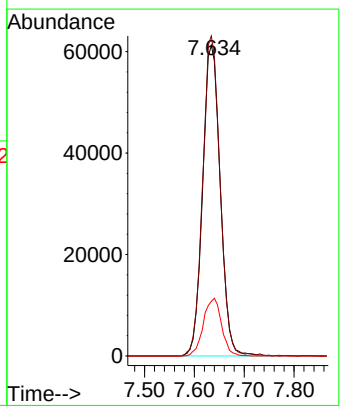


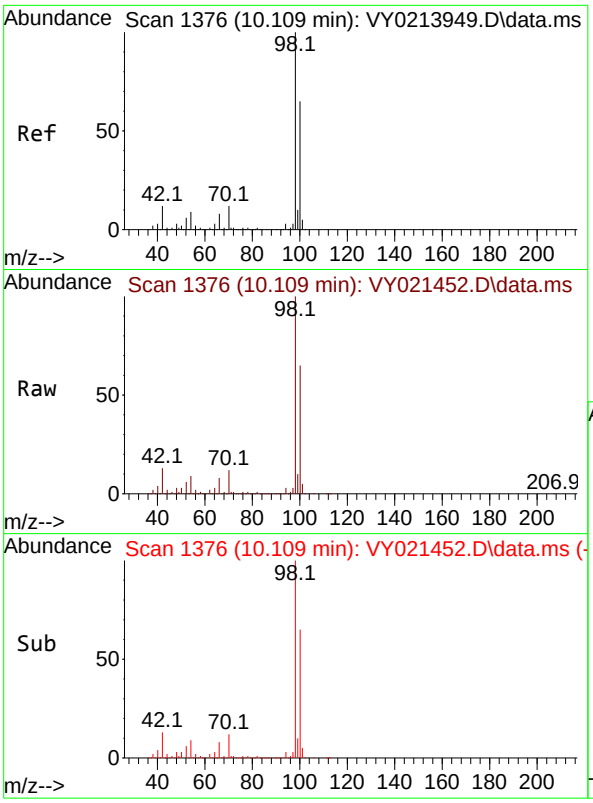


#35
Dibromofluoromethane
Concen: 50.204 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Tgt Ion:113 Resp: 150461

Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.0	123.0
192	19.1	15.9	23.9



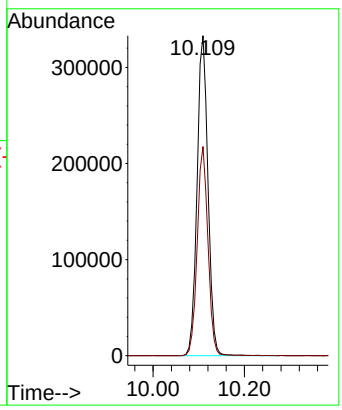


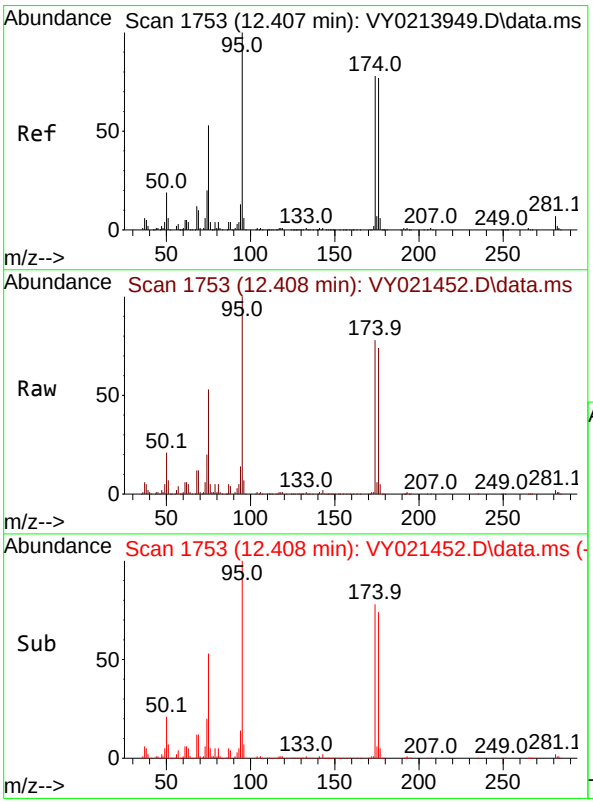
#50
Toluene-d8
Concen: 48.544 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Tgt Ion: 98 Resp: 550853

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

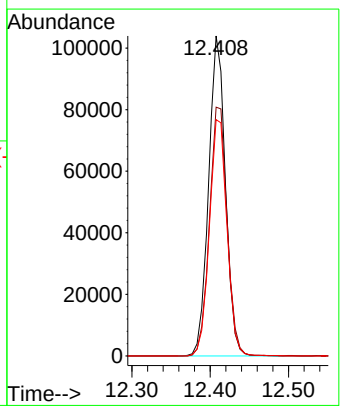


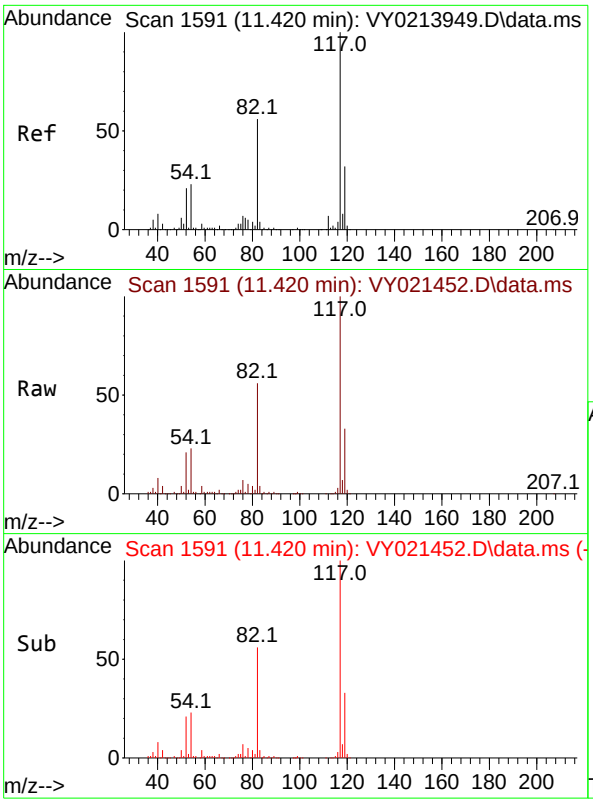


#62
4-Bromofluorobenzene
Concen: 40.081 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Tgt Ion: 95 Resp: 154713

Ion	Ratio	Lower	Upper
95	100		
174	82.0	0.0	165.0
176	77.4	0.0	160.0



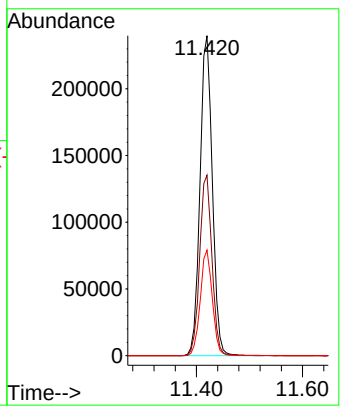


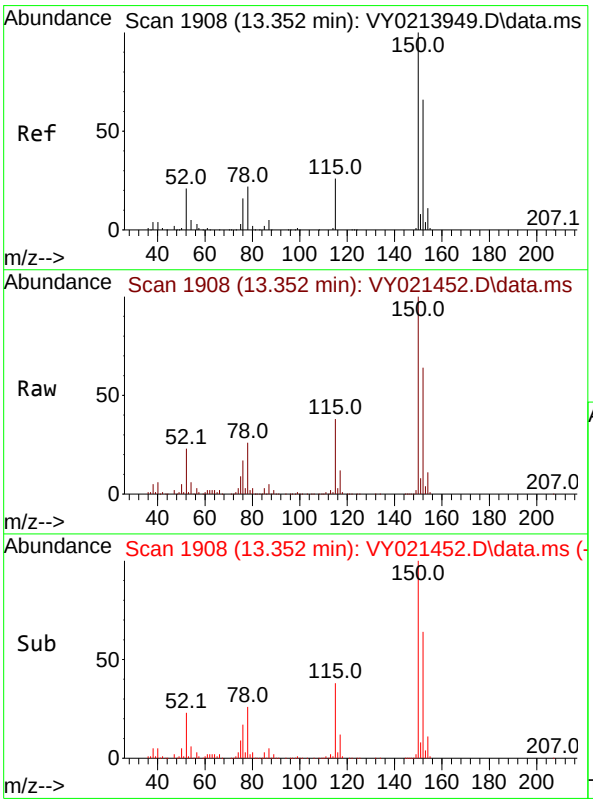
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Tgt Ion:117 Resp: 386511

Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.6	67.0
119	33.0	25.4	38.0

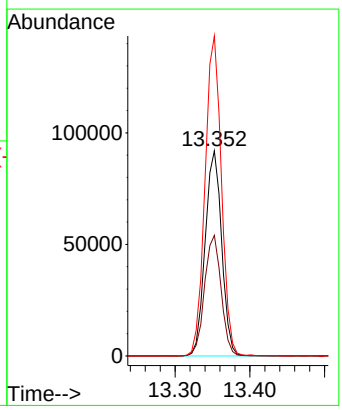




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021452.D
Acq: 07 Mar 2025 10:35

Tgt Ion:152 Resp: 140975

Ion	Ratio	Lower	Upper
152	100		
115	59.2	29.0	87.0
150	155.2	0.0	347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

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\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021452.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	465	474	489	rBV5	6713	21614	1.45%	0.292%
2	7.634	959	970	976	rBV2	210541	513351	34.43%	6.943%
3	7.707	976	982	999	rVB	338300	768555	51.55%	10.395%
4	8.061	1029	1040	1052	rBV	185995	434924	29.17%	5.883%
5	8.616	1122	1131	1147	rBV	557975	1093393	73.33%	14.789%
6	10.109	1368	1376	1394	rBV	896710	1490983	100.00%	20.166%
7	10.512	1435	1442	1448	rBV2	35644	66019	4.43%	0.893%
8	11.249	1558	1563	1568	rBV3	10282	15899	1.07%	0.215%
9	11.420	1583	1591	1604	rBV	763696	1240793	83.22%	16.782%
10	12.408	1746	1753	1763	rBV	548094	859551	57.65%	11.626%
11	13.352	1901	1908	1915	rBV	569422	888398	59.58%	12.016%

Sum of corrected areas: 7393480

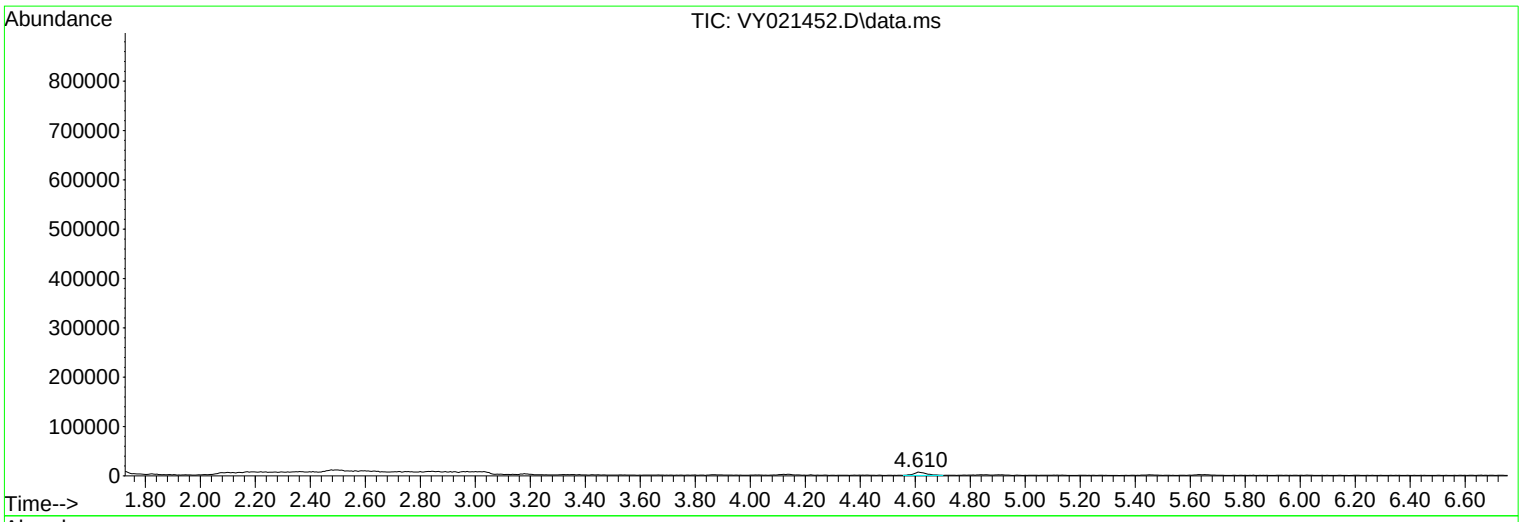
Sample Results: **VY021452.D**

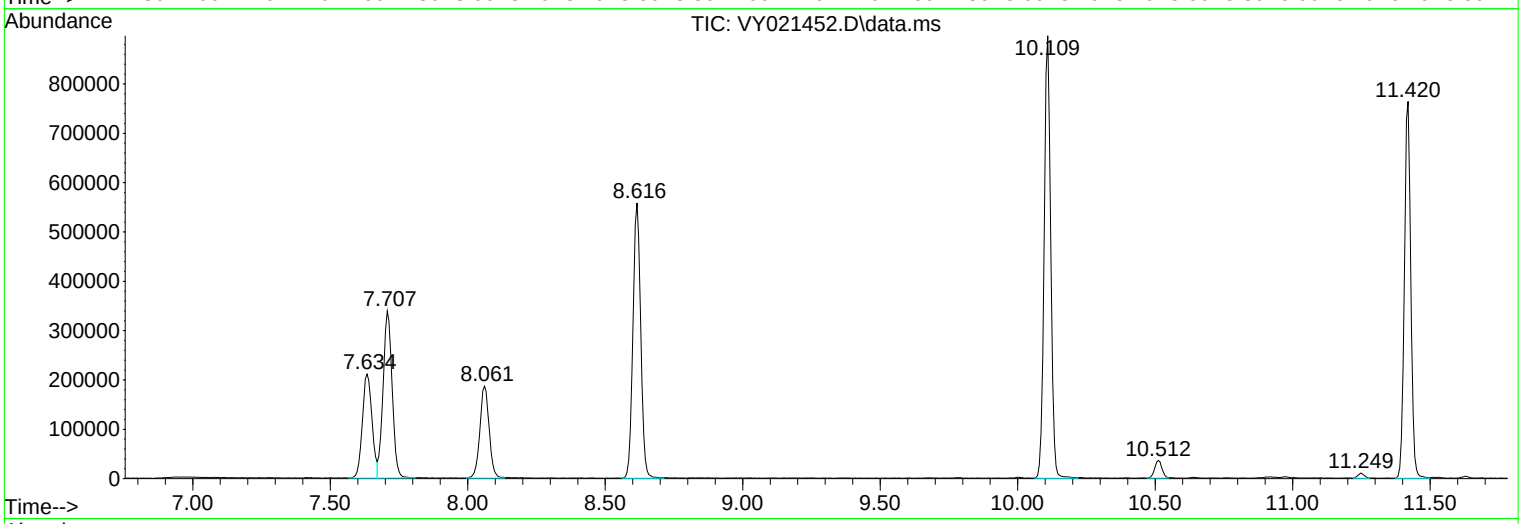
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

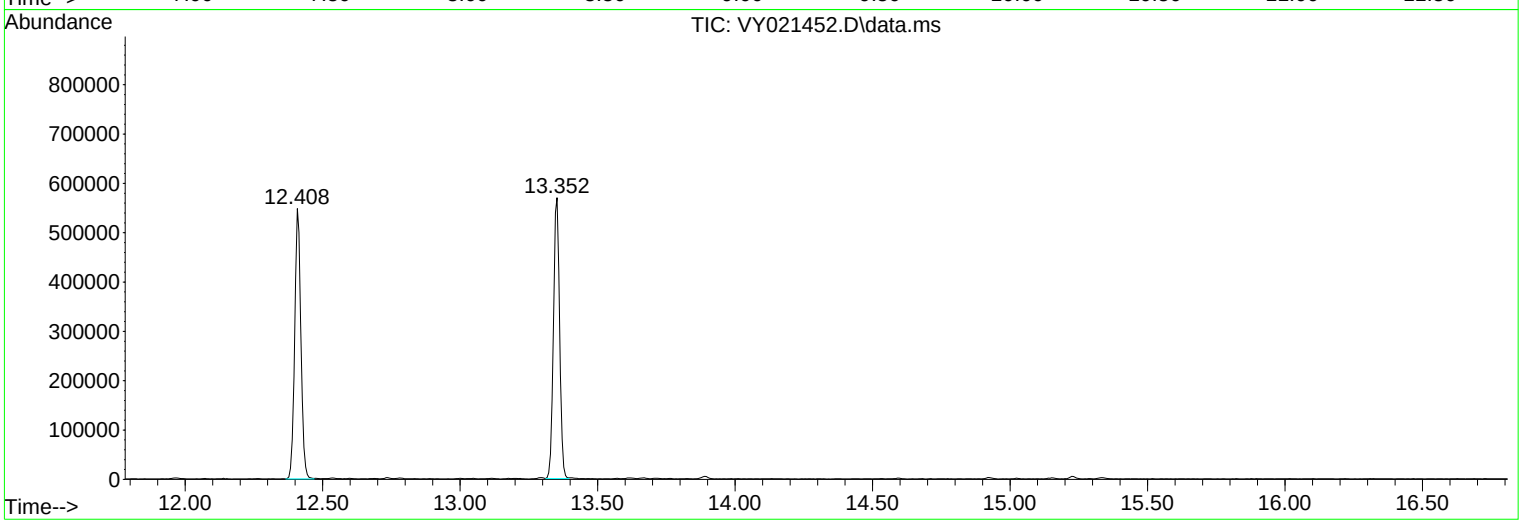
Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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\VY030725\
Data File : VY021452.D
Acq On : 07 Mar 2025 10:35
Operator : SY/MD
Sample : VY0307SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.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_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	98769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177910	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	153160	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68669	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	75979	48.361	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.720%		
35) Dibromofluoromethane	5.379	113	58696	49.339	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.680%		
50) Toluene-d8	8.647	98	215565	49.982	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.960%		
62) 4-Bromofluorobenzene	11.079	95	70764	49.515	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.020%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21481	17.278	ug/l	96
3) Chloromethane	1.307	50	26225	17.236	ug/l	99
4) Vinyl Chloride	1.374	62	25102	16.631	ug/l	94
5) Bromomethane	1.593	94	10069	16.970	ug/l	99
6) Chloroethane	1.660	64	10788	15.496	ug/l	100
7) Trichlorofluoromethane	1.867	101	36124	18.079	ug/l	97
8) Diethyl Ether	2.136	74	12688	16.235	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	21877	19.058	ug/l	98
10) Methyl Iodide	2.441	142	25051	17.462	ug/l	99
11) Tert butyl alcohol	2.995	59	20837	70.020	ug/l	97
12) 1,1-Dichloroethene	2.306	96	21299	17.549	ug/l	98
13) Acrolein	2.239	56	32376	94.116	ug/l	99
14) Allyl chloride	2.654	41	38481	17.812	ug/l	97
15) Acrylonitrile	3.068	53	69973	87.734	ug/l	100
16) Acetone	2.386	43	60954	83.622	ug/l	97
17) Carbon Disulfide	2.495	76	51693	15.991	ug/l	98
18) Methyl Acetate	2.709	43	32206	18.366	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	69964	17.182	ug/l	97
20) Methylene Chloride	2.782	84	24882	17.232	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	21772	18.158	ug/l	93
22) Diisopropyl ether	3.763	45	78201	17.799	ug/l	95
23) Vinyl Acetate	3.721	43	321815	87.770	ug/l	99
24) 1,1-Dichloroethane	3.605	63	43208	17.547	ug/l	98
25) 2-Butanone	4.562	43	97011	88.416	ug/l	95
26) 2,2-Dichloropropane	4.471	77	29281	25.352	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	26173	17.683	ug/l	97
28) Bromochloromethane	4.891	49	24801	21.131	ug/l	98
29) Tetrahydrofuran	5.007	42	63896	86.717	ug/l	100
30) Chloroform	5.086	83	43030	17.587	ug/l	99
31) Cyclohexane	5.458	56	39502	18.481	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	35212	17.819	ug/l	99
36) 1,1-Dichloropropene	5.684	75	28601	17.531	ug/l	98
37) Ethyl Acetate	4.721	43	35651	16.958	ug/l	99
38) Carbon Tetrachloride	5.672	117	29823	18.005	ug/l	94
39) Methylcyclohexane	7.379	83	37321	19.091	ug/l	97
40) Benzene	6.031	78	93693	18.186	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	19884	17.492	ug/l		99
42) 1,2-Dichloroethane	6.080	62	33034	17.806	ug/l		100
43) Isopropyl Acetate	6.342	43	53751	17.291	ug/l		99
44) Trichloroethene	7.123	130	21228	17.548	ug/l		98
45) 1,2-Dichloropropane	7.427	63	23229	17.537	ug/l		100
46) Dibromomethane	7.580	93	16830	17.976	ug/l		100
47) Bromodichloromethane	7.818	83	32751	17.834	ug/l		100
48) Methyl methacrylate	7.696	41	27005	17.316	ug/l		100
49) 1,4-Dioxane	7.671	88	11794	358.508	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	186745	89.468	ug/l		99
52) Toluene	8.714	92	55728	18.437	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27299	17.782	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	32740	18.288	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	22188	17.831	ug/l		99
56) Ethyl methacrylate	9.116	69	31725	16.772	ug/l		97
57) 1,3-Dichloropropane	9.305	76	38444	17.852	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	91212	98.854	ug/l		99
59) 2-Hexanone	9.433	43	134690	89.062	ug/l		100
60) Dibromochloromethane	9.519	129	22271	17.117	ug/l		98
61) 1,2-Dibromoethane	9.610	107	22232	17.897	ug/l		98
64) Tetrachloroethene	9.269	164	18169	18.522	ug/l		94
65) Chlorobenzene	10.079	112	60057	18.531	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	18881	17.494	ug/l		98
67) Ethyl Benzene	10.195	91	104623	18.527	ug/l		98
68) m/p-Xylenes	10.299	106	79227	38.326	ug/l		98
69) o-Xylene	10.640	106	38603	18.515	ug/l		98
70) Styrene	10.652	104	62119	18.414	ug/l		100
71) Bromoform	10.799	173	14223	17.476	ug/l	#	99
73) Isopropylbenzene	10.963	105	99357	18.537	ug/l		99
74) N-amyl acetate	10.841	43	43022	17.106	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	34410	17.495	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	31073m	19.442	ug/l		
77) Bromobenzene	11.201	156	22526	17.813	ug/l		98
78) n-propylbenzene	11.305	91	111961	18.492	ug/l		99
79) 2-Chlorotoluene	11.366	91	67983	17.631	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	81071	18.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	7585	16.241	ug/l		87
82) 4-Chlorotoluene	11.451	91	75650	18.001	ug/l		99
83) tert-Butylbenzene	11.713	119	80170	18.004	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	80507	18.462	ug/l		98
85) sec-Butylbenzene	11.890	105	100051	18.757	ug/l		100
86) p-Isopropyltoluene	12.006	119	81717	18.957	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	41421	18.360	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	41624	18.237	ug/l		98
89) n-Butylbenzene	12.329	91	68722	18.510	ug/l		99
90) Hexachloroethane	12.536	117	13358	17.133	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	41178	18.196	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6446	16.822	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	23221	18.020	ug/l		100
94) Hexachlorobutadiene	13.725	225	9699	18.359	ug/l		98
95) Naphthalene	13.774	128	89255	18.028	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	25405	18.688	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

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

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

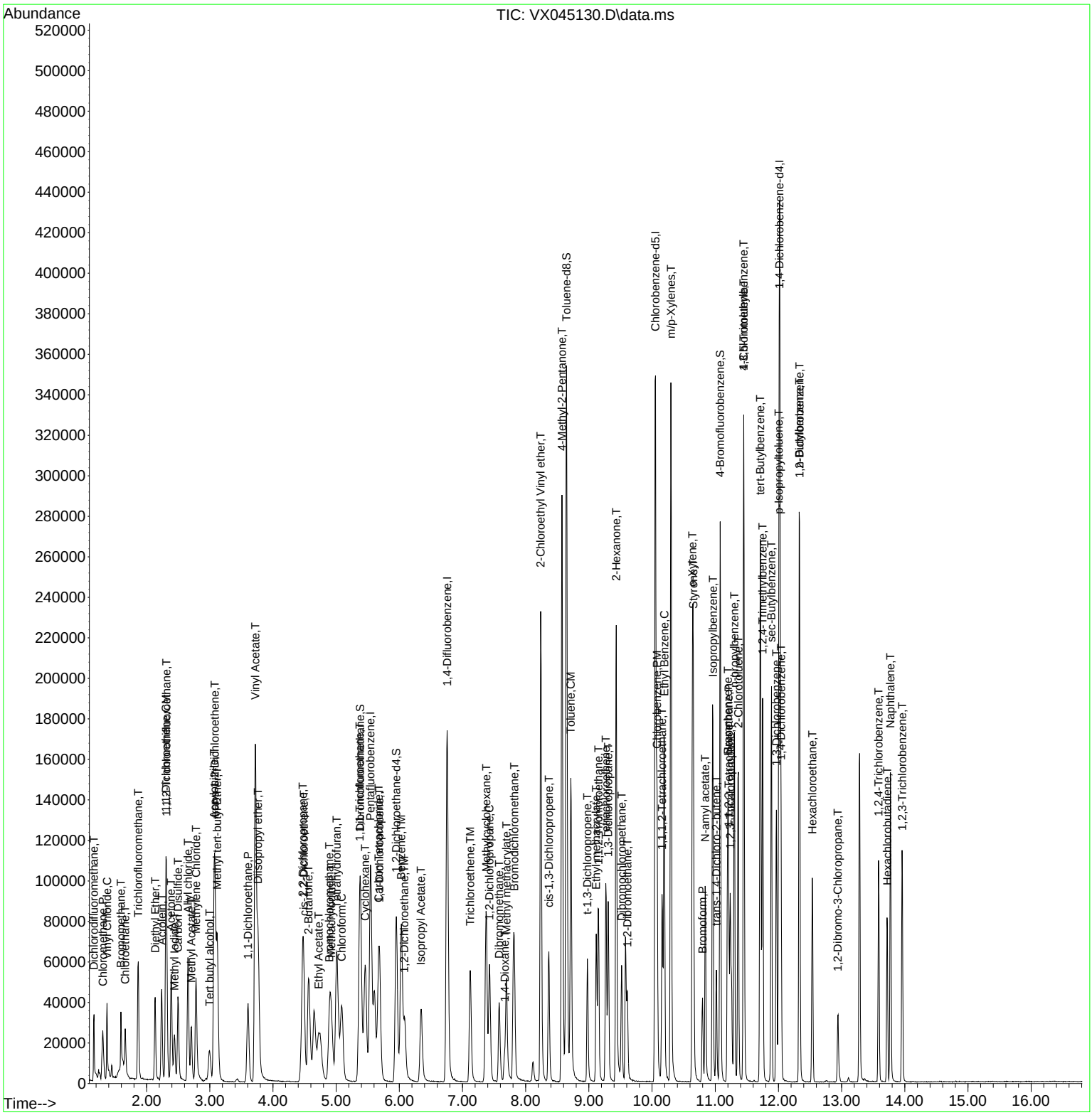
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	97102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175752	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77517	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	59755	50.846	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	8.647	98	214149	50.263	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	69431	49.179	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25313	20.710	ug/l	96
3) Chloromethane	1.307	50	28610	19.127	ug/l	99
4) Vinyl Chloride	1.374	62	28735	19.365	ug/l	96
5) Bromomethane	1.593	94	11051	18.945	ug/l	98
6) Chloroethane	1.660	64	11910	17.401	ug/l	94
7) Trichlorofluoromethane	1.861	101	41329	21.039	ug/l	98
8) Diethyl Ether	2.136	74	15031	19.563	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	25913	22.961	ug/l	99
10) Methyl Iodide	2.440	142	28535	20.232	ug/l	97
11) Tert butyl alcohol	2.995	59	24878	85.035	ug/l	99
12) 1,1-Dichloroethene	2.306	96	25437	21.319	ug/l	96
13) Acrolein	2.239	56	32240	95.330	ug/l	97
14) Allyl chloride	2.654	41	45464	21.406	ug/l	99
15) Acrylonitrile	3.068	53	80620	102.818	ug/l	100
16) Acetone	2.392	43	70356	98.177	ug/l	100
17) Carbon Disulfide	2.495	76	56434	17.758	ug/l	100
18) Methyl Acetate	2.709	43	38789	22.500	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83027	20.741	ug/l	98
20) Methylene Chloride	2.782	84	28513	20.086	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	25882	21.957	ug/l	92
22) Diisopropyl ether	3.763	45	92263	21.360	ug/l	92
23) Vinyl Acetate	3.721	43	379422	105.258	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50777	20.975	ug/l	99
25) 2-Butanone	4.568	43	112114	103.935	ug/l	100
26) 2,2-Dichloropropane	4.464	77	31636	27.861	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	30793	21.161	ug/l	95
28) Bromochloromethane	4.897	49	20937	18.145	ug/l	98
29) Tetrahydrofuran	5.007	42	72574	100.185	ug/l	99
30) Chloroform	5.092	83	50960	21.186	ug/l	100
31) Cyclohexane	5.458	56	46499	22.128	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	40911	21.059	ug/l	98
36) 1,1-Dichloropropene	5.684	75	34442	21.370	ug/l	99
37) Ethyl Acetate	4.714	43	41415	19.942	ug/l	100
38) Carbon Tetrachloride	5.672	117	33530	20.492	ug/l	98
39) Methylcyclohexane	7.372	83	44224	22.900	ug/l	97
40) Benzene	6.031	78	109500	21.516	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	23322	20.769	ug/l		99
42) 1,2-Dichloroethane	6.086	62	39213	21.397	ug/l		100
43) Isopropyl Acetate	6.342	43	62094	20.220	ug/l		100
44) Trichloroethene	7.123	130	24906	20.842	ug/l		97
45) 1,2-Dichloropropane	7.427	63	27481	21.002	ug/l		99
46) Dibromomethane	7.580	93	19832	21.443	ug/l		98
47) Bromodichloromethane	7.818	83	37772	20.821	ug/l		97
48) Methyl methacrylate	7.696	41	31277	20.301	ug/l		98
49) 1,4-Dioxane	7.665	88	13860	426.482	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	215309	104.420	ug/l		99
52) Toluene	8.714	92	65138	21.814	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	30950	20.407	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	37460	21.182	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	24854	20.219	ug/l		97
56) Ethyl methacrylate	9.116	69	37529	20.084	ug/l		97
57) 1,3-Dichloropropane	9.305	76	43951	20.660	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	89701	98.410	ug/l		99
59) 2-Hexanone	9.433	43	158142	105.853	ug/l		99
60) Dibromochloromethane	9.518	129	25020	19.466	ug/l		99
61) 1,2-Dibromoethane	9.610	107	24964	20.343	ug/l		100
64) Tetrachloroethene	9.268	164	21040	22.233	ug/l		91
65) Chlorobenzene	10.079	112	67652	21.638	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	21012	20.181	ug/l		97
67) Ethyl Benzene	10.189	91	118147	21.687	ug/l		99
68) m/p-Xylenes	10.299	106	87720	43.986	ug/l		99
69) o-Xylene	10.640	106	43323	21.539	ug/l		99
70) Styrene	10.652	104	70623	21.700	ug/l		99
71) Bromoform	10.799	173	15238	19.408	ug/l	#	100
73) Isopropylbenzene	10.963	105	111617	21.304	ug/l		100
74) N-amyl acetate	10.841	43	50220	20.428	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	39941	20.775	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31293m	20.030	ug/l		
77) Bromobenzene	11.195	156	25608	20.716	ug/l		100
78) n-propylbenzene	11.305	91	126790	21.423	ug/l		100
79) 2-Chlorotoluene	11.360	91	77393	20.533	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	91126	21.511	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	7740	16.954	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	87322	21.257	ug/l		99
83) tert-Butylbenzene	11.713	119	91061	20.921	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	91832	21.544	ug/l		100
85) sec-Butylbenzene	11.890	105	112914	21.656	ug/l		100
86) p-Isopropyltoluene	12.006	119	90968	21.589	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45783	20.761	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	46189	20.703	ug/l		97
89) n-Butylbenzene	12.329	91	79568	21.925	ug/l		99
90) Hexachloroethane	12.536	117	14633	19.200	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	46647	21.087	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7641	20.400	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	26728	21.219	ug/l		99
94) Hexachlorobutadiene	13.725	225	11477	22.224	ug/l		96
95) Naphthalene	13.774	128	102859	21.254	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	28765	21.647	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

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

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

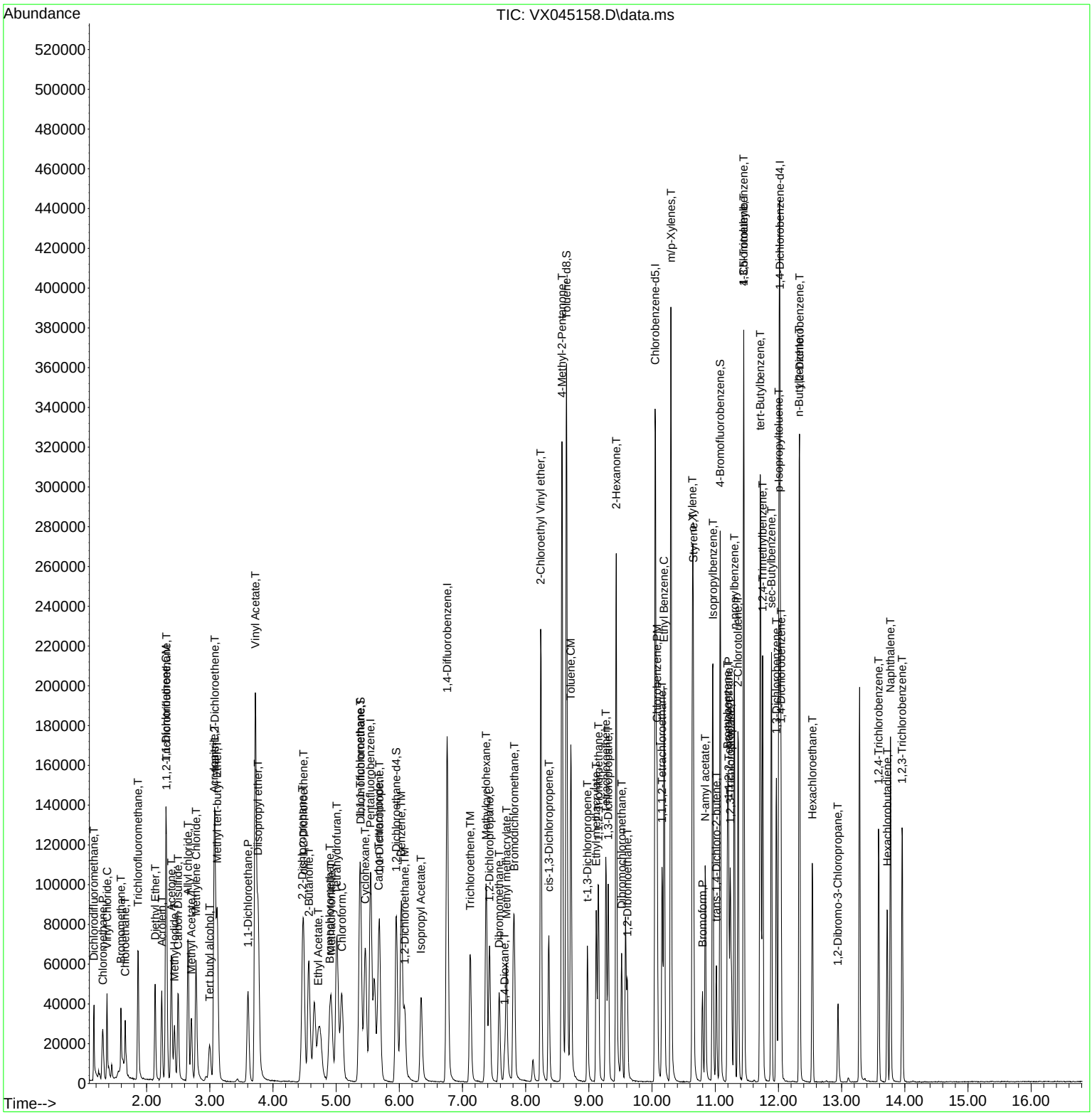
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021428.D
Acq On : 06 Mar 2025 12:33
Operator : SY/MD
Sample : VY0306SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 00:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	200172	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	318431	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	292608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	152176	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	112611	53.226	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.460%			
35) Dibromofluoromethane	7.634	113	104961	50.146	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.300%			
50) Toluene-d8	10.109	98	392444	49.519	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.040%			
62) 4-Bromofluorobenzene	12.408	95	136984	50.814	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	33007	17.969	ug/l	94
3) Chloromethane	2.068	50	52532	20.284	ug/l	98
4) Vinyl Chloride	2.202	62	56741	20.049	ug/l	96
5) Bromomethane	2.592	94	44636	21.822	ug/l	98
6) Chloroethane	2.733	64	39312	21.019	ug/l	98
7) Trichlorofluoromethane	3.056	101	79025	20.005	ug/l	96
8) Diethyl Ether	3.452	74	22647	20.687	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.818	101	44869	19.895	ug/l	96
10) Methyl Iodide	4.007	142	41886	18.270	ug/l	99
11) Tert butyl alcohol	4.866	59	15090	95.800	ug/l	100
12) 1,1-Dichloroethene	3.781	96	39325	19.125	ug/l	93
13) Acrolein	3.647	56	17379	161.496	ug/l	92
14) Allyl chloride	4.385	41	63708	19.172	ug/l	100
15) Acrylonitrile	5.061	53	47217	101.322	ug/l	99
16) Acetone	3.879	43	36769	79.681	ug/l	90
17) Carbon Disulfide	4.104	76	120251	18.661	ug/l	99
18) Methyl Acetate	4.385	43	21063	20.572	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	104134	19.981	ug/l	95
20) Methylene Chloride	4.616	84	46665	19.265	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	44042	19.126	ug/l	94
22) Diisopropyl ether	6.019	45	146814	20.501	ug/l	99
23) Vinyl Acetate	5.964	43	414075	101.317	ug/l	99
24) 1,1-Dichloroethane	5.915	63	85556	20.243	ug/l	99
25) 2-Butanone	6.896	43	59669	93.477	ug/l	100
26) 2,2-Dichloropropane	6.884	77	69379	17.840	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	51434	19.661	ug/l	98
28) Bromochloromethane	7.244	49	36673	20.697	ug/l	98
29) Tetrahydrofuran	7.268	42	40269	102.187	ug/l	99
30) Chloroform	7.421	83	88331	20.126	ug/l	100
31) Cyclohexane	7.701	56	73140	18.459	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	77342	19.246	ug/l	99
36) 1,1-Dichloropropene	7.835	75	61060	18.637	ug/l	99
37) Ethyl Acetate	6.982	43	28431	19.633	ug/l	99
38) Carbon Tetrachloride	7.817	117	69637	18.481	ug/l	96
39) Methylcyclohexane	9.109	83	71256	17.731	ug/l	95
40) Benzene	8.079	78	186841	19.359	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021428.D
Acq On : 06 Mar 2025 12:33
Operator : SY/MD
Sample : VY0306SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 00:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	16604m	21.058	ug/l		
42) 1,2-Dichloroethane	8.158	62	54457	20.169	ug/l		99
43) Isopropyl Acetate	8.195	43	55820	19.857	ug/l	#	88
44) Trichloroethene	8.866	130	45767	18.765	ug/l		94
45) 1,2-Dichloropropane	9.140	63	46505	20.246	ug/l		96
46) Dibromomethane	9.231	93	26168	20.474	ug/l		97
47) Bromodichloromethane	9.420	83	67190	19.796	ug/l		98
48) Methyl methacrylate	9.219	41	24974	19.347	ug/l		99
49) 1,4-Dioxane	9.225	88	5504	438.744	ug/l	#	91
51) 4-Methyl-2-Pentanone	10.000	43	146138	100.753	ug/l		98
52) Toluene	10.170	92	117027	19.233	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	58703	19.631	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	68234	19.219	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	33464	20.016	ug/l		98
56) Ethyl methacrylate	10.438	69	41900	19.651	ug/l		97
57) 1,3-Dichloropropane	10.719	76	58893	20.324	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	107422	109.136	ug/l		98
59) 2-Hexanone	10.762	43	94061	98.075	ug/l		98
60) Dibromochloromethane	10.914	129	45747	19.959	ug/l		98
61) 1,2-Dibromoethane	11.018	107	31502	19.965	ug/l		100
64) Tetrachloroethene	10.646	164	43645	18.343	ug/l		99
65) Chlorobenzene	11.444	112	128656	18.619	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	45244	18.520	ug/l		99
67) Ethyl Benzene	11.518	91	216170	17.824	ug/l		99
68) m/p-Xylenes	11.633	106	168512	36.598	ug/l		100
69) o-Xylene	11.957	106	77025	18.151	ug/l		100
70) Styrene	11.969	104	130672	18.561	ug/l		99
71) Bromoform	12.133	173	25622	18.762	ug/l	#	97
73) Isopropylbenzene	12.255	105	205378	17.133	ug/l		100
74) N-amyl acetate	12.072	43	47083	18.086	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	39820	18.824	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	28901m	18.847	ug/l		
77) Bromobenzene	12.536	156	49192	17.541	ug/l		99
78) n-propylbenzene	12.597	91	254198	17.461	ug/l		100
79) 2-Chlorotoluene	12.682	91	146854	17.642	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	173931	17.854	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	12183	18.061	ug/l		96
82) 4-Chlorotoluene	12.780	91	154146	17.882	ug/l		100
83) tert-Butylbenzene	12.999	119	149456	17.198	ug/l		100
84) 1,2,4-Trimethylbenzene	13.048	105	173214	17.908	ug/l		98
85) sec-Butylbenzene	13.176	105	224638	17.373	ug/l		100
86) p-Isopropyltoluene	13.292	119	186440	17.502	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	98755	17.691	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	98346	18.014	ug/l		99
89) n-Butylbenzene	13.621	91	171737	17.459	ug/l		99
90) Hexachloroethane	13.883	117	39531	17.395	ug/l		100
91) 1,2-Dichlorobenzene	13.664	146	87199	18.225	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6144	19.390	ug/l		92
93) 1,2,4-Trichlorobenzene	14.925	180	45266	17.321	ug/l		98
94) Hexachlorobutadiene	15.029	225	29954	18.285	ug/l		99
95) Naphthalene	15.145	128	71743	18.264	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	38134	17.350	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021428.D
Acq On : 06 Mar 2025 12:33
Operator : SY/MD
Sample : VY0306SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 00:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

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

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

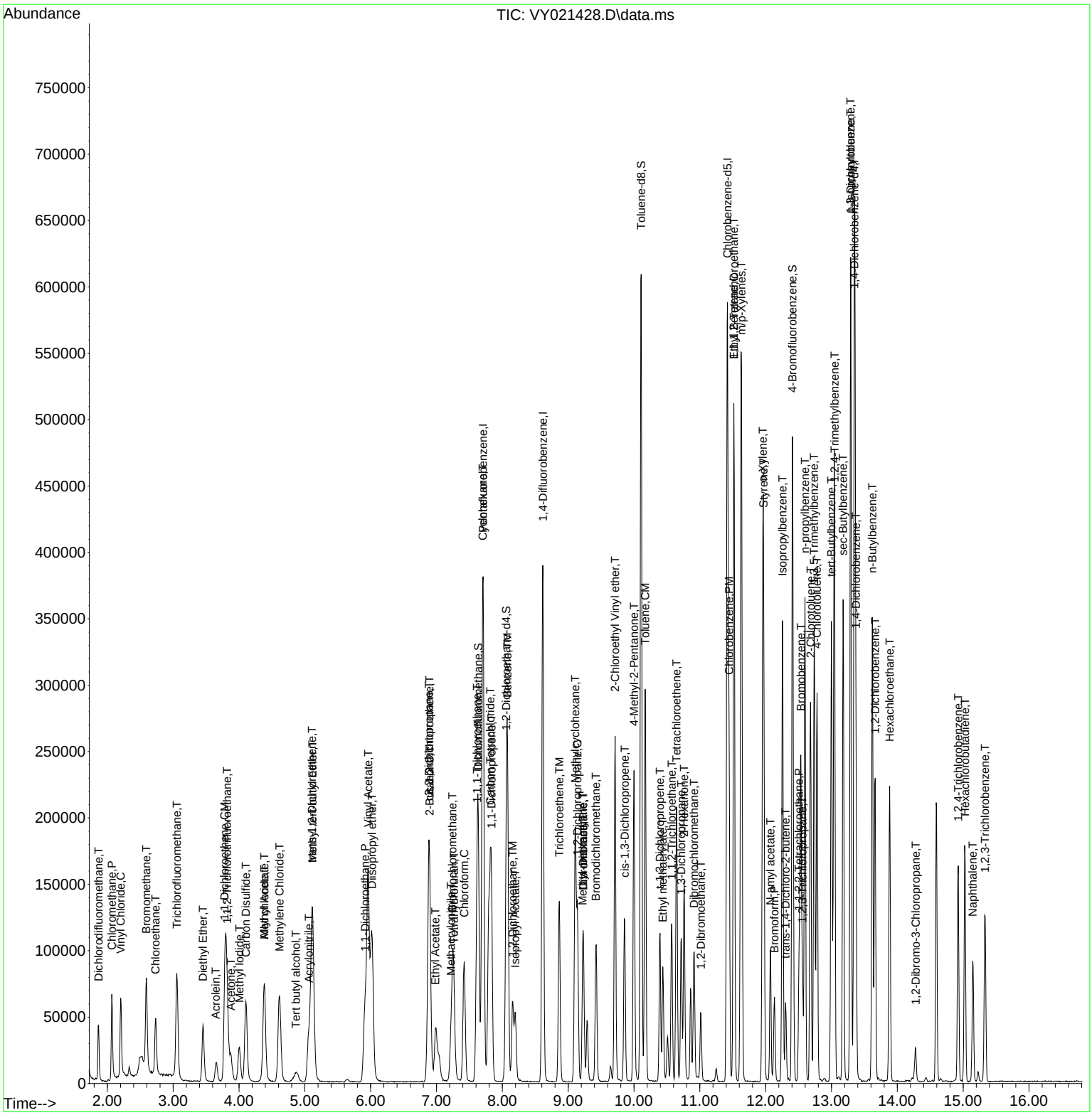
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021428.D
Acq On : 06 Mar 2025 12:33
Operator : SY/MD
Sample : VY0306SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 00:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021453.D
Acq On : 07 Mar 2025 12:03
Operator : SY/MD
Sample : VY0307SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 22:00:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	219868	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	343563	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	301562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	152803	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123341	53.076	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.160%			
35) Dibromofluoromethane	7.634	113	117478	52.021	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.040%			
50) Toluene-d8	10.109	98	444032	51.930	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.860%			
62) 4-Bromofluorobenzene	12.408	95	148084	50.913	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	39418	19.537	ug/l	94
3) Chloromethane	2.068	50	57411	20.182	ug/l	98
4) Vinyl Chloride	2.202	62	64302	20.685	ug/l	96
5) Bromomethane	2.592	94	46339	20.625	ug/l	96
6) Chloroethane	2.732	64	44175	21.504	ug/l	97
7) Trichlorofluoromethane	3.056	101	94934	21.880	ug/l	95
8) Diethyl Ether	3.452	74	23849	19.834	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	49349	19.921	ug/l	99
10) Methyl Iodide	4.007	142	48739	19.355	ug/l	100
11) Tert butyl alcohol	4.872	59	18258	108.044	ug/l	99
12) 1,1-Dichloroethene	3.787	96	43870	19.424	ug/l	97
13) Acrolein	3.647	56	16580	140.270	ug/l	95
14) Allyl chloride	4.385	41	70258	19.249	ug/l	99
15) Acrylonitrile	5.061	53	50908	99.456	ug/l	98
16) Acetone	3.866	43	58595	115.604	ug/l	96
17) Carbon Disulfide	4.104	76	133704	18.890	ug/l	99
18) Methyl Acetate	4.385	43	23025	20.473	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	110998	19.390	ug/l	99
20) Methylene Chloride	4.616	84	54760	20.582	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	49678	19.641	ug/l	95
22) Diisopropyl ether	6.018	45	157929	20.078	ug/l	99
23) Vinyl Acetate	5.957	43	450639	100.386	ug/l	99
24) 1,1-Dichloroethane	5.915	63	91407	19.690	ug/l	99
25) 2-Butanone	6.896	43	75161	107.199	ug/l	99
26) 2,2-Dichloropropane	6.884	77	82994	19.429	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	54488	18.963	ug/l	98
28) Bromochloromethane	7.244	49	37442	19.238	ug/l	99
29) Tetrahydrofuran	7.262	42	44158	102.018	ug/l	97
30) Chloroform	7.421	83	95944	19.903	ug/l	99
31) Cyclohexane	7.701	56	82128	18.870	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	86978	19.705	ug/l	99
36) 1,1-Dichloropropene	7.835	75	68637	19.417	ug/l	98
37) Ethyl Acetate	6.982	43	31592	20.220	ug/l	97
38) Carbon Tetrachloride	7.817	117	79070	19.449	ug/l	96
39) Methylcyclohexane	9.109	83	81593	18.818	ug/l	99
40) Benzene	8.079	78	202793	19.475	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021453.D
Acq On : 07 Mar 2025 12:03
Operator : SY/MD
Sample : VY0307SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 22:00:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	17773m	20.892	ug/l		
42) 1,2-Dichloroethane	8.158	62	57755	19.826	ug/l		100
43) Isopropyl Acetate	8.195	43	59917	19.755	ug/l	#	87
44) Trichloroethene	8.865	130	50339	19.130	ug/l		99
45) 1,2-Dichloropropane	9.140	63	49619	20.021	ug/l		97
46) Dibromomethane	9.231	93	27131	19.675	ug/l		99
47) Bromodichloromethane	9.426	83	71823	19.613	ug/l		99
48) Methyl methacrylate	9.219	41	27630	19.839	ug/l		98
49) 1,4-Dioxane	9.237	88	5803	428.740	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	157126	100.404	ug/l		98
52) Toluene	10.170	92	128919	19.637	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	62838	19.476	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	73636	19.223	ug/l		96
55) 1,1,2-Trichloroethane	10.573	97	35572	19.720	ug/l		96
56) Ethyl methacrylate	10.438	69	44620	19.396	ug/l		100
57) 1,3-Dichloropropane	10.719	76	60936	19.491	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	107568	101.290	ug/l		99
59) 2-Hexanone	10.762	43	109553	105.872	ug/l		98
60) Dibromochloromethane	10.914	129	47870	19.358	ug/l		99
61) 1,2-Dibromoethane	11.018	107	33437	19.641	ug/l		97
64) Tetrachloroethene	10.646	164	48058	19.598	ug/l		98
65) Chlorobenzene	11.444	112	135015	18.959	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	48814	19.388	ug/l		100
67) Ethyl Benzene	11.517	91	238496	19.081	ug/l		99
68) m/p-Xylenes	11.627	106	184669	38.916	ug/l		99
69) o-Xylene	11.956	106	83621	19.120	ug/l		99
70) Styrene	11.969	104	140205	19.324	ug/l		99
71) Bromoform	12.133	173	28337	20.134	ug/l	#	98
73) Isopropylbenzene	12.255	105	227722	18.919	ug/l		100
74) N-amyl acetate	12.072	43	49116	18.789	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	41732	19.647	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	30660m	19.912	ug/l		
77) Bromobenzene	12.536	156	51851	18.413	ug/l		98
78) n-propylbenzene	12.597	91	280785	19.208	ug/l		100
79) 2-Chlorotoluene	12.682	91	159129	19.038	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	187183	19.136	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	13174	19.450	ug/l		95
82) 4-Chlorotoluene	12.779	91	166239	19.206	ug/l		100
83) tert-Butylbenzene	12.999	119	163102	18.691	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	185591	19.109	ug/l		100
85) sec-Butylbenzene	13.176	105	249181	19.192	ug/l		100
86) p-Isopropyltoluene	13.292	119	202582	18.939	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	105372	18.798	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	104875	19.131	ug/l		98
89) n-Butylbenzene	13.621	91	186240	18.856	ug/l		99
90) Hexachloroethane	13.883	117	43553	19.087	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	91257	18.995	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6311	19.835	ug/l		90
93) 1,2,4-Trichlorobenzene	14.925	180	47173	17.977	ug/l		97
94) Hexachlorobutadiene	15.029	225	31456	19.123	ug/l		99
95) Naphthalene	15.151	128	74806	18.887	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	39961	18.107	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021453.D
Acq On : 07 Mar 2025 12:03
Operator : SY/MD
Sample : VY0307SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 22:00:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025

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

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

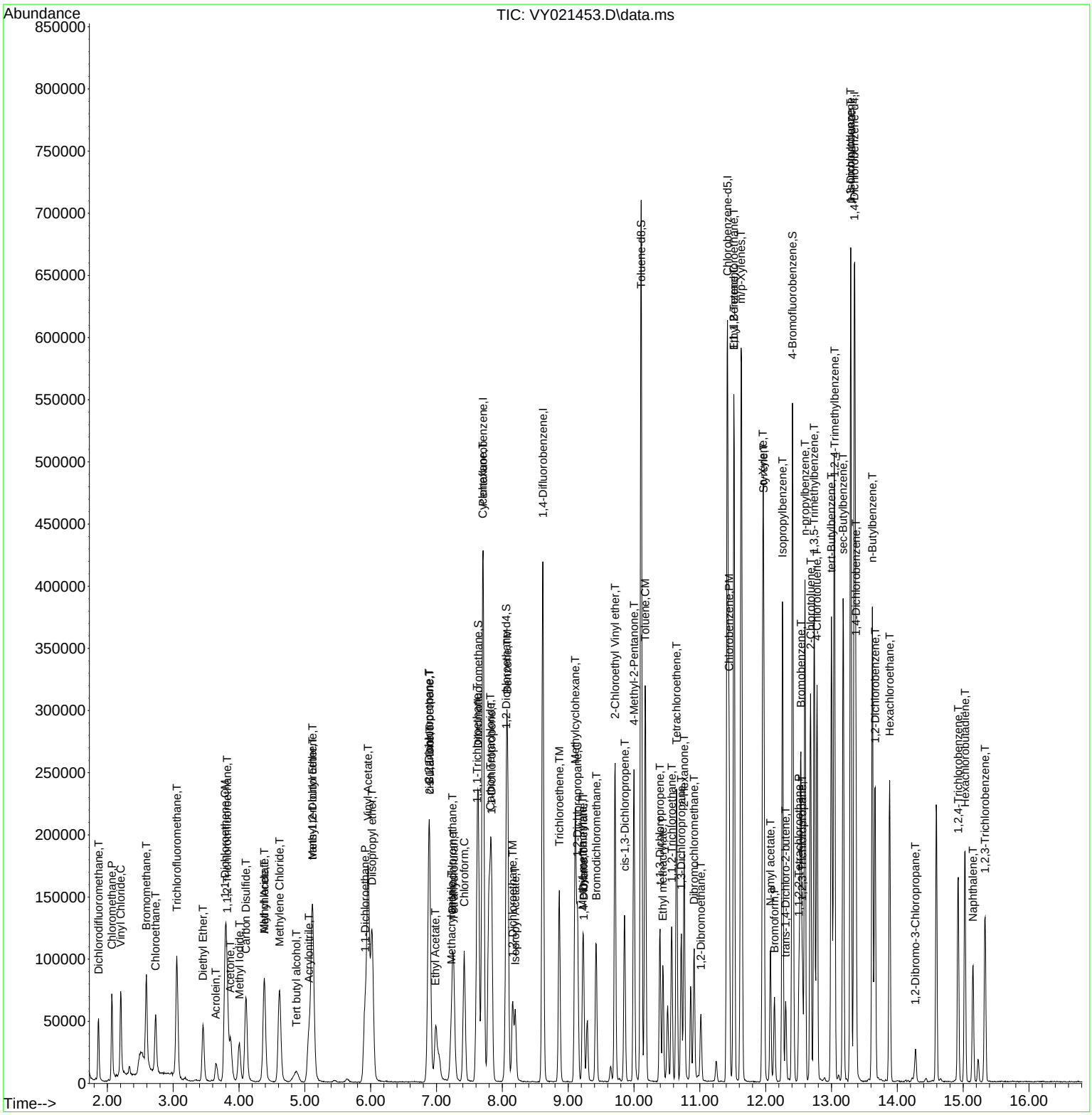
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
Data File : VY021453.D
Acq On : 07 Mar 2025 12:03
Operator : SY/MD
Sample : VY0307SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 22:00:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0307SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025
Supervised By :Semsettin Yesilyurt 03/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045135.D
Acq On : 05 Mar 2025 12:26
Operator : JC/MD
Sample : VX0305WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 01:03:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	104383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188951	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	167692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	81831	49.285	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.560%			
35) Dibromofluoromethane	5.379	113	63872	50.553	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.100%			
50) Toluene-d8	8.647	98	233974	51.080	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.160%			
62) 4-Bromofluorobenzene	11.079	95	77651	51.159	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25554	19.448	ug/l	97
3) Chloromethane	1.307	50	30784	19.145	ug/l	97
4) Vinyl Chloride	1.374	62	28793	18.050	ug/l	98
5) Bromomethane	1.593	94	11190	17.845	ug/l	99
6) Chloroethane	1.660	64	11751	15.971	ug/l	94
7) Trichlorofluoromethane	1.867	101	39358	18.638	ug/l	97
8) Diethyl Ether	2.136	74	14681	17.775	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	24600	20.277	ug/l	97
10) Methyl Iodide	2.441	142	29395	19.388	ug/l	99
11) Tert butyl alcohol	2.995	59	25231	80.226	ug/l	99
12) 1,1-Dichloroethene	2.306	96	24479	19.085	ug/l	99
13) Acrolein	2.239	56	35220	96.877	ug/l	98
14) Allyl chloride	2.654	41	44437	19.463	ug/l	100
15) Acrylonitrile	3.068	53	83639	99.228	ug/l	100
16) Acetone	2.392	43	71451	92.750	ug/l	98
17) Carbon Disulfide	2.502	76	54326	15.902	ug/l	99
18) Methyl Acetate	2.703	43	38148	20.585	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83186	19.331	ug/l	100
20) Methylene Chloride	2.782	84	29184	19.125	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	25202	19.888	ug/l	95
22) Diisopropyl ether	3.763	45	92306	19.879	ug/l	94
23) Vinyl Acetate	3.721	43	369150	95.265	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50888	19.555	ug/l	99
25) 2-Butanone	4.568	43	116702	100.642	ug/l	99
26) 2,2-Dichloropropane	4.471	77	31179	25.544	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	30742	19.653	ug/l	98
28) Bromochloromethane	4.897	49	27571	22.228	ug/l	100
29) Tetrahydrofuran	5.013	42	77400	99.394	ug/l	99
30) Chloroform	5.086	83	49949	19.317	ug/l	96
31) Cyclohexane	5.458	56	44911	19.881	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	39605	18.965	ug/l	100
36) 1,1-Dichloropropene	5.690	75	32570	18.797	ug/l	99
37) Ethyl Acetate	4.715	43	43509	19.487	ug/l	97
38) Carbon Tetrachloride	5.666	117	31758	18.053	ug/l	96
39) Methylcyclohexane	7.373	83	43836	21.114	ug/l	97
40) Benzene	6.031	78	108204	19.776	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045135.D
Acq On : 05 Mar 2025 12:26
Operator : JC/MD
Sample : VX0305WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 01:03:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	23219	19.233	ug/l		94
42) 1,2-Dichloroethane	6.086	62	38564	19.573	ug/l		98
43) Isopropyl Acetate	6.342	43	63481	19.228	ug/l		100
44) Trichloroethene	7.123	130	23788	18.515	ug/l		98
45) 1,2-Dichloropropane	7.427	63	27303	19.408	ug/l		100
46) Dibromomethane	7.580	93	19632	19.744	ug/l		99
47) Bromodichloromethane	7.818	83	36222	18.572	ug/l		100
48) Methyl methacrylate	7.696	41	31784	19.189	ug/l		98
49) 1,4-Dioxane	7.671	88	14405	412.289	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	223880	100.992	ug/l		100
52) Toluene	8.714	92	66524	20.722	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	30810	18.896	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	37343	19.640	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	26275	19.881	ug/l		99
56) Ethyl methacrylate	9.116	69	38988	19.408	ug/l		99
57) 1,3-Dichloropropane	9.305	76	45852	20.048	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	93444	95.356	ug/l		97
59) 2-Hexanone	9.433	43	163225	101.624	ug/l		100
60) Dibromochloromethane	9.519	129	25594	18.522	ug/l		100
61) 1,2-Dibromoethane	9.610	107	25105	19.029	ug/l		99
64) Tetrachloroethene	9.269	164	21212	19.750	ug/l		91
65) Chlorobenzene	10.079	112	69220	19.508	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21254	17.986	ug/l		99
67) Ethyl Benzene	10.195	91	123682	20.004	ug/l		99
68) m/p-Xylenes	10.299	106	94216	41.627	ug/l		98
69) o-Xylene	10.640	106	45390	19.884	ug/l		100
70) Styrene	10.652	104	74263	20.106	ug/l		99
71) Bromoform	10.799	173	15338	17.213	ug/l	#	98
73) Isopropylbenzene	10.963	105	116043	20.206	ug/l		100
74) N-amyl acetate	10.841	43	50887	18.884	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	41049	19.478	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	35831m	20.923	ug/l		
77) Bromobenzene	11.195	156	27194	20.069	ug/l		97
78) n-propylbenzene	11.305	91	132188	20.376	ug/l		100
79) 2-Chlorotoluene	11.366	91	81676	19.769	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	96161	20.708	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	8063	16.113	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	90278	20.049	ug/l		99
83) tert-Butylbenzene	11.713	119	93664	19.631	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	95237	20.383	ug/l		99
85) sec-Butylbenzene	11.890	105	117932	20.635	ug/l		99
86) p-Isopropyltoluene	12.006	119	96010	20.787	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	48977	20.262	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	48188	19.705	ug/l		97
89) n-Butylbenzene	12.329	91	82412	20.717	ug/l		100
90) Hexachloroethane	12.536	117	13810	16.531	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	49011	20.212	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7544	18.375	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	27569	19.967	ug/l		99
94) Hexachlorobutadiene	13.725	225	11329	20.014	ug/l		96
95) Naphthalene	13.774	128	108208	20.398	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	29345	20.147	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045135.D
Acq On : 05 Mar 2025 12:26
Operator : JC/MD
Sample : VX0305WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 01:03:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

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

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

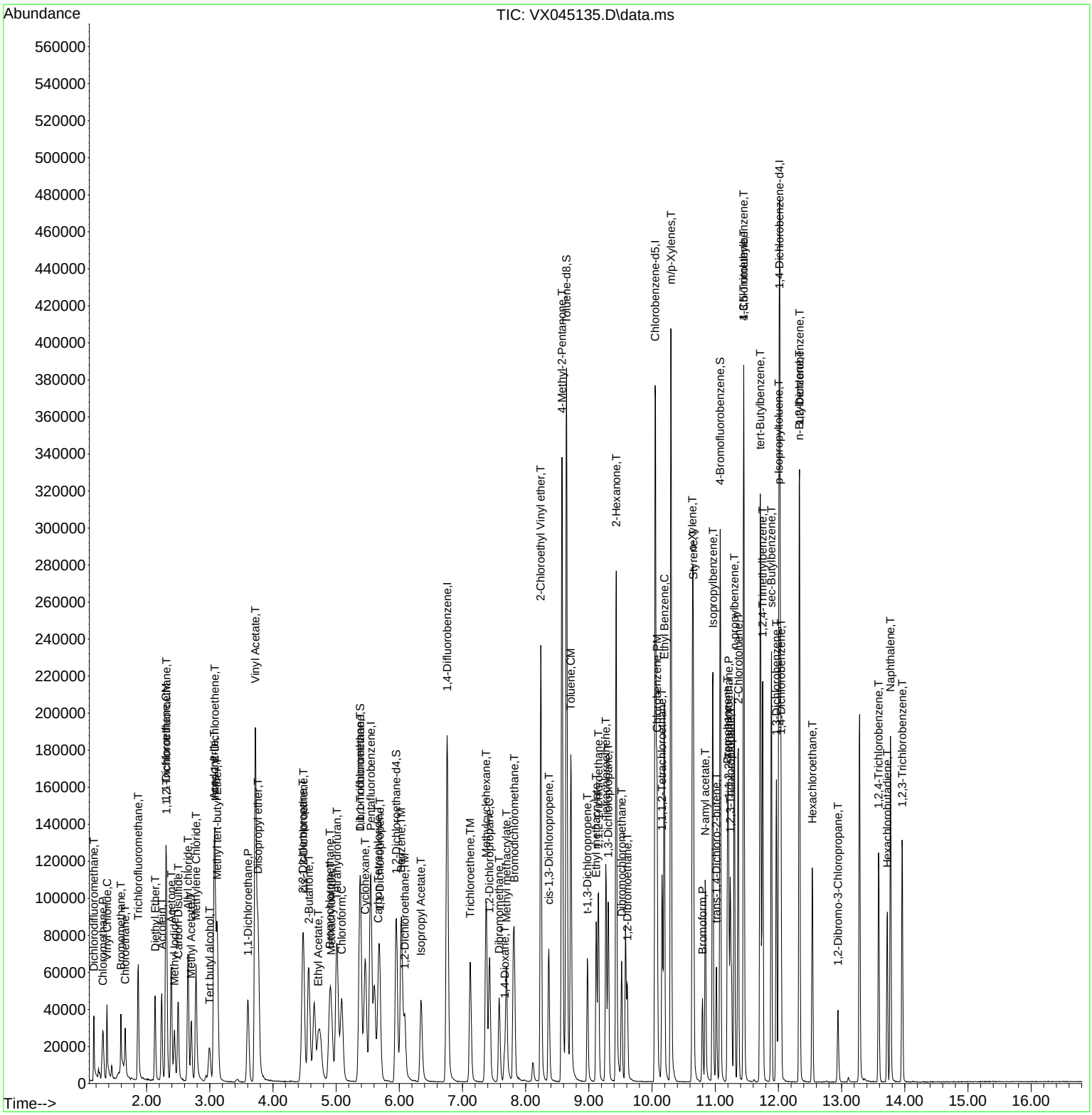
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045135.D
Acq On : 05 Mar 2025 12:26
Operator : JC/MD
Sample : VX0305WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 01:03:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021429.D
Acq On : 06 Mar 2025 12:55
Operator : SY/MD
Sample : VY0306SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:39:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	197190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	317024	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	284896	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	145541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	114552	54.963	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.920%			
35) Dibromofluoromethane	7.634	113	108456	52.046	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.100%			
50) Toluene-d8	10.103	98	405827	51.435	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.860%			
62) 4-Bromofluorobenzene	12.408	95	141225	52.620	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	35558	19.650	ug/l	96
3) Chloromethane	2.068	50	52949	20.755	ug/l	96
4) Vinyl Chloride	2.202	62	58685	21.049	ug/l	99
5) Bromomethane	2.586	94	42039	20.863	ug/l	95
6) Chloroethane	2.733	64	40824	22.158	ug/l	94
7) Trichlorofluoromethane	3.056	101	80838	20.774	ug/l	96
8) Diethyl Ether	3.452	74	22347	20.722	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	43988	19.799	ug/l	99
10) Methyl Iodide	4.001	142	44089	19.522	ug/l	100
11) Tert butyl alcohol	4.860	59	17013	113.220	ug/l #	72
12) 1,1-Dichloroethene	3.787	96	40773	20.129	ug/l	98
13) Acrolein	3.653	56	17122	161.514	ug/l	96
14) Allyl chloride	4.385	41	65445	19.993	ug/l	98
15) Acrylonitrile	5.055	53	48263	105.132	ug/l	99
16) Acetone	3.867	43	37789	83.130	ug/l	92
17) Carbon Disulfide	4.104	76	123987	19.532	ug/l	100
18) Methyl Acetate	4.385	43	21520	21.336	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	104712	20.396	ug/l	99
20) Methylene Chloride	4.616	84	48615	20.374	ug/l	93
21) trans-1,2-Dichloroethene	5.110	96	45523	20.068	ug/l	91
22) Diisopropyl ether	6.019	45	148861	21.102	ug/l	97
23) Vinyl Acetate	5.958	43	418814	104.026	ug/l	98
24) 1,1-Dichloroethane	5.915	63	85283	20.483	ug/l	98
25) 2-Butanone	6.890	43	59932	95.309	ug/l	97
26) 2,2-Dichloropropane	6.884	77	70954	18.521	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	51954	20.160	ug/l	99
28) Bromochloromethane	7.244	49	33556	19.224	ug/l	98
29) Tetrahydrofuran	7.256	42	40277	103.753	ug/l	99
30) Chloroform	7.415	83	91972	21.273	ug/l	96
31) Cyclohexane	7.701	56	73337	18.788	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	79136	19.991	ug/l	99
36) 1,1-Dichloropropene	7.835	75	62244	19.082	ug/l	98
37) Ethyl Acetate	6.988	43	29173	20.235	ug/l	97
38) Carbon Tetrachloride	7.817	117	70264	18.730	ug/l	98
39) Methylcyclohexane	9.110	83	72710	18.173	ug/l	99
40) Benzene	8.079	78	190921	19.869	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021429.D
Acq On : 06 Mar 2025 12:55
Operator : SY/MD
Sample : VY0306SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:39:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	15276	19.460	ug/l		95
42) 1,2-Dichloroethane	8.152	62	54960	20.446	ug/l		99
43) Isopropyl Acetate	8.195	43	54803	19.581	ug/l	#	88
44) Trichloroethene	8.866	130	46195	19.025	ug/l		93
45) 1,2-Dichloropropane	9.140	63	46832	20.478	ug/l		95
46) Dibromomethane	9.231	93	25456	20.006	ug/l		98
47) Bromodichloromethane	9.420	83	68125	20.160	ug/l		99
48) Methyl methacrylate	9.219	41	24350	18.947	ug/l		95
49) 1,4-Dioxane	9.225	88	5487	439.330	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.000	43	145575	100.811	ug/l		98
52) Toluene	10.170	92	119217	19.680	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	57714	19.386	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	68787	19.461	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	33986	20.418	ug/l		94
56) Ethyl methacrylate	10.439	69	41790	19.686	ug/l		98
57) 1,3-Dichloropropane	10.719	76	59572	20.650	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	105149	107.301	ug/l		98
59) 2-Hexanone	10.762	43	92172	96.532	ug/l		98
60) Dibromochloromethane	10.908	129	45450	19.918	ug/l		100
61) 1,2-Dibromoethane	11.012	107	31489	20.045	ug/l		100
64) Tetrachloroethene	10.646	164	43602	18.821	ug/l		97
65) Chlorobenzene	11.438	112	128907	19.161	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	45704	19.215	ug/l		98
67) Ethyl Benzene	11.518	91	220217	18.649	ug/l		99
68) m/p-Xylenes	11.627	106	169502	37.809	ug/l		98
69) o-Xylene	11.957	106	77803	18.830	ug/l		99
70) Styrene	11.969	104	133689	19.504	ug/l		99
71) Bromoform	12.127	173	26030	19.577	ug/l	#	100
73) Isopropylbenzene	12.255	105	208083	18.150	ug/l		99
74) N-amyl acetate	12.066	43	47561	19.102	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	38365	18.963	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	28008m	19.097	ug/l		
77) Bromobenzene	12.530	156	50969	19.003	ug/l		100
78) n-propylbenzene	12.597	91	256602	18.429	ug/l		100
79) 2-Chlorotoluene	12.682	91	149480	18.776	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	171567	18.415	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	11197	17.356	ug/l		94
82) 4-Chlorotoluene	12.780	91	153440	18.612	ug/l		99
83) tert-Butylbenzene	12.999	119	155498	18.709	ug/l		97
84) 1,2,4-Trimethylbenzene	13.042	105	175877	19.013	ug/l		99
85) sec-Butylbenzene	13.176	105	227701	18.413	ug/l		100
86) p-Isopropyltoluene	13.292	119	187268	18.381	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	98798	18.505	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	99121	18.984	ug/l		99
89) n-Butylbenzene	13.621	91	171306	18.209	ug/l		99
90) Hexachloroethane	13.877	117	39511	18.179	ug/l		97
91) 1,2-Dichlorobenzene	13.658	146	87985	19.228	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5795	19.122	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	46812	18.729	ug/l		97
94) Hexachlorobutadiene	15.023	225	30717	19.606	ug/l		96
95) Naphthalene	15.145	128	72201	19.111	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	39613	18.844	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021429.D
Acq On : 06 Mar 2025 12:55
Operator : SY/MD
Sample : VY0306SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:39:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025

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

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

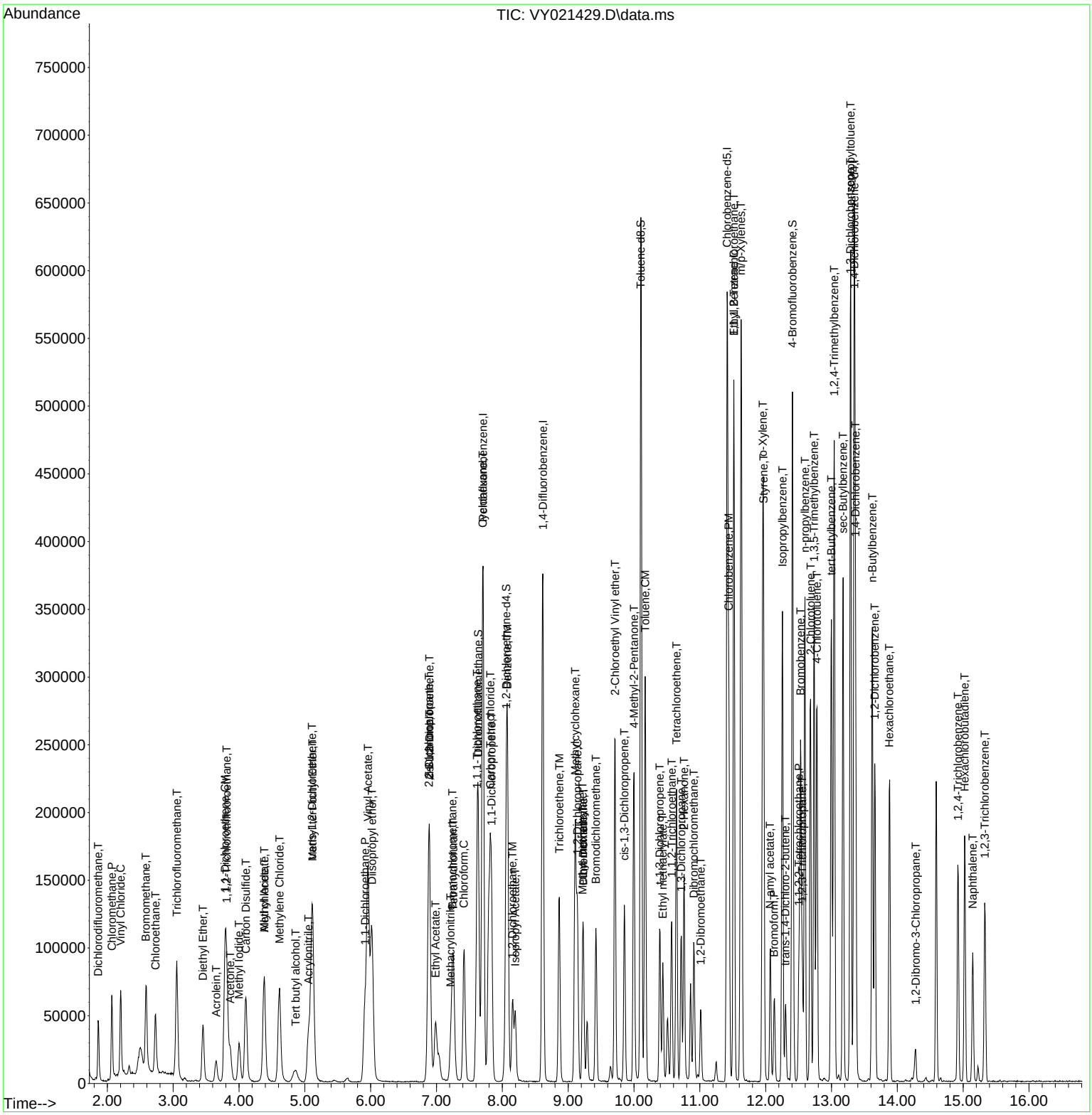
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
Data File : VY021429.D
Acq On : 06 Mar 2025 12:55
Operator : SY/MD
Sample : VY0306SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:39:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0306SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/07/2025
Supervised By :Semsettin Yesilyurt 03/07/2025



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

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX030525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045127.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:19:47 AM	MMDadoda	3/6/2025 2:56:18 PM	Peak Integrated by Software
VX0305WBS01	VX045130.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:19:51 AM	MMDadoda	3/6/2025 2:56:16 PM	Peak Integrated by Software
VX0305WBSD01	VX045135.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:20:00 AM	MMDadoda	3/6/2025 2:56:17 PM	Peak Integrated by Software
VSTDCCC050	VX045153.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:21:33 AM	MMDadoda	3/6/2025 2:56:19 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX030625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045155.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:16 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
VX0306WBS01	VX045158.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:21 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
Q1488-14DL	VX045161.D	Cyclohexane	JOHN	3/10/2025 9:41:25 AM	MMDadoda	3/10/2025 2:26:54 PM	Peak Integrated by Software
VSTDCCC050	VX045181.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:42:04 AM	MMDadoda	3/10/2025 2:27:00 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY030425	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY021397.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Methacrylonitrile	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Tert butyl alcohol	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	Ethyl Acetate	MMDadoda	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICCC050	VY021399.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:35 PM	SAM	3/6/2025 3:00:06 PM	Peak Integrated by Software
VSTDICC100	VY021400.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:49 PM	SAM	3/6/2025 3:00:09 PM	Peak Integrated by Software
VSTDICC150	VY021401.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:42 PM	SAM	3/6/2025 3:00:14 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	Ethyl Acetate	MMDadoda	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	Methacrylonitrile	MMDadoda	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY030425	Instrument	MSVOA_y

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:	vy030625	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021426.D	1,2,3-Trichloropropane	MMDadoda	3/7/2025 1:32:05 PM	SAM	3/7/2025 1:32:48 PM	Peak Integrated by Software
VY0306SBS01	VY021428.D	1,2,3-Trichloropropane	MMDadoda	3/7/2025 1:32:09 PM	SAM	3/7/2025 1:32:48 PM	Peak Integrated by Software
VY0306SBS01	VY021428.D	Methacrylonitrile	MMDadoda	3/7/2025 1:32:09 PM	SAM	3/7/2025 1:32:48 PM	Peak Integrated by Software
VY0306SBSD01	VY021429.D	1,2,3-Trichloropropane	MMDadoda	3/7/2025 1:32:03 PM	SAM	3/7/2025 1:32:48 PM	Peak Integrated by Software
VSTDCCC050	VY021449.D	1,2,3-Trichloropropane	MMDadoda	3/7/2025 1:31:54 PM	SAM	3/7/2025 1:32:50 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy030725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021451.D	1,2,3-Trichloropropane	MMDadoda	3/11/2025 2:51:32 PM	SAM	3/11/2025 2:52:15 PM	Peak Integrated by Software
VY0307SBS01	VY021453.D	1,2,3-Trichloropropane	MMDadoda	3/11/2025 2:51:33 PM	SAM	3/11/2025 2:52:16 PM	Peak Integrated by Software
VY0307SBS01	VY021453.D	Methacrylonitrile	MMDadoda	3/11/2025 2:51:33 PM	SAM	3/11/2025 2:52:16 PM	Peak Integrated by Software
Q1488-07	VY021459.D	Acetone	MMDadoda	3/11/2025 2:51:39 PM	SAM	3/11/2025 2:52:25 PM	Peak Integrated by Software
VSTDCCC050	VY021472.D	1,2,3-Trichloropropane	MMDadoda	3/11/2025 2:51:41 PM	SAM	3/11/2025 2:52:26 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDICC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDICCC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDICC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045126.D	05 Mar 2025 08:40	JC/MD	Ok
2	VSTDCCC050	VX045127.D	05 Mar 2025 09:12	JC/MD	Ok,M
3	VX0305MBL01	VX045128.D	05 Mar 2025 09:39	JC/MD	Ok
4	VX0305WBL01	VX045129.D	05 Mar 2025 10:03	JC/MD	Ok
5	VX0305WBS01	VX045130.D	05 Mar 2025 10:26	JC/MD	Ok,M
6	VX0305MBS01	VX045131.D	05 Mar 2025 10:53	JC/MD	Ok,M
7	Q1480-17	VX045132.D	05 Mar 2025 11:16	JC/MD	Ok
8	Q1448-04ME	VX045133.D	05 Mar 2025 11:40	JC/MD	Ok
9	IBLK	VX045134.D	05 Mar 2025 12:03	JC/MD	Ok
10	VX0305WBSD01	VX045135.D	05 Mar 2025 12:26	JC/MD	Ok,M
11	Q1478-04DL	VX045136.D	05 Mar 2025 12:50	JC/MD	Ok
12	Q1478-06DL	VX045137.D	05 Mar 2025 13:13	JC/MD	Ok
13	Q1478-02DL	VX045138.D	05 Mar 2025 13:36	JC/MD	Not Ok
14	Q1478-08	VX045139.D	05 Mar 2025 13:59	JC/MD	Not Ok
15	VX0305MBSD01	VX045140.D	05 Mar 2025 14:23	JC/MD	Ok,M
16	Q1448-04MEDL	VX045141.D	05 Mar 2025 14:46	JC/MD	Not Ok
17	IBLK	VX045142.D	05 Mar 2025 15:09	JC/MD	Ok
18	Q1478-08	VX045143.D	05 Mar 2025 15:32	JC/MD	Not Ok
19	Q1478-02DL	VX045144.D	05 Mar 2025 15:56	JC/MD	Ok
20	Q1478-08	VX045145.D	05 Mar 2025 16:19	JC/MD	Ok
21	Q1501-03	VX045146.D	05 Mar 2025 16:42	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1501-07	VX045147.D	05 Mar 2025 17:05	JC/MD	Ok
23	Q1501-04	VX045148.D	05 Mar 2025 17:28	JC/MD	Not Ok
24	Q1488-15	VX045149.D	05 Mar 2025 17:52	JC/MD	Ok
25	Q1488-13	VX045150.D	05 Mar 2025 18:15	JC/MD	Ok
26	Q1488-14	VX045151.D	05 Mar 2025 18:38	JC/MD	Dilution
27	Q1494-01	VX045152.D	05 Mar 2025 19:01	JC/MD	ReRun
28	VSTDCCC050	VX045153.D	05 Mar 2025 19:24	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045154.D	06 Mar 2025 09:09	JC/MD	Ok
2	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	JC/MD	Ok,M
3	VX0306MBL01	VX045156.D	06 Mar 2025 10:23	JC/MD	Ok
4	VX0306WBL01	VX045157.D	06 Mar 2025 10:46	JC/MD	Ok
5	VX0306WBS01	VX045158.D	06 Mar 2025 11:10	JC/MD	Ok,M
6	Q1501-01	VX045159.D	06 Mar 2025 11:36	JC/MD	Ok
7	Q1501-02	VX045160.D	06 Mar 2025 12:00	JC/MD	Ok
8	Q1488-14DL	VX045161.D	06 Mar 2025 12:23	JC/MD	Ok,M
9	Q1501-04	VX045162.D	06 Mar 2025 12:46	JC/MD	ReRun
10	Q1501-05MS	VX045163.D	06 Mar 2025 13:09	JC/MD	Ok,M
11	Q1501-06MSD	VX045164.D	06 Mar 2025 13:33	JC/MD	Ok,M
12	Q1484-06	VX045165.D	06 Mar 2025 13:56	JC/MD	Ok
13	Q1494-01	VX045166.D	06 Mar 2025 14:19	JC/MD	Ok
14	Q1501-04RE	VX045167.D	06 Mar 2025 14:43	JC/MD	Confirms
15	PB166989TB	VX045168.D	06 Mar 2025 15:06	JC/MD	Ok
16	Q1481-02	VX045169.D	06 Mar 2025 15:29	JC/MD	Ok,M
17	Q1488-02	VX045170.D	06 Mar 2025 15:52	JC/MD	Ok
18	Q1488-04	VX045171.D	06 Mar 2025 16:16	JC/MD	Ok
19	Q1488-06	VX045172.D	06 Mar 2025 16:39	JC/MD	Ok
20	Q1488-08	VX045173.D	06 Mar 2025 17:02	JC/MD	Ok
21	Q1488-10	VX045174.D	06 Mar 2025 17:25	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1488-12	VX045175.D	06 Mar 2025 17:49	JC/MD	Ok
23	Q1490-02	VX045176.D	06 Mar 2025 18:12	JC/MD	Ok
24	Q1494-04	VX045177.D	06 Mar 2025 18:35	JC/MD	Ok
25	Q1494-06	VX045178.D	06 Mar 2025 18:59	JC/MD	Ok
26	Q1494-08	VX045179.D	06 Mar 2025 19:22	JC/MD	Ok
27	Q1478-15	VX045180.D	06 Mar 2025 19:45	JC/MD	Ok
28	VSTDCCC050	VX045181.D	06 Mar 2025 20:09	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM				
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133216
Initial Calibration Stds	VP133207,VP133208,VP133209,VP133210,VP133211,VP133212
CCC	VP133214,VP133215
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133213
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021395.D	04 Mar 2025 08:52	SY/MD	Ok
2	VSTDICC005	VY021396.D	04 Mar 2025 09:23	SY/MD	Not Ok
3	VSTDICC010	VY021397.D	04 Mar 2025 09:46	SY/MD	Ok,M
4	VSTDICC020	VY021398.D	04 Mar 2025 10:09	SY/MD	Ok,M
5	VSTDICCC050	VY021399.D	04 Mar 2025 10:30	SY/MD	Ok,M
6	VSTDICC100	VY021400.D	04 Mar 2025 11:06	SY/MD	Ok,M
7	VSTDICC150	VY021401.D	04 Mar 2025 11:29	SY/MD	Ok,M
8	VIBLK	VY021402.D	04 Mar 2025 11:52	SY/MD	Ok
9	VSTDICC005	VY021403.D	04 Mar 2025 12:15	SY/MD	Ok,M
10	VSTDICV050	VY021404.D	04 Mar 2025 13:12	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030625

Review By	Mahesh Dadoda	Review On	3/7/2025 1:32:16 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/7/2025 1:32:53 PM		
SubDirectory	VY030625	HP Acquire Method		HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133223
Initial Calibration Stds	
CCC	VP133224,VP133225
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	VY021425.D	06 Mar 2025 09:39	SY/MD	Ok
2	VSTDCCC050	VY021426.D	06 Mar 2025 10:10	SY/MD	Ok,M
3	VY0306SBL01	VY021427.D	06 Mar 2025 11:59	SY/MD	Ok
4	VY0306SBS01	VY021428.D	06 Mar 2025 12:33	SY/MD	Ok,M
5	VY0306SBSD01	VY021429.D	06 Mar 2025 12:55	SY/MD	Ok,M
6	Q1489-05	VY021430.D	06 Mar 2025 13:28	SY/MD	Ok
7	Q1489-01	VY021431.D	06 Mar 2025 13:52	SY/MD	Not Ok
8	Q1421-09	VY021432.D	06 Mar 2025 14:15	SY/MD	Ok
9	Q1479-01	VY021433.D	06 Mar 2025 14:39	SY/MD	Ok
10	Q1479-02	VY021434.D	06 Mar 2025 15:02	SY/MD	ReRun
11	Q1488-01	VY021435.D	06 Mar 2025 15:25	SY/MD	Ok
12	Q1488-03	VY021436.D	06 Mar 2025 15:49	SY/MD	Ok
13	Q1488-05	VY021437.D	06 Mar 2025 16:12	SY/MD	Ok
14	Q1488-07	VY021438.D	06 Mar 2025 16:36	SY/MD	Not Ok
15	Q1488-09	VY021439.D	06 Mar 2025 16:59	SY/MD	ReRun
16	Q1488-11	VY021440.D	06 Mar 2025 17:22	SY/MD	Not Ok
17	Q1463-01	VY021441.D	06 Mar 2025 17:46	SY/MD	Ok
18	Q1463-05	VY021442.D	06 Mar 2025 18:09	SY/MD	Ok
19	Q1463-04	VY021443.D	06 Mar 2025 18:33	SY/MD	Ok
20	Q1463-06	VY021444.D	06 Mar 2025 18:56	SY/MD	Ok
21	Q1463-07	VY021445.D	06 Mar 2025 19:20	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030625

Review By	Mahesh Dadoda	Review On	3/7/2025 1:32:16 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/7/2025 1:32:53 PM		
SubDirectory	VY030625	HP Acquire Method		HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133223
Initial Calibration Stds	
CCC	VP133224,VP133225
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1463-08	VY021446.D	06 Mar 2025 19:43	SY/MD	Ok
23	Q1463-09	VY021447.D	06 Mar 2025 20:06	SY/MD	Ok
24	Q1463-10	VY021448.D	06 Mar 2025 20:30	SY/MD	ReRun
25	VSTDCCC050	VY021449.D	06 Mar 2025 21:15	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030725

Review By	Mahesh Dadoda	Review On	3/11/2025 2:51:48 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/11/2025 2:52:31 PM				
SubDirectory	VY030725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133232
Initial Calibration Stds	
CCC	VP133233,VP133234
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	VY021450.D	07 Mar 2025 09:27	SY/MD	Ok
2	VSTDCCC050	VY021451.D	07 Mar 2025 09:59	SY/MD	Ok,M
3	VY0307SBL01	VY021452.D	07 Mar 2025 10:35	SY/MD	Ok
4	VY0307SBS01	VY021453.D	07 Mar 2025 12:03	SY/MD	Ok,M
5	VY0307SBSD01	VY021454.D	07 Mar 2025 12:26	SY/MD	Ok,M
6	Q1463-03	VY021455.D	07 Mar 2025 12:55	SY/MD	Ok,M
7	Q1479-02	VY021456.D	07 Mar 2025 13:18	SY/MD	Ok,M
8	Q1463-02	VY021457.D	07 Mar 2025 13:42	SY/MD	ReRun
9	Q1463-10	VY021458.D	07 Mar 2025 14:05	SY/MD	Ok
10	Q1488-07	VY021459.D	07 Mar 2025 14:28	SY/MD	Ok,M
11	Q1488-09	VY021460.D	07 Mar 2025 14:52	SY/MD	Ok
12	Q1488-11	VY021461.D	07 Mar 2025 15:15	SY/MD	Ok
13	Q1514-01	VY021462.D	07 Mar 2025 15:39	SY/MD	ReRun
14	Q1514-03	VY021463.D	07 Mar 2025 16:02	SY/MD	ReRun
15	Q1514-05	VY021464.D	07 Mar 2025 16:25	SY/MD	ReRun
16	Q1515-02	VY021465.D	07 Mar 2025 16:49	SY/MD	ReRun
17	Q1507-01	VY021466.D	07 Mar 2025 17:12	SY/MD	Not Ok
18	Q1508-01	VY021467.D	07 Mar 2025 17:36	SY/MD	ReRun
19	Q1494-05	VY021468.D	07 Mar 2025 17:59	SY/MD	ReRun
20	Q1494-03	VY021469.D	07 Mar 2025 18:23	SY/MD	ReRun
21	Q1494-07	VY021470.D	07 Mar 2025 18:46	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030725

Review By	Mahesh Dadoda	Review On	3/11/2025 2:51:48 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/11/2025 2:52:31 PM				
SubDirectory	VY030725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133232
Initial Calibration Stds	
CCC	VP133233,VP133234
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1490-01	VY021471.D	07 Mar 2025 19:09	SY/MD	Not Ok
23	VSTDCCC050	VY021472.D	07 Mar 2025 19:32	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
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	VX045126.D	05 Mar 2025 08:40		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045127.D	05 Mar 2025 09:12	pH#Lot#V12668	JC/MD	Ok,M
3	VX0305MBL01	VX0305MBL01	VX045128.D	05 Mar 2025 09:39		JC/MD	Ok
4	VX0305WBL01	VX0305WBL01	VX045129.D	05 Mar 2025 10:03		JC/MD	Ok
5	VX0305WBS01	VX0305WBS01	VX045130.D	05 Mar 2025 10:26		JC/MD	Ok,M
6	VX0305MBS01	VX0305MBS01	VX045131.D	05 Mar 2025 10:53		JC/MD	Ok,M
7	Q1480-17	TP-3	VX045132.D	05 Mar 2025 11:16		JC/MD	Ok
8	Q1448-04ME	P3ME	VX045133.D	05 Mar 2025 11:40		JC/MD	Ok
9	IBLK	IBLK	VX045134.D	05 Mar 2025 12:03		JC/MD	Ok
10	VX0305WBSD01	VX0305WBSD01	VX045135.D	05 Mar 2025 12:26		JC/MD	Ok,M
11	Q1478-04DL	IDW-AQ-DRUM-616-02	VX045136.D	05 Mar 2025 12:50	vial B pH<2	JC/MD	Ok
12	Q1478-06DL	IDW-AQ-DRUM-614-02	VX045137.D	05 Mar 2025 13:13	vial B pH<2	JC/MD	Ok
13	Q1478-02DL	IDW-AQ-DRUM-610-02	VX045138.D	05 Mar 2025 13:36	Not req.	JC/MD	Not Ok
14	Q1478-08	IDW-AQ-DRUM-612-02	VX045139.D	05 Mar 2025 13:59	Need lower dilution	JC/MD	Not Ok
15	VX0305MBSD01	VX0305MBSD01	VX045140.D	05 Mar 2025 14:23		JC/MD	Ok,M
16	Q1448-04MEDL	P3MEDL	VX045141.D	05 Mar 2025 14:46	Not req.	JC/MD	Not Ok
17	IBLK	IBLK	VX045142.D	05 Mar 2025 15:09		JC/MD	Ok
18	Q1478-08	IDW-AQ-DRUM-612-02	VX045143.D	05 Mar 2025 15:32	Need lower dilution	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1478-02DL	IDW-AQ-DRUM-610-02	VX045144.D	05 Mar 2025 15:56	vial B pH<2	JC/MD	Ok
20	Q1478-08	IDW-AQ-DRUM-612-02	VX045145.D	05 Mar 2025 16:19	vial A pH<2	JC/MD	Ok
21	Q1501-03	EB01-030525	VX045146.D	05 Mar 2025 16:42	vial A pH<2 EB	JC/MD	Ok
22	Q1501-07	TB01-030525	VX045147.D	05 Mar 2025 17:05	vial A pH<2 TB	JC/MD	Ok
23	Q1501-04	BR-05-465-030525	VX045148.D	05 Mar 2025 17:28	Need Straight Run	JC/MD	Not Ok
24	Q1488-15	TB03042025	VX045149.D	05 Mar 2025 17:52	vial A pH<2 TB	JC/MD	Ok
25	Q1488-13	ENV-102-GW01	VX045150.D	05 Mar 2025 18:15	vial A pH<2	JC/MD	Ok
26	Q1488-14	ENV-104-GW01	VX045151.D	05 Mar 2025 18:38	vial A pH<2 Need 4X	JC/MD	Dilution
27	Q1494-01	PURGE-WATER	VX045152.D	05 Mar 2025 19:01	vial A pH<2 E flag in previous sample	JC/MD	ReRun
28	VSTDCCC050	VSTDCCC050EC	VX045153.D	05 Mar 2025 19:24		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
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	VX045154.D	06 Mar 2025 09:09		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	pH#Lot#V12668	JC/MD	Ok,M
3	VX0306MBL01	VX0306MBL01	VX045156.D	06 Mar 2025 10:23		JC/MD	Ok
4	VX0306WBL01	VX0306WBL01	VX045157.D	06 Mar 2025 10:46		JC/MD	Ok
5	VX0306WBS01	VX0306WBS01	VX045158.D	06 Mar 2025 11:10		JC/MD	Ok,M
6	Q1501-01	MW-16B-87.5-030425	VX045159.D	06 Mar 2025 11:36	vial A pH<2	JC/MD	Ok
7	Q1501-02	MW-16B-87.5-030425-I	VX045160.D	06 Mar 2025 12:00	vial A pH<2	JC/MD	Ok
8	Q1488-14DL	ENV-104-GW01DL	VX045161.D	06 Mar 2025 12:23	vial B pH<2	JC/MD	Ok,M
9	Q1501-04	BR-05-465-030525	VX045162.D	06 Mar 2025 12:46	vial A pH<2 Surrogate Fail	JC/MD	ReRun
10	Q1501-05MS	BR-05-465-030525MS	VX045163.D	06 Mar 2025 13:09	vial A pH<2	JC/MD	Ok,M
11	Q1501-06MSD	BR-05-465-030525MSD	VX045164.D	06 Mar 2025 13:33	vial A pH<2	JC/MD	Ok,M
12	Q1484-06	TR-OTR-COMP-01	VX045165.D	06 Mar 2025 13:56	vial A pH#5.0	JC/MD	Ok
13	Q1494-01	PURGE-WATER	VX045166.D	06 Mar 2025 14:19	vial B pH<2	JC/MD	Ok
14	Q1501-04RE	BR-05-465-030525RE	VX045167.D	06 Mar 2025 14:43	vial B pH<2 Surrogate Fail	JC/MD	Confirms
15	PB166989TB	PB166989TB	VX045168.D	06 Mar 2025 15:06		JC/MD	Ok
16	Q1481-02	WC-K1311	VX045169.D	06 Mar 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
17	Q1488-02	ENV-101-SB01	VX045170.D	06 Mar 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1488-04	ENV-101-SB02	VX045171.D	06 Mar 2025 16:16	vial A pH#5.0	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1488-06	ENV-102-SB01	VX045172.D	06 Mar 2025 16:39	vial A pH#5.0	JC/MD	Ok
20	Q1488-08	ENV-102-SB02	VX045173.D	06 Mar 2025 17:02	vial A pH#5.0	JC/MD	Ok
21	Q1488-10	ENV-104-SB01	VX045174.D	06 Mar 2025 17:25	vial A pH#5.0	JC/MD	Ok
22	Q1488-12	ENV-104-SB02	VX045175.D	06 Mar 2025 17:49	vial A pH#5.0	JC/MD	Ok
23	Q1490-02	CLAY-SLUDGE-DRUM	VX045176.D	06 Mar 2025 18:12	vial A pH#5.0	JC/MD	Ok
24	Q1494-04	ASPHALT-SOIL	VX045177.D	06 Mar 2025 18:35	vial A pH#5.0	JC/MD	Ok
25	Q1494-06	SOIL	VX045178.D	06 Mar 2025 18:59	vial A pH#5.0	JC/MD	Ok
26	Q1494-08	SOIL-COMP	VX045179.D	06 Mar 2025 19:22	vial A pH#5.0	JC/MD	Ok
27	Q1478-15	IDW-SO-DRUM-582-02	VX045180.D	06 Mar 2025 19:45	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX045181.D	06 Mar 2025 20:09		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM		
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133216
Initial Calibration Stds	VP133207,VP133208,VP133209,VP133210,VP133211,VP133212
CCC	VP133214,VP133215
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133213
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021395.D	04 Mar 2025 08:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021396.D	04 Mar 2025 09:23	not used	SY/MD	Not Ok
3	VSTDICC010	VSTDICC010	VY021397.D	04 Mar 2025 09:46		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021398.D	04 Mar 2025 10:09	Comp.#11 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021399.D	04 Mar 2025 10:30	Comp.#95 is on Quadratic Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021400.D	04 Mar 2025 11:06		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021401.D	04 Mar 2025 11:29	Method fail for comp.#13	SY/MD	Ok,M
8	VIBLK	VIBLK	VY021402.D	04 Mar 2025 11:52		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY021403.D	04 Mar 2025 12:15		SY/MD	Ok,M
10	VSTDICV050	ICVVY030425	VY021404.D	04 Mar 2025 13:12		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030625

Review By	Mahesh Dadoda	Review On	3/7/2025 1:32:16 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/7/2025 1:32:53 PM		
SubDirectory	VY030625	HP Acquire Method		HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133223
Initial Calibration Stds	
CCC	VP133224,VP133225
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	VY021425.D	06 Mar 2025 09:39		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021426.D	06 Mar 2025 10:10		SY/MD	Ok,M
3	VY0306SBL01	VY0306SBL01	VY021427.D	06 Mar 2025 11:59		SY/MD	Ok
4	VY0306SBS01	VY0306SBS01	VY021428.D	06 Mar 2025 12:33		SY/MD	Ok,M
5	VY0306SBSD01	VY0306SBSD01	VY021429.D	06 Mar 2025 12:55		SY/MD	Ok,M
6	Q1489-05	TP-2	VY021430.D	06 Mar 2025 13:28	vial-B	SY/MD	Ok
7	Q1489-01	TP-1	VY021431.D	06 Mar 2025 13:52	vial-B Not purge	SY/MD	Not Ok
8	Q1421-09	P001-CLAY-CF02-01	VY021432.D	06 Mar 2025 14:15	vial-B	SY/MD	Ok
9	Q1479-01	P5	VY021433.D	06 Mar 2025 14:39	vial-A	SY/MD	Ok
10	Q1479-02	DSP2	VY021434.D	06 Mar 2025 15:02	vial-A Internal Standard Fail	SY/MD	ReRun
11	Q1488-01	ENV-101-SB01	VY021435.D	06 Mar 2025 15:25	vial-A	SY/MD	Ok
12	Q1488-03	ENV-101-SB02	VY021436.D	06 Mar 2025 15:49	vial-A	SY/MD	Ok
13	Q1488-05	ENV-102-SB01	VY021437.D	06 Mar 2025 16:12	vial-A	SY/MD	Ok
14	Q1488-07	ENV-102-SB02	VY021438.D	06 Mar 2025 16:36	vial-A Not purge	SY/MD	Not Ok
15	Q1488-09	ENV-104-SB01	VY021439.D	06 Mar 2025 16:59	vial-A Internal Standard Fail	SY/MD	ReRun
16	Q1488-11	ENV-104-SB02	VY021440.D	06 Mar 2025 17:22	vial-A Not purge	SY/MD	Not Ok
17	Q1463-01	T1	VY021441.D	06 Mar 2025 17:46	vial-B	SY/MD	Ok
18	Q1463-05	T5	VY021442.D	06 Mar 2025 18:09	vial-B	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030625

Review By	Mahesh Dadoda	Review On	3/7/2025 1:32:16 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/7/2025 1:32:53 PM		
SubDirectory	VY030625	HP Acquire Method		HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133223
Initial Calibration Stds	
CCC	VP133224,VP133225
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1463-04	T4	VY021443.D	06 Mar 2025 18:33	Vial-B	SY/MD	Ok
20	Q1463-06	T6	VY021444.D	06 Mar 2025 18:56	Vial-A	SY/MD	Ok
21	Q1463-07	T7	VY021445.D	06 Mar 2025 19:20	Vial-A	SY/MD	Ok
22	Q1463-08	T8	VY021446.D	06 Mar 2025 19:43	Vial-A	SY/MD	Ok
23	Q1463-09	T9	VY021447.D	06 Mar 2025 20:06	Vial-A	SY/MD	Ok
24	Q1463-10	T10	VY021448.D	06 Mar 2025 20:30	Vial-A Internal Standard Fail; Surrogate Fail	SY/MD	ReRun
25	VSTDCCC050	VSTDCCC050EC	VY021449.D	06 Mar 2025 21:15		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030725

Review By	Mahesh Dadoda	Review On	3/11/2025 2:51:48 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/11/2025 2:52:31 PM		
SubDirectory	VY030725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133232
Initial Calibration Stds	
CCC	VP133233,VP133234
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	VY021450.D	07 Mar 2025 09:27		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021451.D	07 Mar 2025 09:59		SY/MD	Ok,M
3	VY0307SBL01	VY0307SBL01	VY021452.D	07 Mar 2025 10:35		SY/MD	Ok
4	VY0307SBS01	VY0307SBS01	VY021453.D	07 Mar 2025 12:03		SY/MD	Ok,M
5	VY0307SBSD01	VY0307SBSD01	VY021454.D	07 Mar 2025 12:26	BSD Failed Low for com.#73,87,88	SY/MD	Ok,M
6	Q1463-03	T3	VY021455.D	07 Mar 2025 12:55	vial-B	SY/MD	Ok,M
7	Q1479-02	DSP2	VY021456.D	07 Mar 2025 13:18	vial-B	SY/MD	Ok,M
8	Q1463-02	T2	VY021457.D	07 Mar 2025 13:42	vial-A Internal standard fail	SY/MD	ReRun
9	Q1463-10	T10	VY021458.D	07 Mar 2025 14:05	vial-B	SY/MD	Ok
10	Q1488-07	ENV-102-SB02	VY021459.D	07 Mar 2025 14:28	vial-B	SY/MD	Ok,M
11	Q1488-09	ENV-104-SB01	VY021460.D	07 Mar 2025 14:52	Vial-B	SY/MD	Ok
12	Q1488-11	ENV-104-SB02	VY021461.D	07 Mar 2025 15:15	Vial-B Internal standard fail	SY/MD	Ok
13	Q1514-01	ENV-105-SB01	VY021462.D	07 Mar 2025 15:39	Vial-A BSD failed Low	SY/MD	ReRun
14	Q1514-03	ENV-105-SB02	VY021463.D	07 Mar 2025 16:02	Vial-A BSD failed Low	SY/MD	ReRun
15	Q1514-05	ENV-103-SB01	VY021464.D	07 Mar 2025 16:25	Vial-A BSD failed Low	SY/MD	ReRun
16	Q1515-02	AU-06-030625-E2	VY021465.D	07 Mar 2025 16:49	Vial-A Internal standard fail;Surrogate fail	SY/MD	ReRun
17	Q1507-01	50-MIDDLESEX-AVE	VY021466.D	07 Mar 2025 17:12	Vial-A Not purge	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030725

Review By	Mahesh Dadoda	Review On	3/11/2025 2:51:48 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/11/2025 2:52:31 PM		
SubDirectory	VY030725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133232
Initial Calibration Stds	
CCC	VP133233,VP133234
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1508-01	RBR251372	VY021467.D	07 Mar 2025 17:36	Vial-A Internal standard fail	SY/MD	ReRun
19	Q1494-05	SOIL	VY021468.D	07 Mar 2025 17:59	Vial-A Internal standard fail	SY/MD	ReRun
20	Q1494-03	ASPHALT-SOIL	VY021469.D	07 Mar 2025 18:23	Vial-A Internal standard fail	SY/MD	ReRun
21	Q1494-07	SOIL-COMP	VY021470.D	07 Mar 2025 18:46	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1490-01	CLAY-SLUDGE-DRUM	VY021471.D	07 Mar 2025 19:09	Vial-A Not purge	SY/MD	Not Ok
23	VSTDCCC050	VSTDCCC050EC	VY021472.D	07 Mar 2025 19:32		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/06/25	
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/06/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/06/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/07/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/07/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			VOC-TCLVOA-10	8260D			03/07/25	
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**			**03/04/25**

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LAB CHRONICLE

			TCLP VOA	8260D		03/06/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**		**03/04/25**
			VOC-TCLVOA-10	8260-Low		03/05/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**		**03/04/25**
			VOC-TCLVOA-10	8260-Low		03/05/25	
Q1488-14DL	**ENV-104-GW01DL**	**Water**			**03/04/25**		**03/04/25**
			VOC-TCLVOA-10	8260-Low		03/06/25	
Q1488-15	**TB03042025**	**Water**			**03/04/25**		**03/04/25**
			VOC-TCLVOA-10	8260-Low		03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**ENV-101-SB01**							
Q1488-02	ENV-101-SB01	TCLP	2-Butanone	5.20	J	1.30	25.0	ug/L
			Total Voc :	5.20				
			Total Concentration:	5.20				
Client ID:	**ENV-101-SB02**							
Q1488-04	ENV-101-SB02	TCLP	2-Butanone	6.10	J	1.30	25.0	ug/L
			Total Voc :	6.10				
			Total Concentration:	6.10				
Client ID:	**ENV-102-SB01**							
Q1488-06	ENV-102-SB01	TCLP	2-Butanone	6.20	J	1.30	25.0	ug/L
			Total Voc :	6.20				
			Total Concentration:	6.20				
Client ID:	**ENV-102-SB02**							
Q1488-08	ENV-102-SB02	TCLP	2-Butanone	5.70	J	1.30	25.0	ug/L
			Total Voc :	5.70				
			Total Concentration:	5.70				
Client ID:	**ENV-104-SB01**							
Q1488-10	ENV-104-SB01	TCLP	2-Butanone	5.40	J	1.30	25.0	ug/L
			Total Voc :	5.40				
			Total Concentration:	5.40				
Client ID:	**ENV-104-SB02**							
Q1488-12	ENV-104-SB02	TCLP	2-Butanone	6.80	J	1.30	25.0	ug/L
			Total Voc :	6.80				
			Total Concentration:	6.80				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	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
VX045170.D	1		03/06/25 15:52	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	78700	5.55			
540-36-3	1,4-Difluorobenzene	161000	6.757			
3114-55-4	Chlorobenzene-d5	146000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59900	12.018			

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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
VX045171.D	1		03/06/25 16:16	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.10	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	153000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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
VX045172.D	1		03/06/25 16:39	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84600	5.55			
540-36-3	1,4-Difluorobenzene	168000	6.757			
3114-55-4	Chlorobenzene-d5	153000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	63000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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
VX045173.D	1		03/06/25 17:02	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.70	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	156000	6.757			
3114-55-4	Chlorobenzene-d5	140000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57300	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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
VX045174.D	1		03/06/25 17:25	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	51.6		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	75500	5.55			
540-36-3	1,4-Difluorobenzene	152000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55500	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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
VX045175.D	1		03/06/25 17:49	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.80	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75000	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.757			
3114-55-4	Chlorobenzene-d5	137000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56400	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

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

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1488-02	ENV-101-SB01	1,2-Dichloroethane-d4	50	54.4	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104	70 (77)	130 (121)
Q1488-04	ENV-101-SB02	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
Q1488-06	ENV-102-SB01	1,2-Dichloroethane-d4	50	53.8	108	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104	70 (77)	130 (121)
Q1488-08	ENV-102-SB02	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102	70 (77)	130 (121)
Q1488-10	ENV-104-SB01	1,2-Dichloroethane-d4	50	52.8	106	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	51.6	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
Q1488-12	ENV-104-SB02	1,2-Dichloroethane-d4	50	52.4	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1501-05MS	BR-05-465-030525MS	1,2-Dichloroethane-d4	50	51.4	103		70 (74)	130 (125)
		Dibromofluoromethane	50	0	0	*	70 (75)	130 (124)
		Toluene-d8	50	53.2	106		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.7	109		70 (77)	130 (121)
Q1501-06MSD	BR-05-465-030525MSD	1,2-Dichloroethane-d4	50	49.2	98		70 (74)	130 (125)
		Dibromofluoromethane	50	0	0	*	70 (75)	130 (124)
		Toluene-d8	50	48.1	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98		70 (77)	130 (121)
VX0306WBL01	VX0306WBL01	1,2-Dichloroethane-d4	50	53.9	108		70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105		70 (75)	130 (124)
		Toluene-d8	50	52.3	105		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104		70 (77)	130 (121)
VX0306WBS01	VX0306WBS01	1,2-Dichloroethane-d4	50	50.2	100		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	50.3	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98		70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = 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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID :	**Q1501-05MS**	**Client Sample ID :**	**BR-05-465-030525MS**						**Datafile :**	VX045163.D	
Vinyl chloride	50	0	47.4	ug/L	95				70 (69)	130 (125)	
1,1-Dichloroethene	50	0	70.0	ug/L	140	*			70 (53)	130 (162)	
2-Butanone	250	5.70	290	ug/L	114				40 (67)	160 (137)	
Carbon Tetrachloride	50	0	50.1	ug/L	100				70 (66)	130 (133)	
Chloroform	50	0	50.2	ug/L	100				70 (83)	130 (119)	
Benzene	50	0	51.7	ug/L	103				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	51.6	ug/L	103				70 (76)	130 (120)	
Trichloroethene	50	0	94.9	ug/L	190	*			70 (28)	130 (175)	
Tetrachloroethene	50	0	88.9	ug/L	178	*			70 (48)	130 (153)	
Chlorobenzene	50	0	51.6	ug/L	103				70 (85)	130 (114)	

( ) = 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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID :	**Q1501-06MSD**	**Client Sample ID :**	**BR-05-465-030525MSD**					**Datafile :**	VX045164.D		
Vinyl chloride	50	0	43.3	ug/L	87		9		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	73.0	ug/L	146	*	4		70 (53)	130 (162)	20 (20)
2-Butanone	250	5.70	280	ug/L	110		4		40 (67)	160 (137)	20 (20)
Carbon Tetrachloride	50	0	47.3	ug/L	95		6		70 (66)	130 (133)	20 (20)
Chloroform	50	0	48.6	ug/L	97		3		70 (83)	130 (119)	20 (20)
Benzene	50	0	49.0	ug/L	98		5		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	49.8	ug/L	100		4		70 (76)	130 (120)	20 (20)
Trichloroethene	50	0	91.5	ug/L	183	*	4		70 (28)	130 (175)	20 (20)
Tetrachloroethene	50	0	85.3	ug/L	171	*	4		70 (48)	130 (153)	20 (20)
Chlorobenzene	50	0	49.8	ug/L	100		4		70 (85)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0306WBS01	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	21.3	ug/L	106			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.5	ug/L	103			70 (77)	130 (113)	
	Chloroform	20	21.2	ug/L	106			70 (79)	130 (113)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.8	ug/L	104			70 (77)	130 (113)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.6	ug/L	108			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0306WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045157.D Lab Sample ID: VX0306WBL01

Date Analyzed: 03/06/2025 Time Analyzed: 10:46

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
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045067.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_X BFB Injection Time: 01:03

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	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045068.D	02/28/2025	01:27
VSTDICC005	VSTDICC005	VX045069.D	02/28/2025	02:13
VSTDICC020	VSTDICC020	VX045070.D	02/28/2025	02:37
VSTDICCC050	VSTDICCC050	VX045071.D	02/28/2025	03:00
VSTDICC100	VSTDICC100	VX045072.D	02/28/2025	03:23
VSTDICC150	VSTDICC150	VX045073.D	02/28/2025	03:47

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045154.D BFB Injection Date: 03/06/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:09

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	67.9 (96.1) 1
177	5.0 - 9.0% of mass 176	4.5 (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	VX045155.D	03/06/2025	09:56
VX0306WBL01	VX0306WBL01	VX045157.D	03/06/2025	10:46
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025	11:10
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025	13:09
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025	13:33
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025	15:52
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025	16:16
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025	16:39
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025	17:02
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025	17:25
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025	17:49

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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	99532	5.54	175834	6.76	153746	10.05
UPPER LIMIT	199064	6.044	351668	7.257	307492	10.549
LOWER LIMIT	49766	5.044	87917	6.257	76873	9.549
EPA SAMPLE NO.						
ENV-101-SB01	78735	5.55	160534	6.76	146470	10.05
ENV-101-SB02	76620	5.54	153454	6.76	144581	10.05
ENV-102-SB01	84608	5.55	167928	6.76	153445	10.05
ENV-102-SB02	76581	5.54	156077	6.76	139915	10.05
ENV-104-SB01	75491	5.55	152473	6.76	138291	10.05
ENV-104-SB02	75040	5.55	148256	6.76	137450	10.05
BR-05-465-030525MS	101112	5.54	179083	6.76	156313	10.06
BR-05-465-030525MSD	100565	5.55	182698	6.76	154927	10.05
VX0306WBL01	71177	5.54	139793	6.76	129041	10.05
VX0306WBS01	97102	5.54	175752	6.76	147757	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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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

	IS4 AREA #	RT #				
12 HOUR STD	69403	12.018				
UPPER LIMIT	138806	12.518				
LOWER LIMIT	34701.5	11.518				
EPA SAMPLE NO.						
ENV-101-SB01	59867	12.02				
ENV-101-SB02	55987	12.02				
ENV-102-SB01	63036	12.02				
ENV-102-SB02	57260	12.02				
ENV-104-SB01	55464	12.02				
ENV-104-SB02	56384	12.02				
BR-05-465-030525MS	67219	12.02				
BR-05-465-030525MSD	68360	12.02				
VX0306WBL01	53719	12.02				
VX0306WBS01	67123	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	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
VX045157.D	1		03/06/25 10:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.544			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53700	12.024			

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	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
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.3		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.5		0.25	1.00	ug/L
67-66-3	Chloroform	21.2		0.26	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97100	5.544			
540-36-3	1,4-Difluorobenzene	176000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67100	12.024			

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MS	SDG No.:	Q1488
Lab Sample ID:	Q1501-05MS	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
VX045163.D	1		03/06/25 13:09	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	47.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	70.0		0.26	1.00	ug/L
78-93-3	2-Butanone	290		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	50.1		0.25	1.00	ug/L
67-66-3	Chloroform	50.2		0.26	1.00	ug/L
71-43-2	Benzene	51.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	94.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	88.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	51.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.543			
540-36-3	1,4-Difluorobenzene	179000	6.757			
3114-55-4	Chlorobenzene-d5	156000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	67200	12.018			

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MSD	SDG No.:	Q1488
Lab Sample ID:	Q1501-06MSD	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
VX045164.D	1		03/06/25 13:33	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	43.3		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	73.0		0.26	1.00	ug/L
78-93-3	2-Butanone	280		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	47.3		0.25	1.00	ug/L
67-66-3	Chloroform	48.6		0.26	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	49.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	91.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	85.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	49.8		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	183000	6.757			
3114-55-4	Chlorobenzene-d5	155000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	68400	12.018			

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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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7

* 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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.764	0.725		-5.11	20
1,1-Dichloroethene	0.614	0.600		-2.28	20
2-Butanone	0.555	0.564		1.62	20
Carbon Tetrachloride	0.465	0.458		-1.5	20
Chloroform	1.239	1.209		-2.42	20
Benzene	1.448	1.464		1.11	20
1,2-Dichloroethane	0.521	0.534		2.49	20
Trichloroethene	0.340	0.341		0.29	20
Tetrachloroethene	0.320	0.322		0.63	20
Chlorobenzene	1.058	1.078	0.3	1.89	20
1,2-Dichloroethane-d4	0.795	0.783		-1.51	20
Dibromofluoromethane	0.334	0.341		2.1	20
Toluene-d8	1.212	1.244		2.64	20
4-Bromofluorobenzene	0.402	0.419		4.23	20

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

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045170.D
Acq On : 06 Mar 2025 15:52
Operator : JC/MD
Sample : Q1488-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

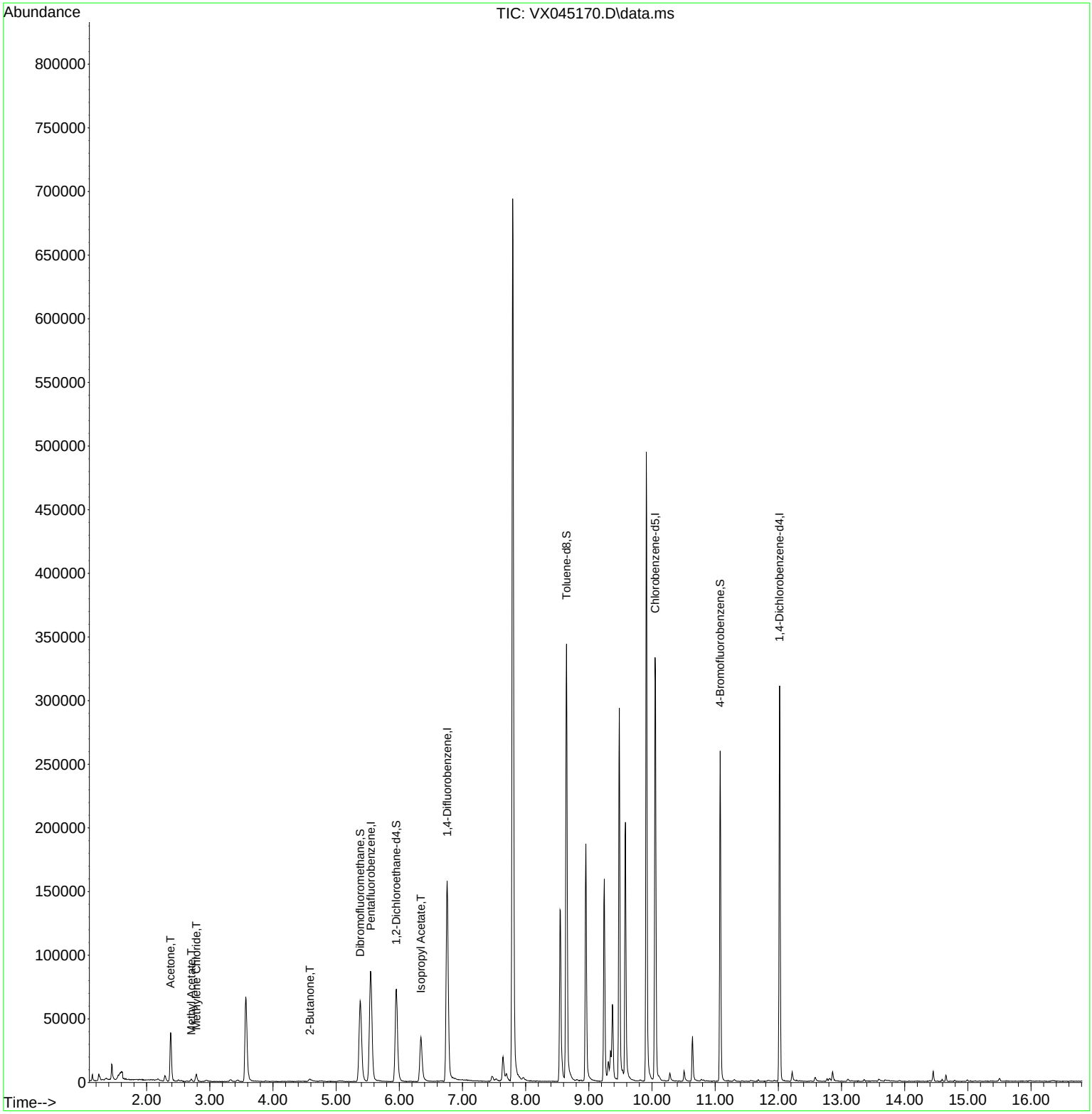
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	78735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160534	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146470	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68170	54.432	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.860%			
35) Dibromofluoromethane	5.379	113	55628	51.822	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.640%			
50) Toluene-d8	8.647	98	201436	51.761	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.520%			
62) 4-Bromofluorobenzene	11.079	95	67095	52.029	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.060%			
Target Compounds						Qvalue
16) Acetone	2.380	43	41771	71.886	ug/l	100
18) Methyl Acetate	2.709	43	2222	1.590	ug/l	97
20) Methylene Chloride	2.788	84	2646	2.299	ug/l	89
25) 2-Butanone	4.587	43	4567	5.221	ug/l	97
43) Isopropyl Acetate	6.342	43	50668	18.063	ug/l	98

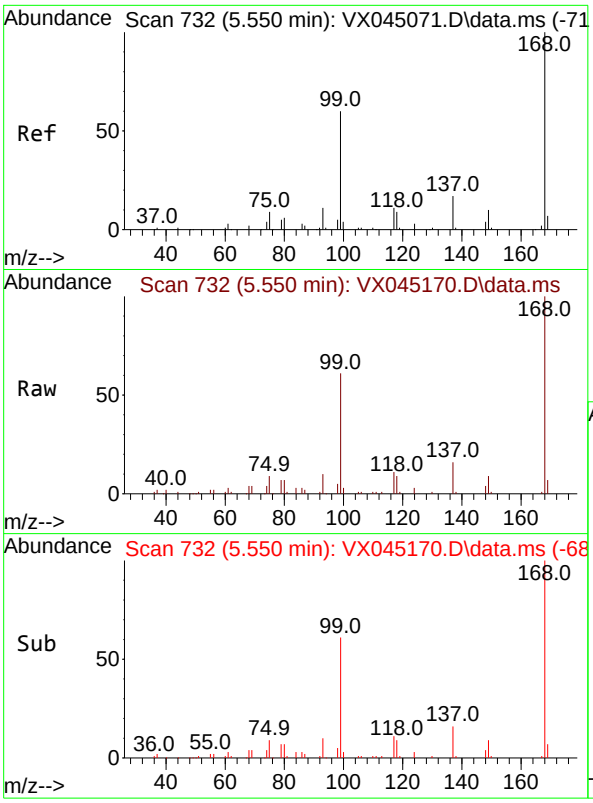
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045170.D
Acq On : 06 Mar 2025 15:52
Operator : JC/MD
Sample : Q1488-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



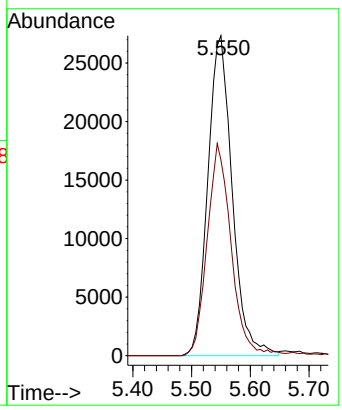


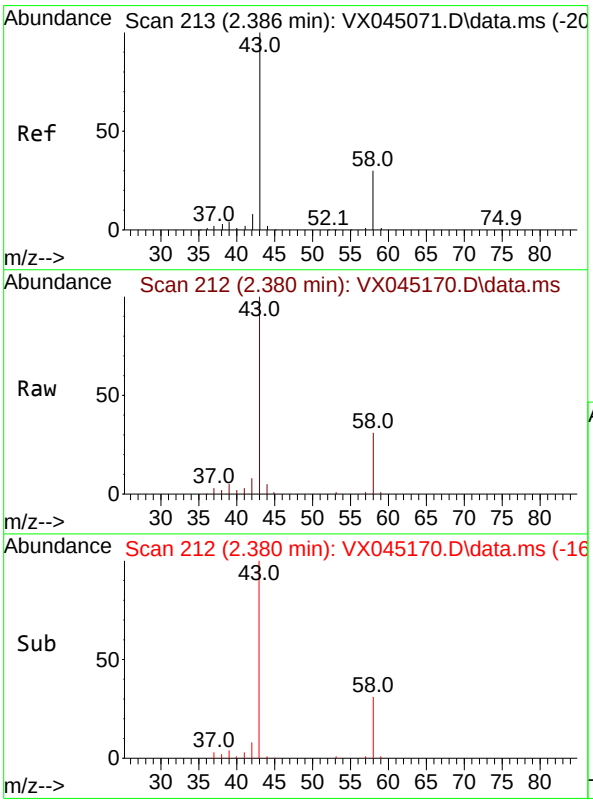
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion:168 Resp: 78735

Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.2	72.4

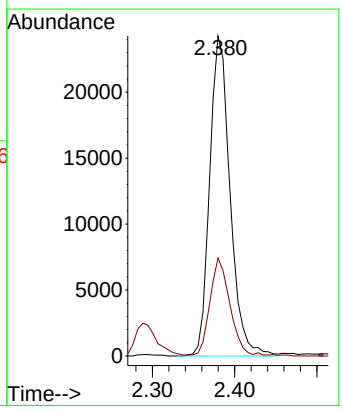


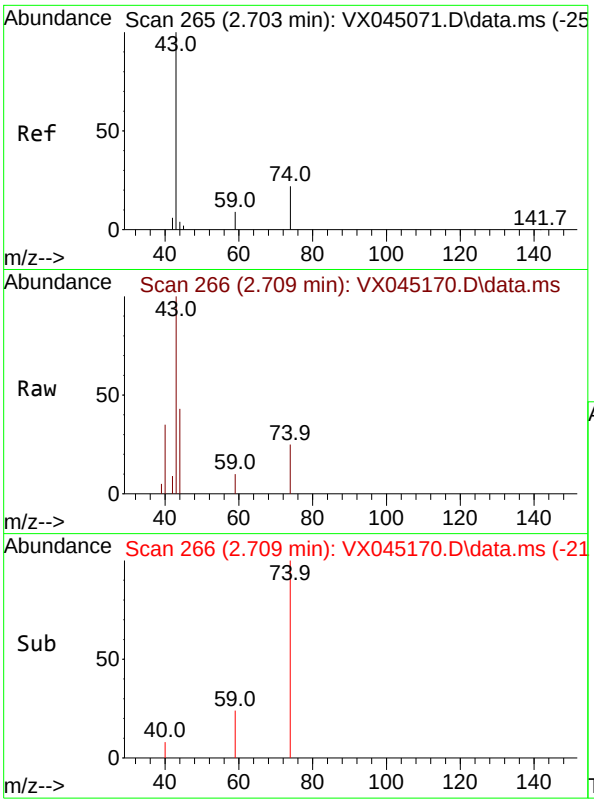


#16
Acetone
Concen: 71.886 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 43 Resp: 41771

Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.2	36.4



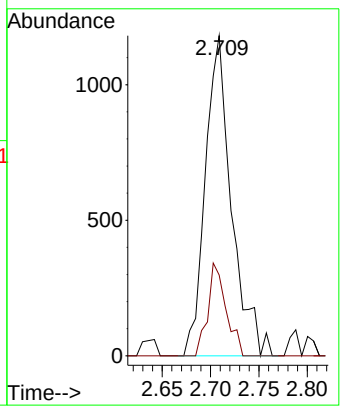


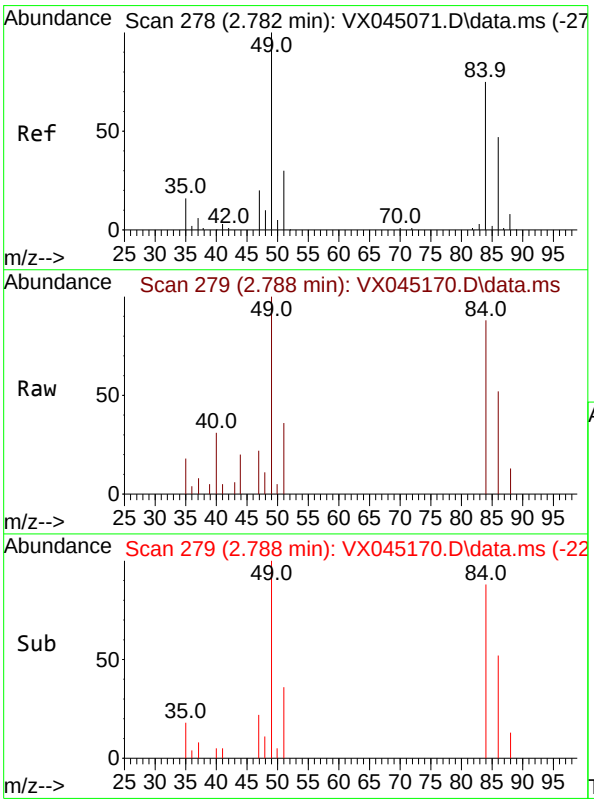
#18
Methyl Acetate
Concen: 1.590 ug/l
RT: 2.709 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion: 43 Resp: 2222

Ion	Ratio	Lower	Upper
43	100		
74	20.2	17.4	26.2

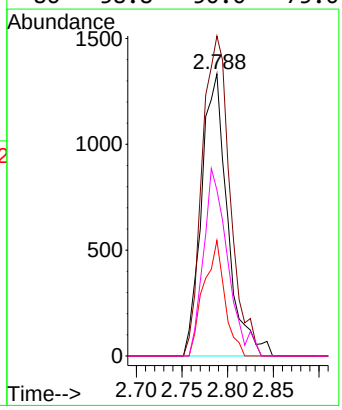


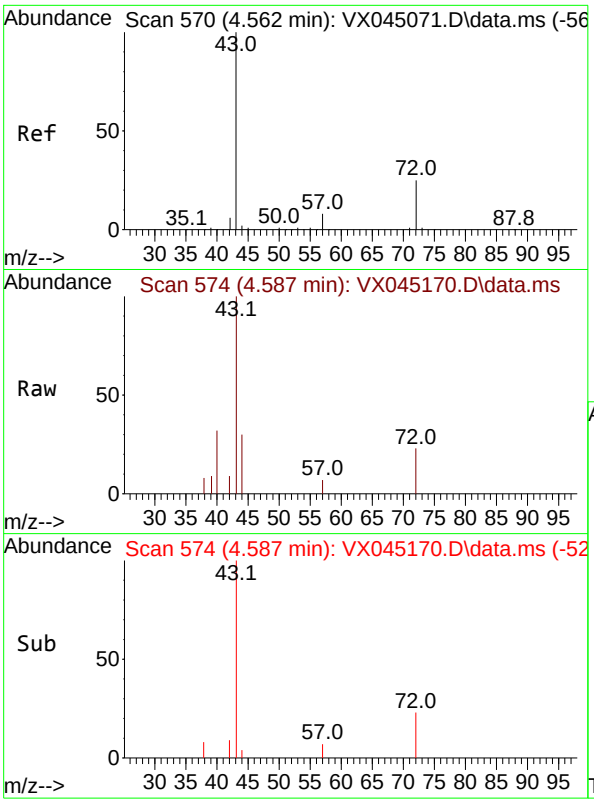


#20
Methylene Chloride
Concen: 2.299 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 84 Resp: 2646

Ion	Ratio	Lower	Upper
84	100		
49	113.4	106.5	159.7
51	41.0	32.1	48.1
86	58.8	50.0	75.0



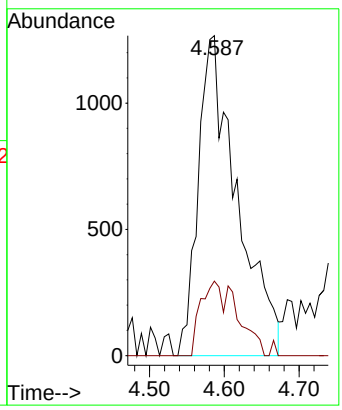


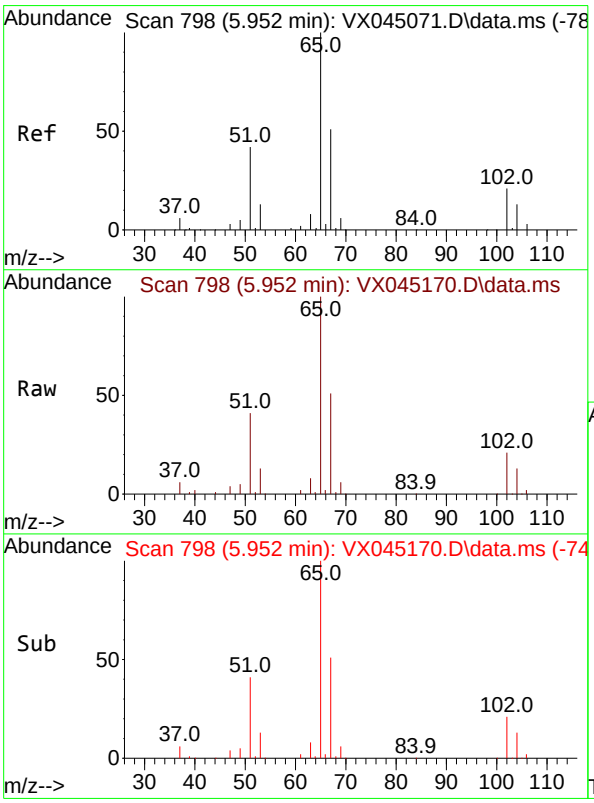
#25
2-Butanone
Concen: 5.221 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion: 43 Resp: 4567

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.0	30.0

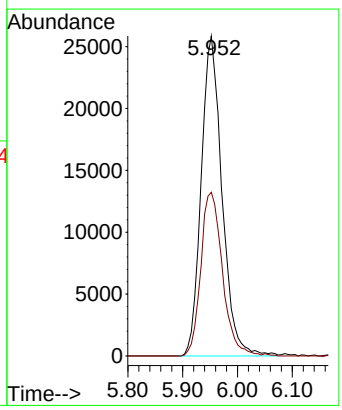


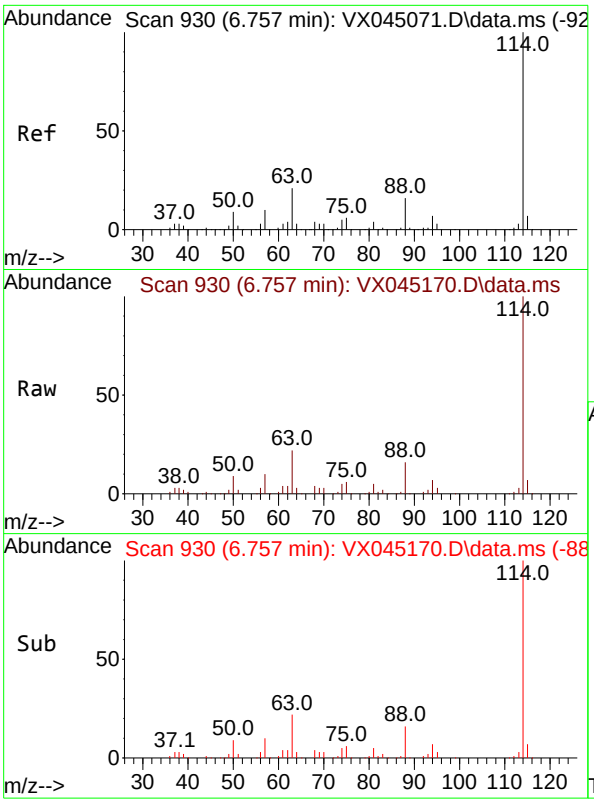


#33
1,2-Dichloroethane-d4
Concen: 54.432 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 65 Resp: 68170

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2



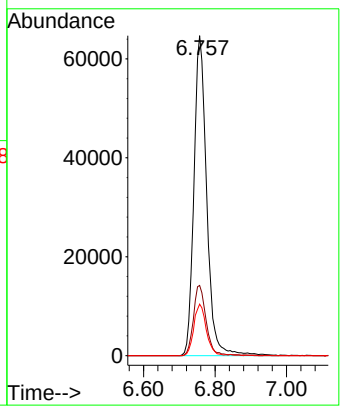


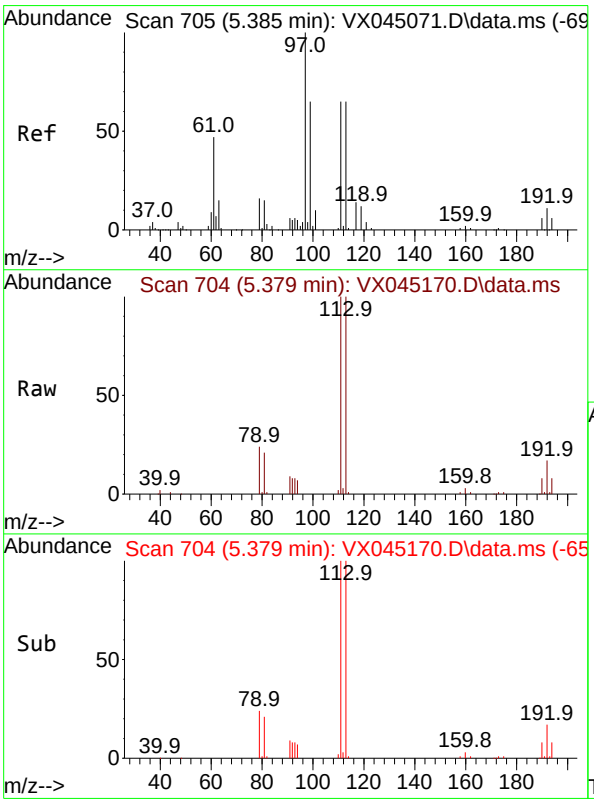
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion:114 Resp: 160534

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	41.8
88	16.1	0.0	32.8

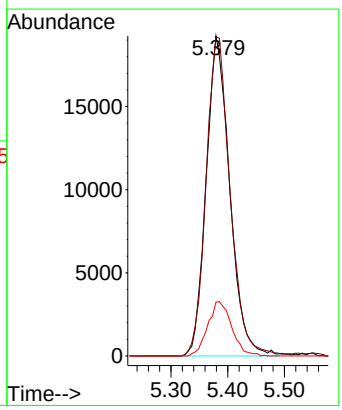


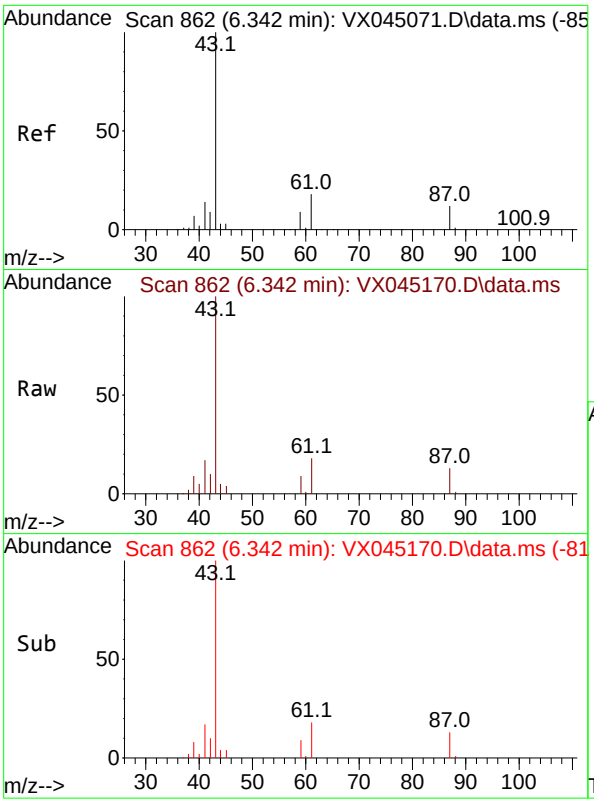


#35
Dibromofluoromethane
Concen: 51.822 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion:113 Resp: 55628

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.6
192	17.3	14.3	21.5



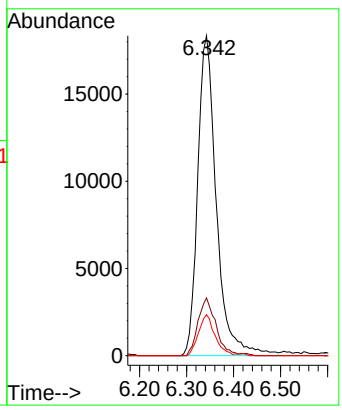


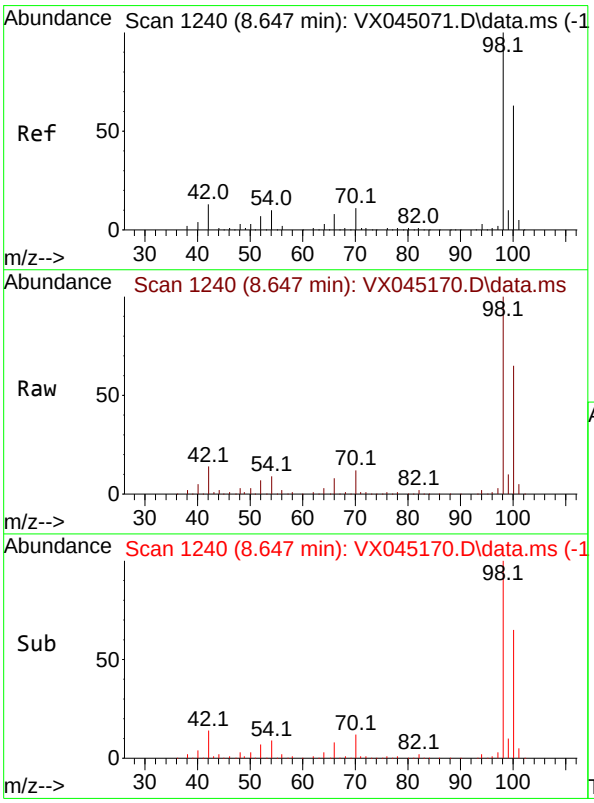
#43
Isopropyl Acetate
Concen: 18.063 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion: 43 Resp: 50668

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.3	9.4	14.2

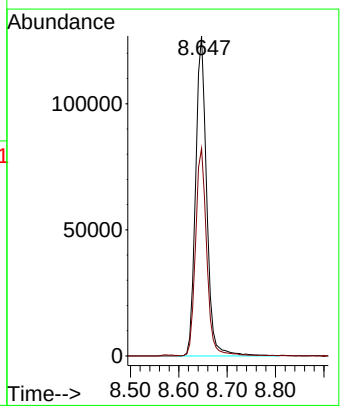


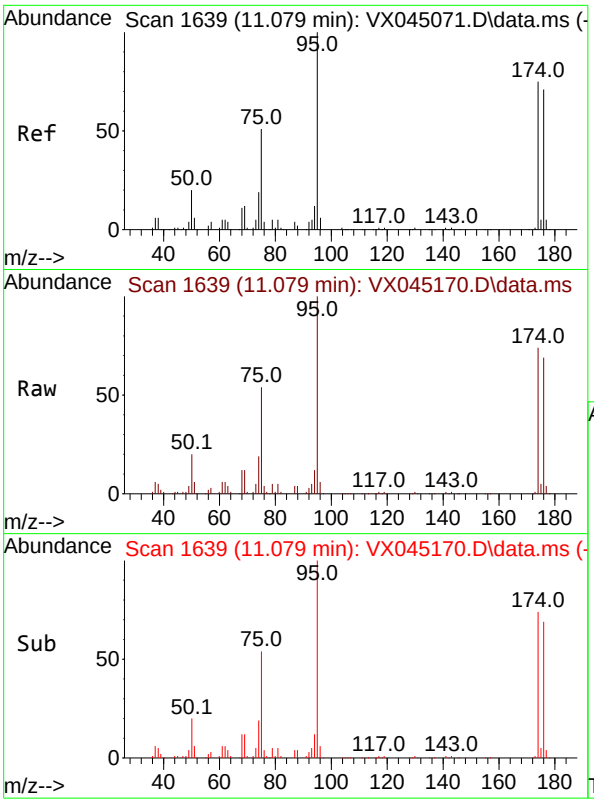


#50
Toluene-d8
Concen: 51.761 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 98 Resp: 201436

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0



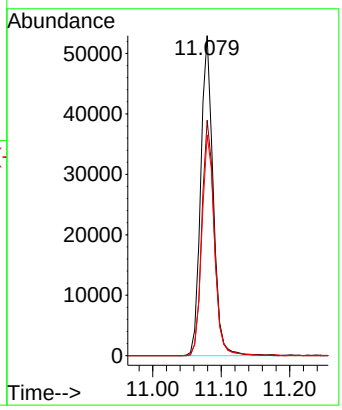


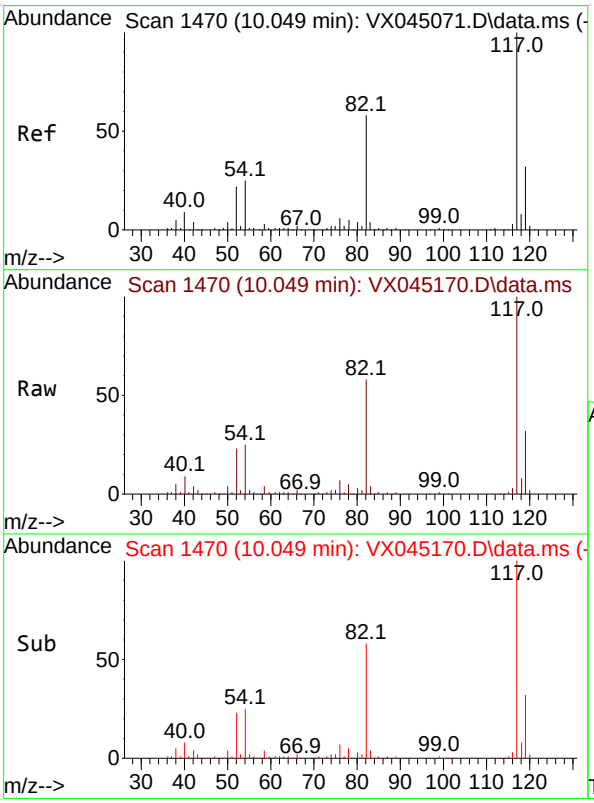
#62
4-Bromofluorobenzene
Concen: 52.029 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion: 95 Resp: 67095

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.2
176	70.0	0.0	141.4

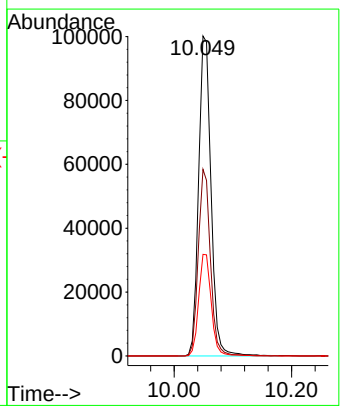


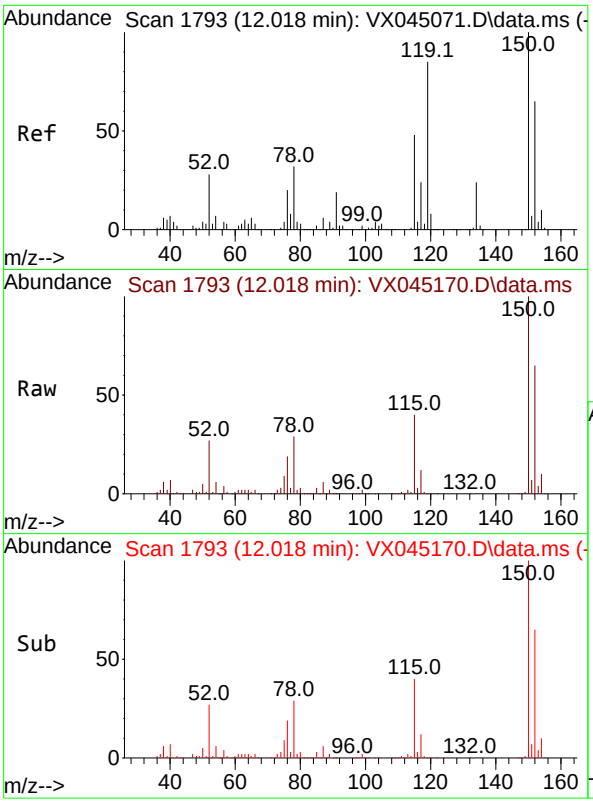


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion:117 Resp: 146470

Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.3	69.5
119	31.8	25.7	38.5



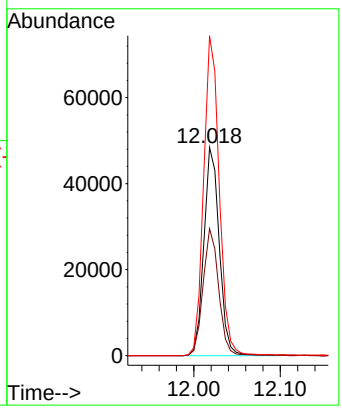


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Tgt Ion:152 Resp: 59867

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.2	132.6
150	156.2	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045171.D
Acq On : 06 Mar 2025 16:16
Operator : JC/MD
Sample : Q1488-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

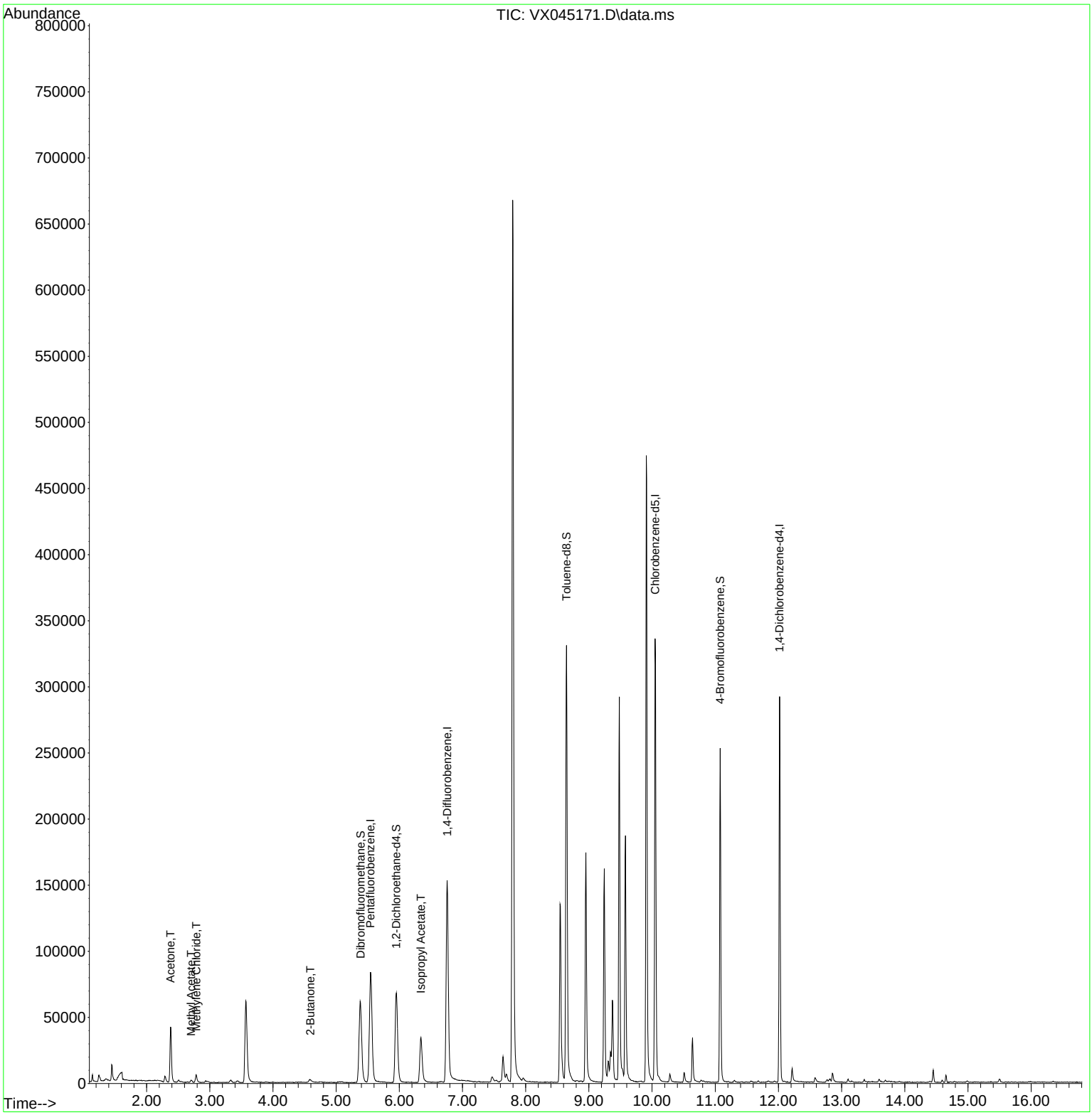
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	76620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153454	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66538	54.595	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.200%			
35) Dibromofluoromethane	5.385	113	53501	52.140	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.280%			
50) Toluene-d8	8.647	98	197961	53.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.440%			
62) 4-Bromofluorobenzene	11.079	95	64881	52.633	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.260%			
Target Compounds						Qvalue
16) Acetone	2.380	43	44531	78.751	ug/l	97
18) Methyl Acetate	2.703	43	2504	1.841	ug/l	99
20) Methylene Chloride	2.788	84	2398	2.141	ug/l	90
25) 2-Butanone	4.593	43	5173	6.078	ug/l #	88
43) Isopropyl Acetate	6.342	43	49863	18.597	ug/l	99

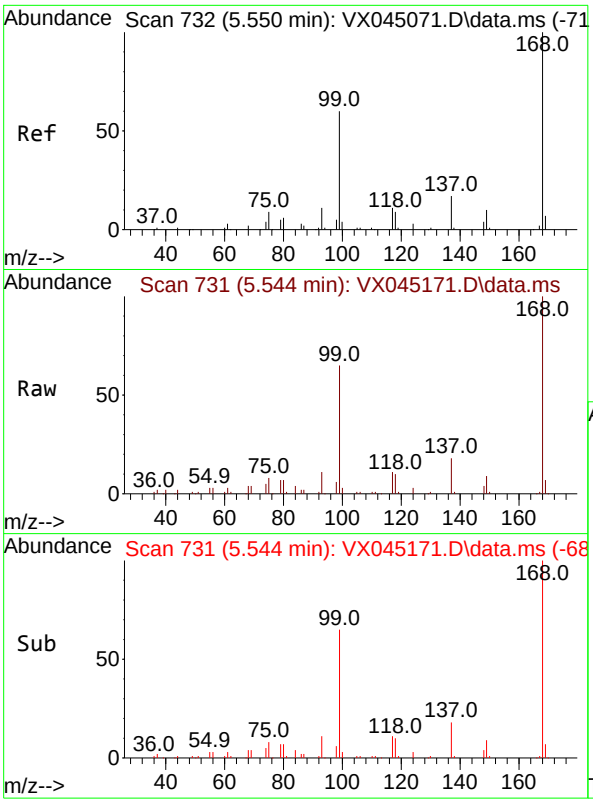
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045171.D
Acq On : 06 Mar 2025 16:16
Operator : JC/MD
Sample : Q1488-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



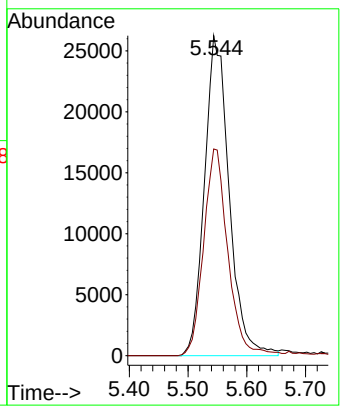


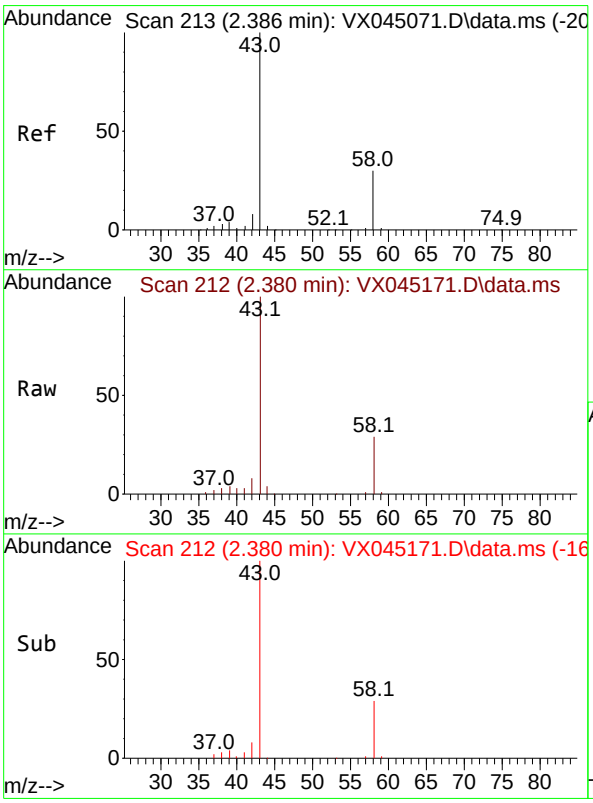
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion:168 Resp: 76620

Ion	Ratio	Lower	Upper
168	100		
99	64.6	48.2	72.4

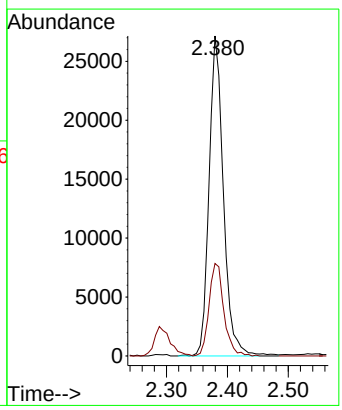


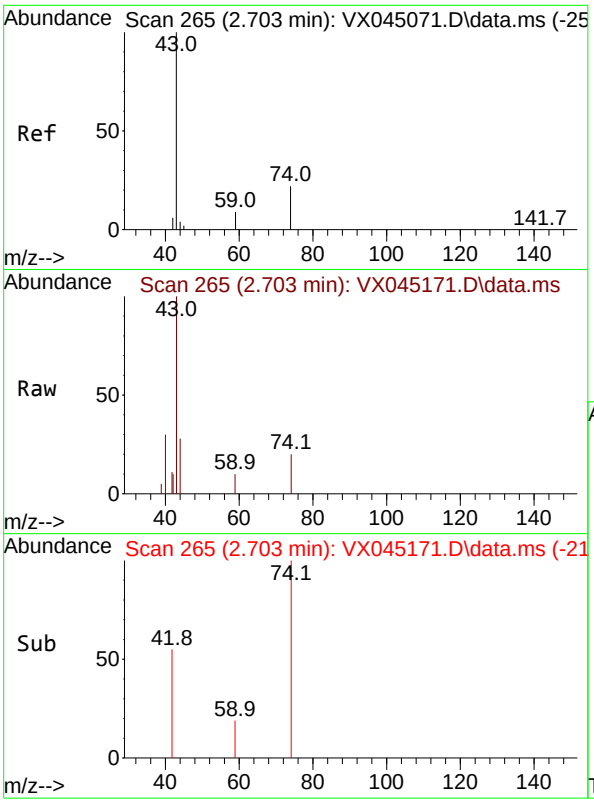


#16
Acetone
Concen: 78.751 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 43 Resp: 44531

Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.2	36.4



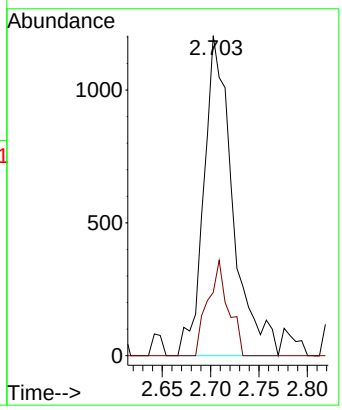


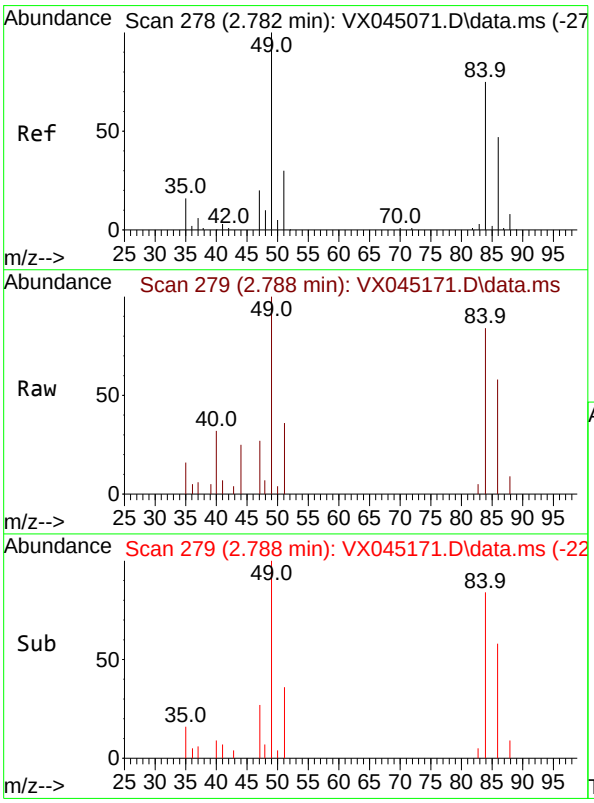
#18
Methyl Acetate
Concen: 1.841 ug/l
RT: 2.703 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion: 43 Resp: 2504

Ion	Ratio	Lower	Upper
43	100		
74	21.2	17.4	26.2

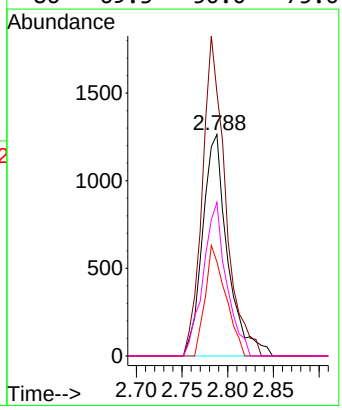


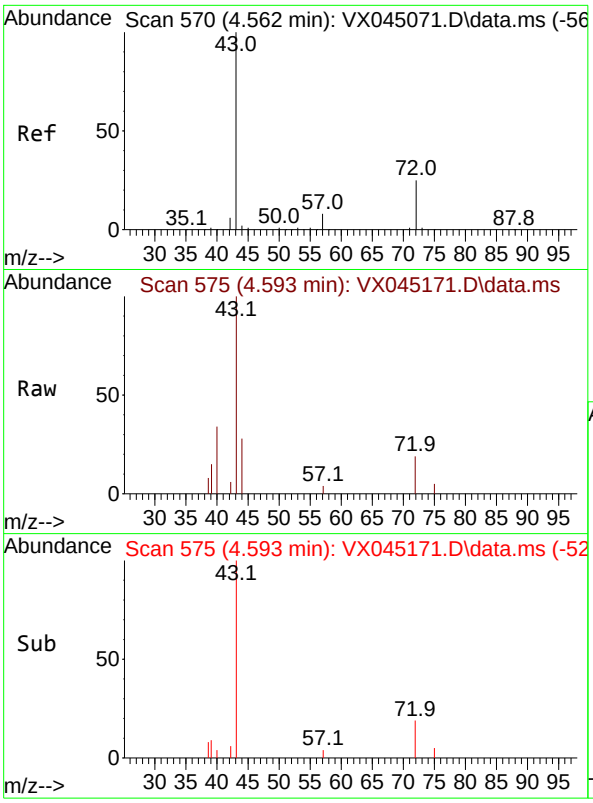


#20
Methylene Chloride
Concen: 2.141 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 84 Resp: 2398

Ion	Ratio	Lower	Upper
84	100		
49	118.9	106.5	159.7
51	42.6	32.1	48.1
86	69.3	50.0	75.0



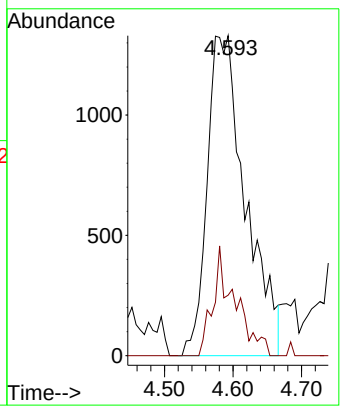


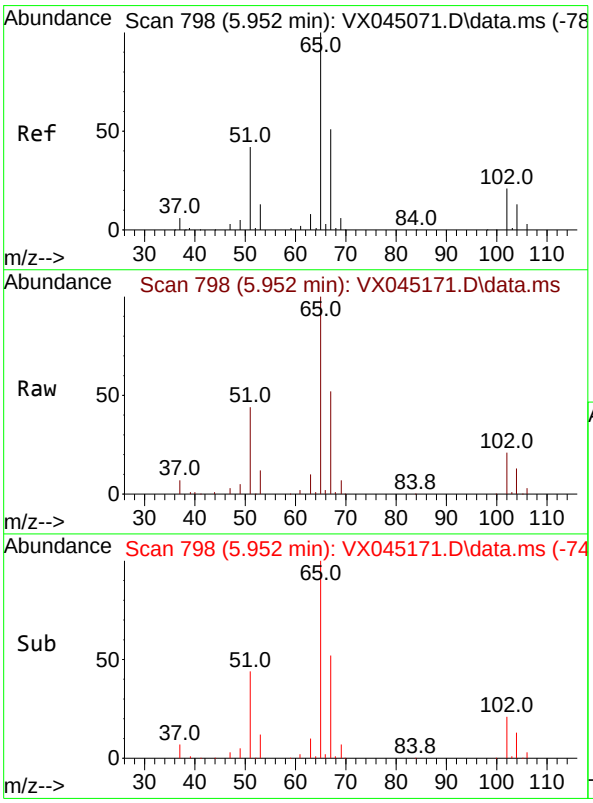
#25
2-Butanone
Concen: 6.078 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.030 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion: 43 Resp: 5173

Ion	Ratio	Lower	Upper
43	100		
72	18.9	20.0	30.0#

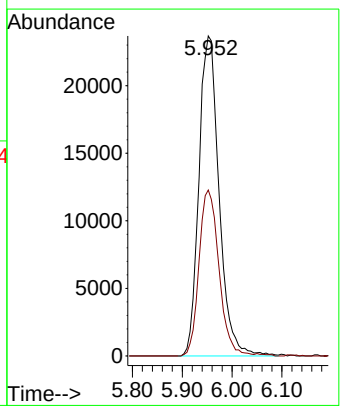


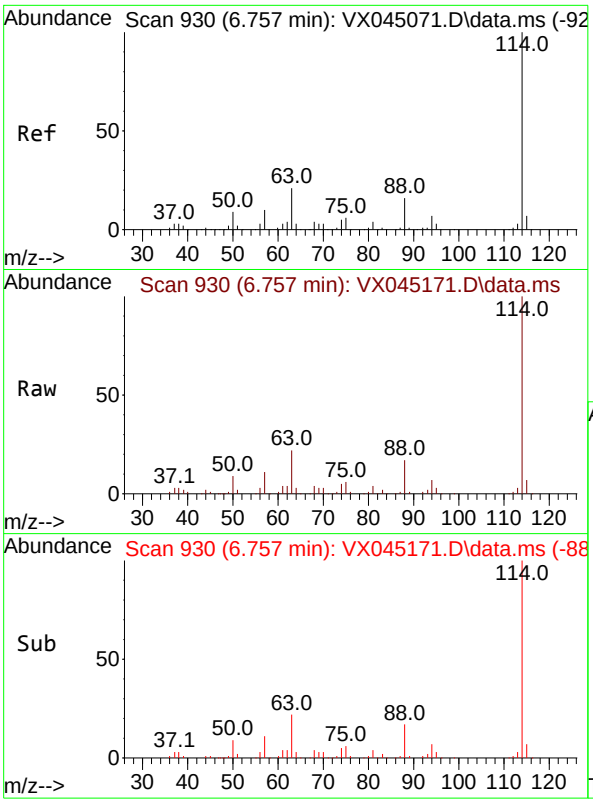


#33
1,2-Dichloroethane-d4
Concen: 54.595 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 65 Resp: 66538

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	106.2



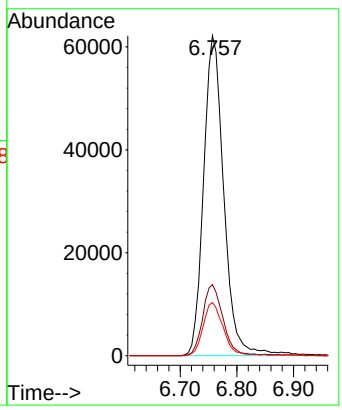


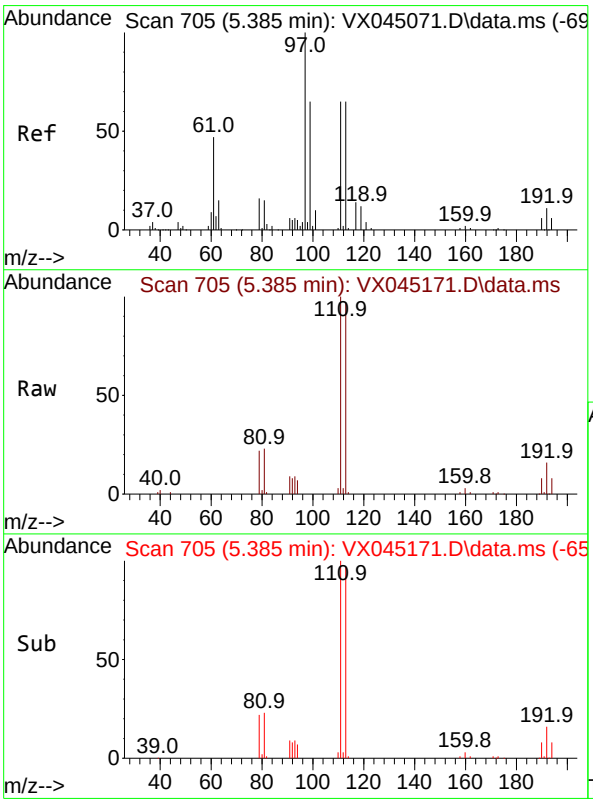
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion:114 Resp: 153454

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	41.8
88	16.6	0.0	32.8

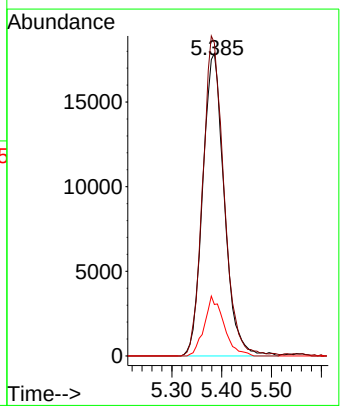


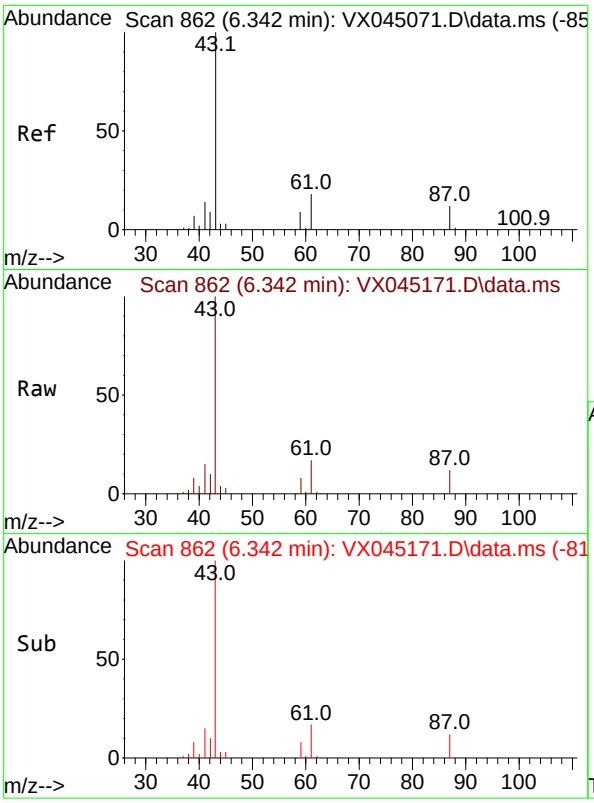


#35
Dibromofluoromethane
Concen: 52.140 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion:113 Resp: 53501

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	18.0	14.3	21.5



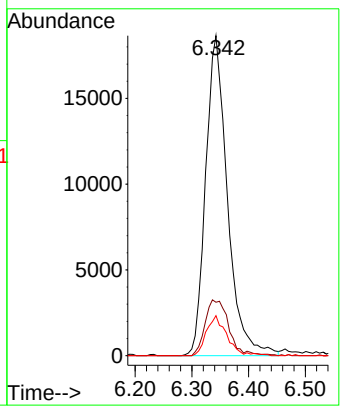


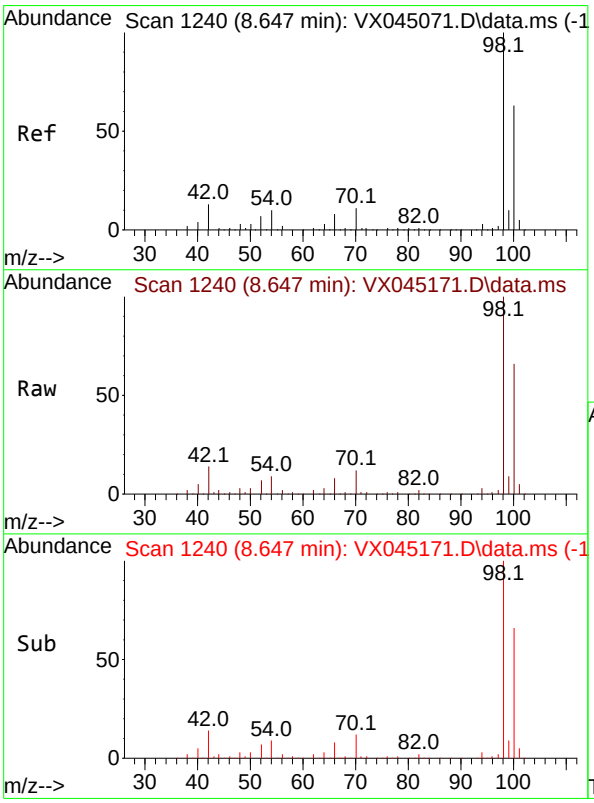
#43
Isopropyl Acetate
Concen: 18.597 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion: 43 Resp: 49863

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	11.8	9.4	14.2

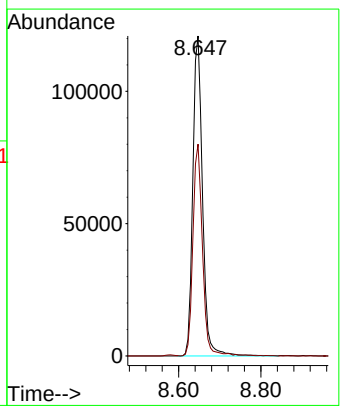


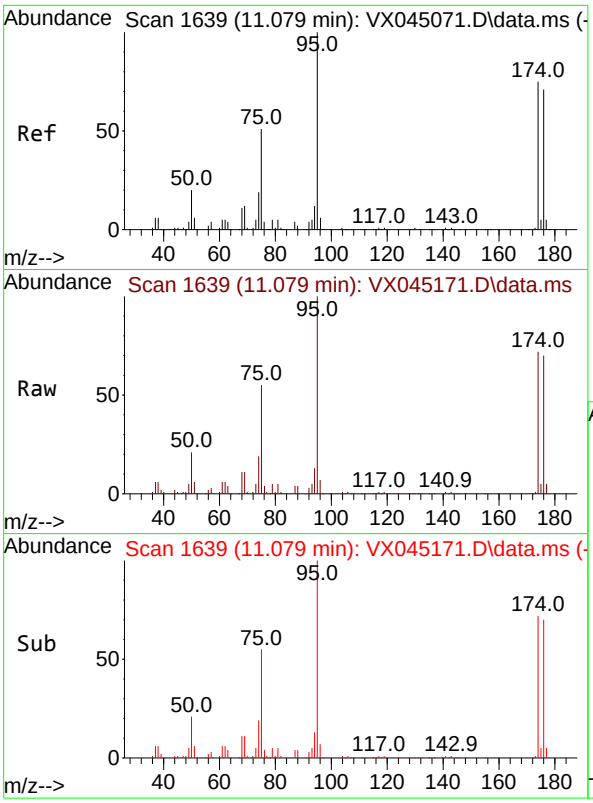


#50
Toluene-d8
Concen: 53.215 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 98 Resp: 197961

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0



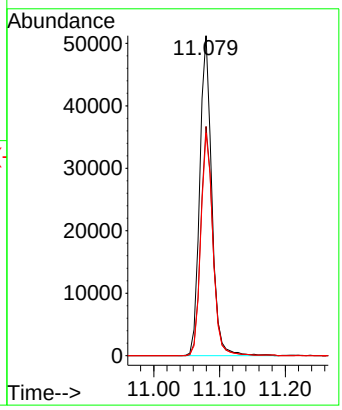


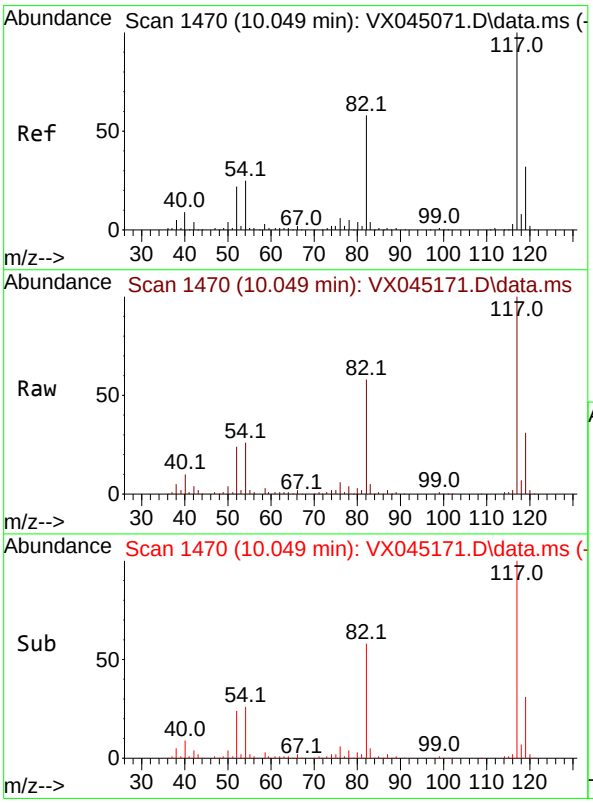
#62
4-Bromofluorobenzene
Concen: 52.633 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion: 95 Resp: 64881

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	148.2
176	70.0	0.0	141.4

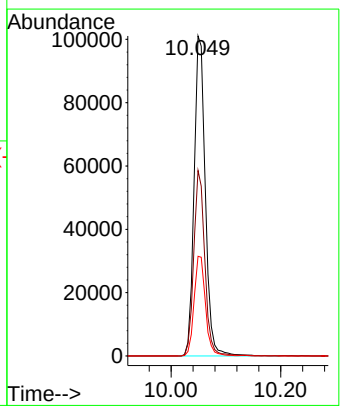


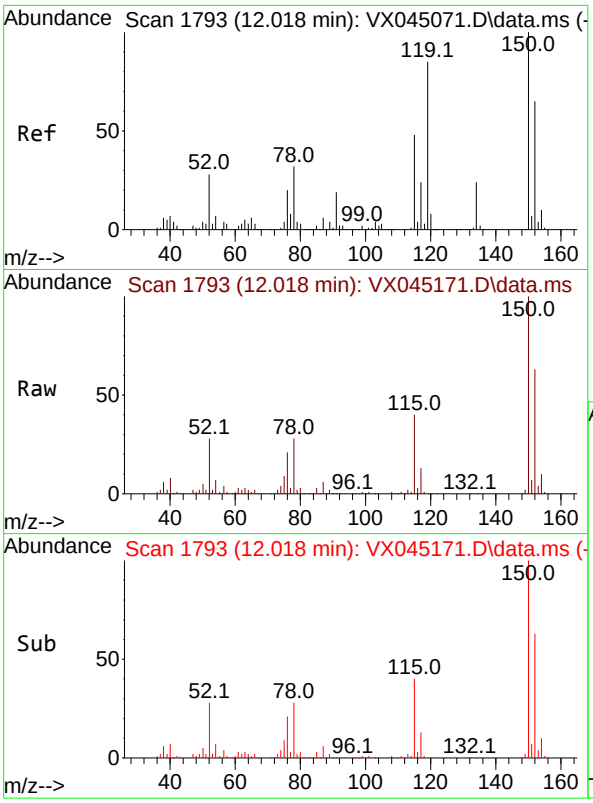


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion:117 Resp: 144581

Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.3	69.5
119	31.2	25.7	38.5



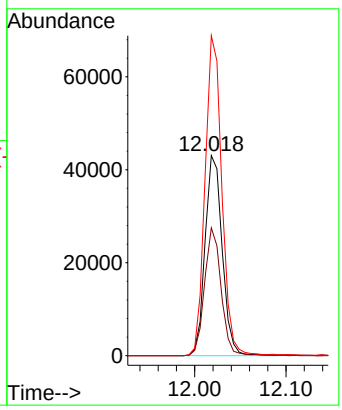


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion:152 Resp: 55987

Ion	Ratio	Lower	Upper
152	100		
115	61.4	44.2	132.6
150	156.3	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045172.D
Acq On : 06 Mar 2025 16:39
Operator : JC/MD
Sample : Q1488-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

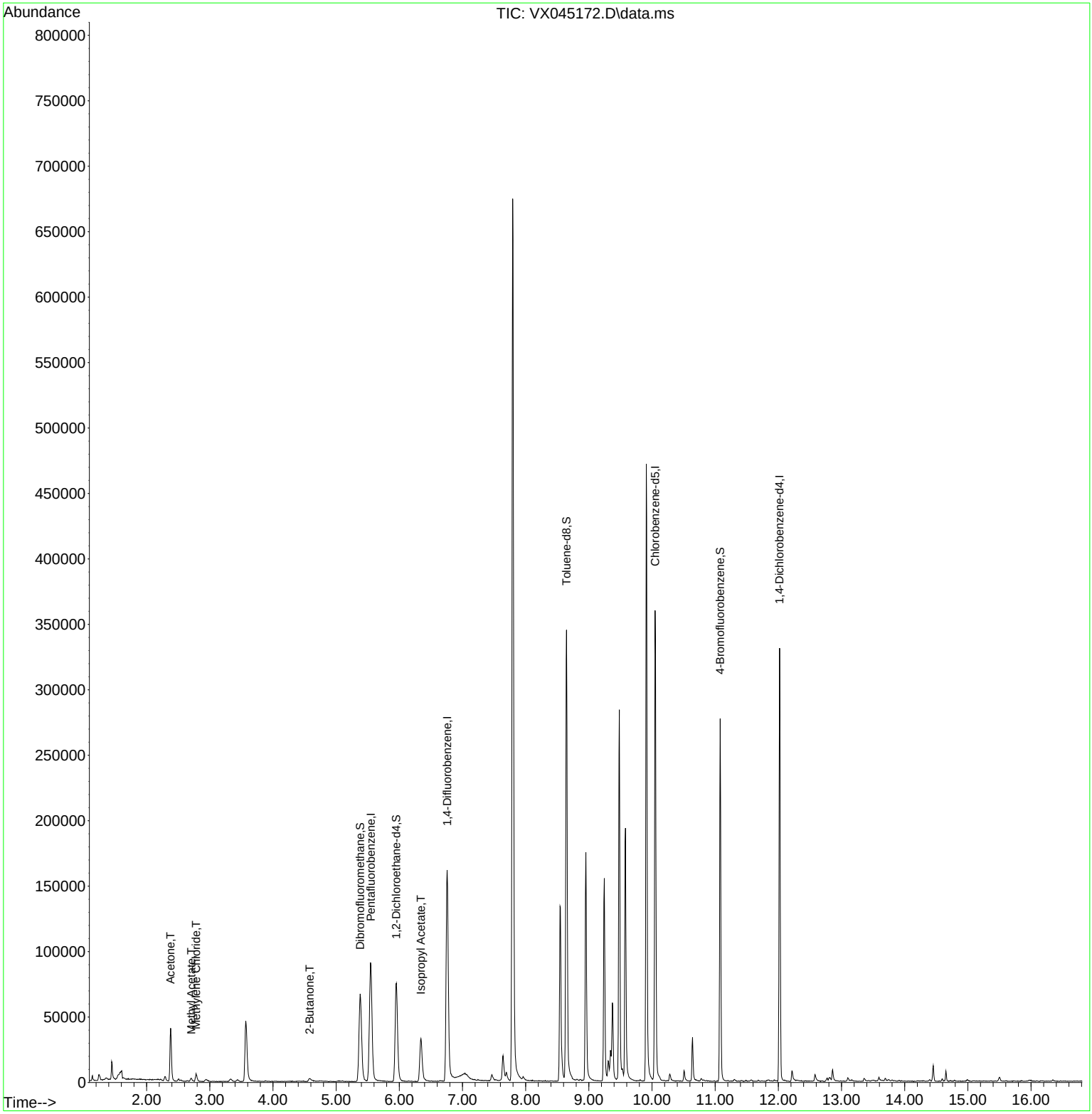
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	84608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167928	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72361	53.767	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.540%			
35) Dibromofluoromethane	5.379	113	57808	51.481	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.960%			
50) Toluene-d8	8.647	98	208160	51.134	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.260%			
62) 4-Bromofluorobenzene	11.079	95	70449	52.225	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.440%			
Target Compounds						Qvalue
16) Acetone	2.380	43	43675	69.945	ug/l	99
18) Methyl Acetate	2.709	43	3472	2.311	ug/l	99
20) Methylene Chloride	2.782	84	2563	2.072	ug/l #	90
25) 2-Butanone	4.581	43	5867	6.242	ug/l	93
43) Isopropyl Acetate	6.342	43	49551	16.887	ug/l	98

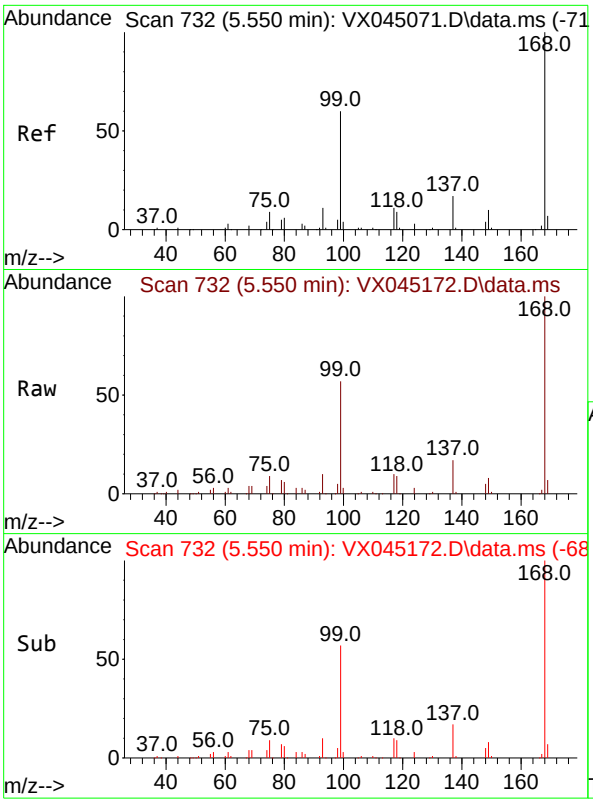
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045172.D
Acq On : 06 Mar 2025 16:39
Operator : JC/MD
Sample : Q1488-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



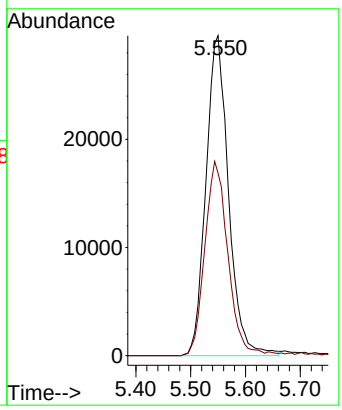


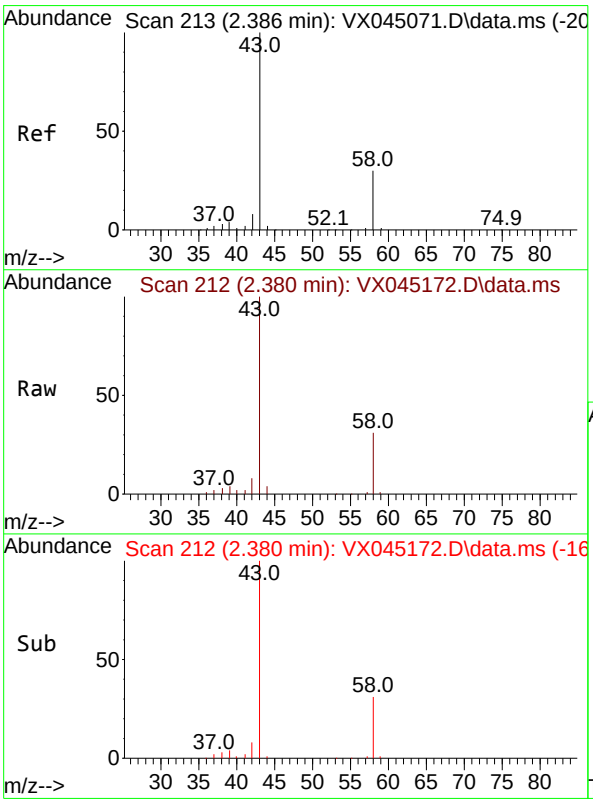
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion:168 Resp: 84608

Ion	Ratio	Lower	Upper
168	100		
99	57.0	48.2	72.4

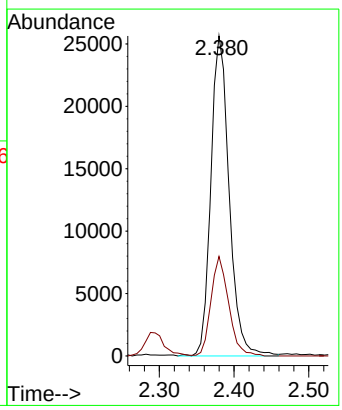


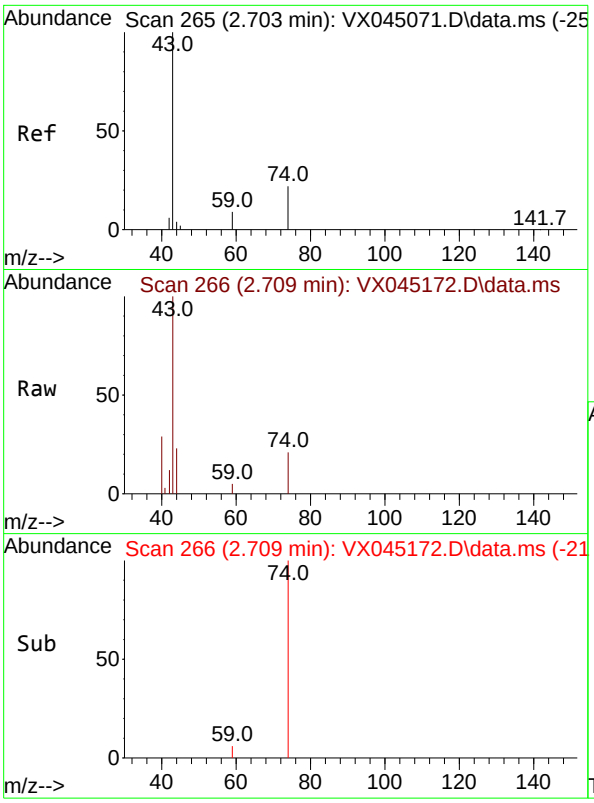


#16
Acetone
Concen: 69.945 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 43 Resp: 43675

Ion	Ratio	Lower	Upper
43	100		
58	31.1	24.2	36.4



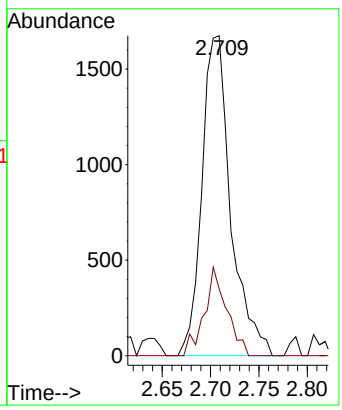


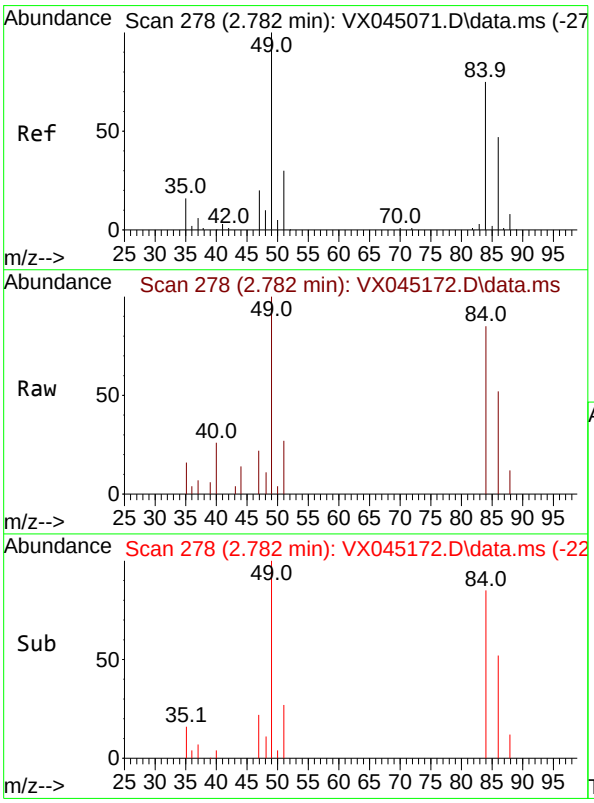
#18
Methyl Acetate
Concen: 2.311 ug/l
RT: 2.709 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion: 43 Resp: 3472

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.4	26.2

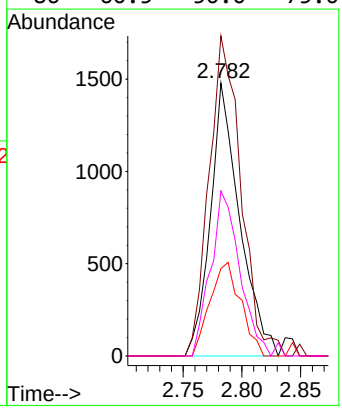


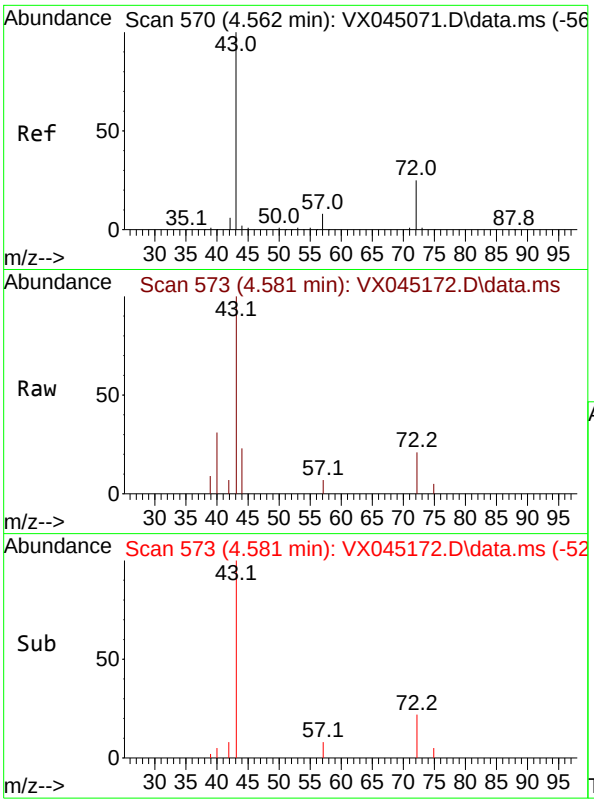


#20
Methylene Chloride
Concen: 2.072 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 84 Resp: 2563

Ion	Ratio	Lower	Upper
84	100		
49	117.3	106.5	159.7
51	32.0	32.1	48.1#
86	60.5	50.0	75.0



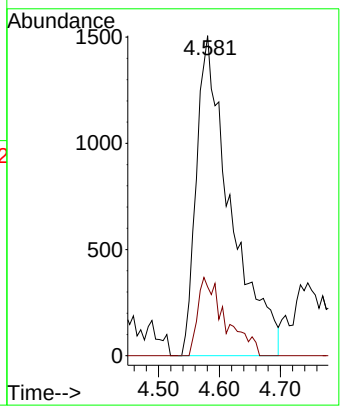


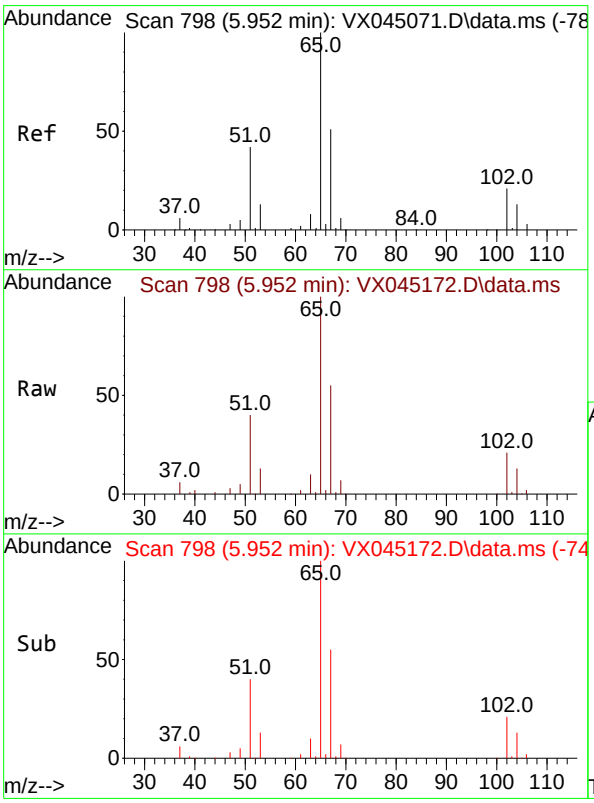
#25
2-Butanone
Concen: 6.242 ug/l
RT: 4.581 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion: 43 Resp: 5867

Ion	Ratio	Lower	Upper
43	100		
72	21.5	20.0	30.0

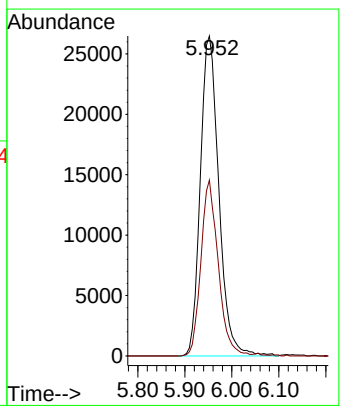


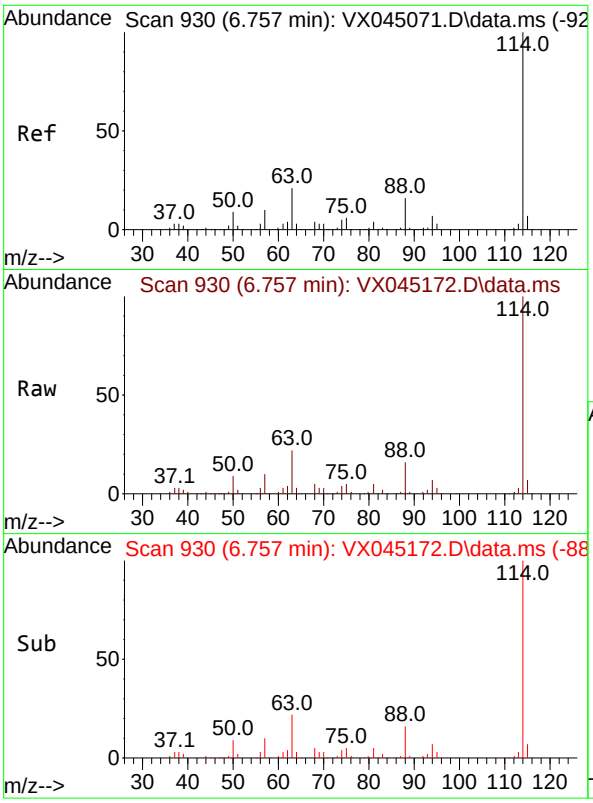


#33
1,2-Dichloroethane-d4
Concen: 53.767 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 65 Resp: 72361

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.2



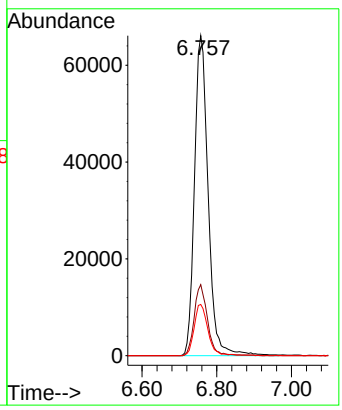


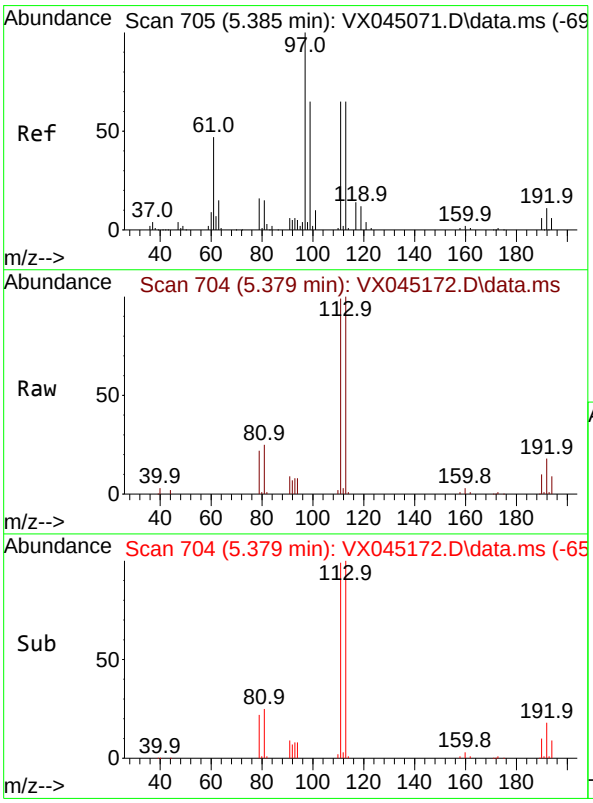
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion:114 Resp: 167928

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	41.8
88	16.0	0.0	32.8

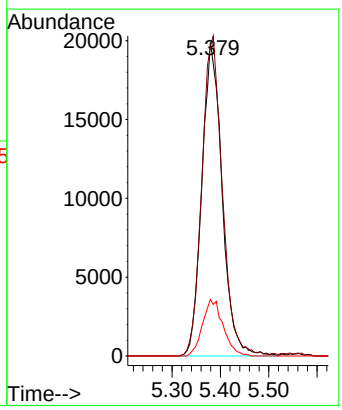


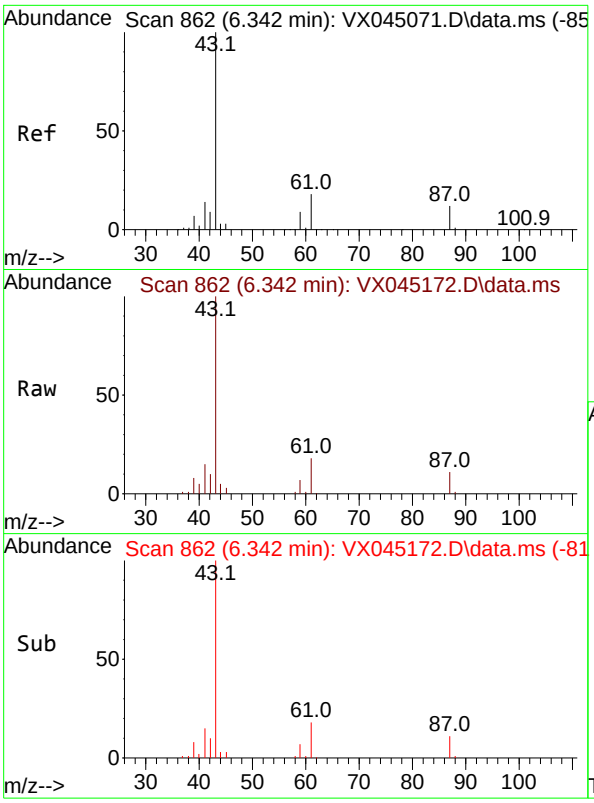


#35
Dibromofluoromethane
Concen: 51.481 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion:113 Resp: 57808

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.8	122.6
192	18.3	14.3	21.5



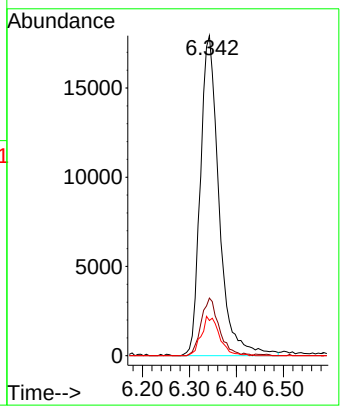


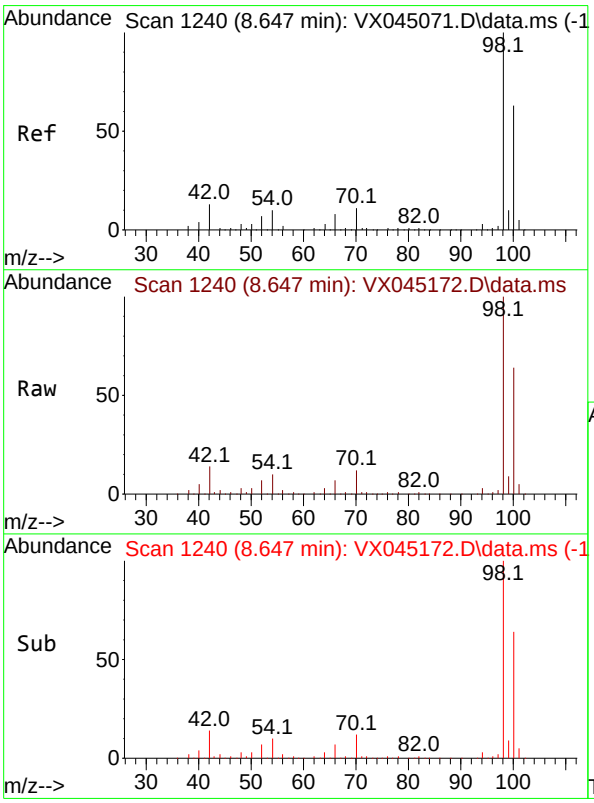
#43
Isopropyl Acetate
Concen: 16.887 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion: 43 Resp: 49551

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	11.9	9.4	14.2

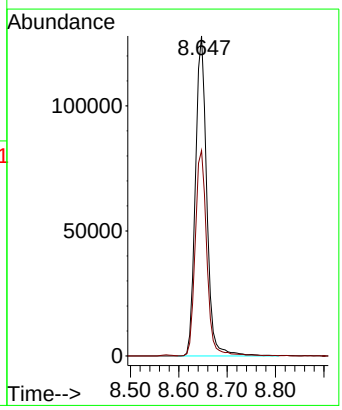


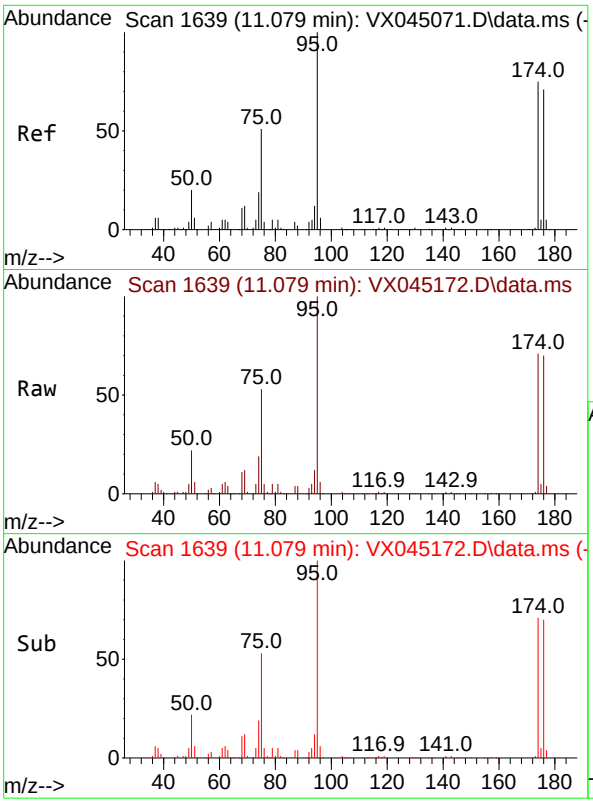


#50
Toluene-d8
Concen: 51.134 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 98 Resp: 208160

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0



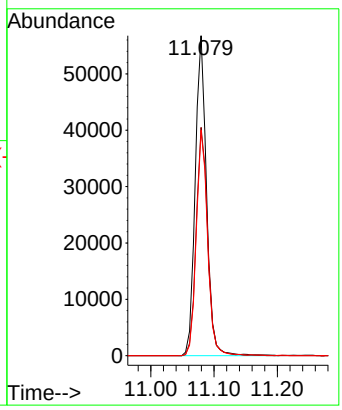


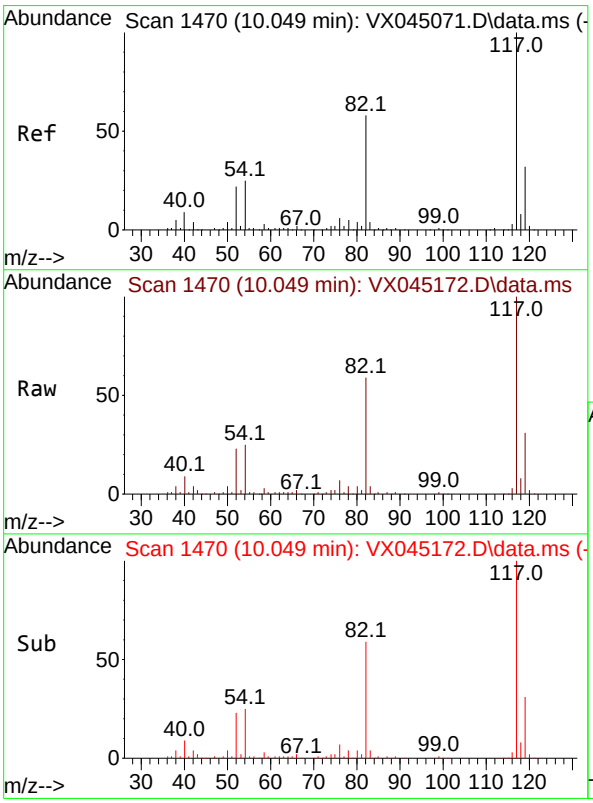
#62
4-Bromofluorobenzene
Concen: 52.225 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion: 95 Resp: 70449

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.2
176	70.5	0.0	141.4

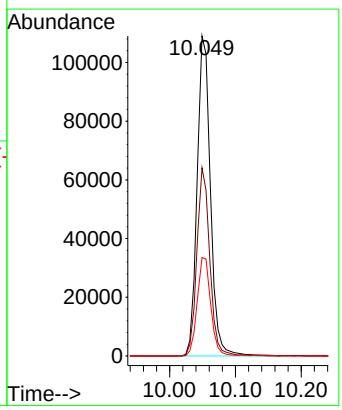


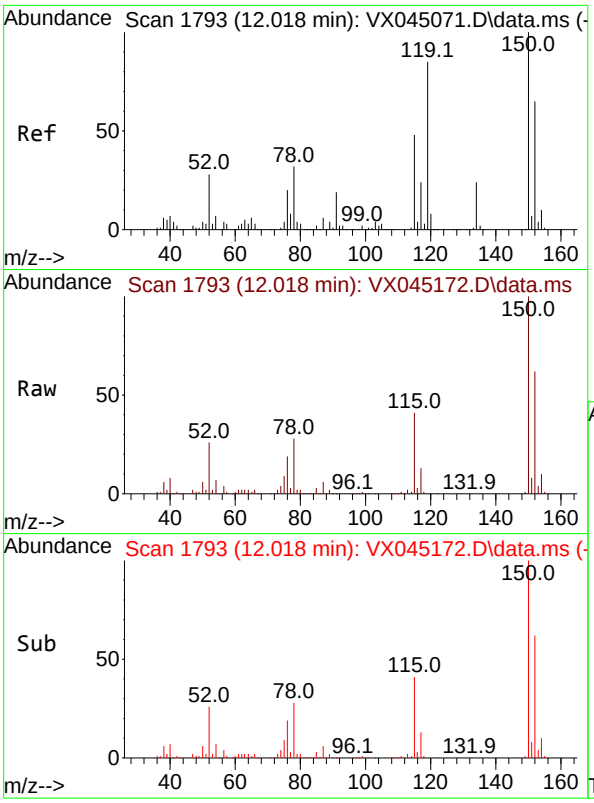


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion:117 Resp: 153445

Ion	Ratio	Lower	Upper
117	100		
82	58.8	46.3	69.5
119	30.7	25.7	38.5



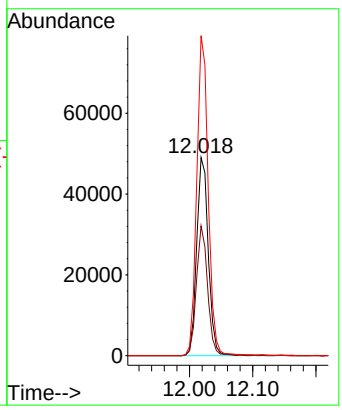


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Tgt Ion:152 Resp: 63036

Ion	Ratio	Lower	Upper
152	100		
115	62.8	44.2	132.6
150	158.2	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045173.D
Acq On : 06 Mar 2025 17:02
Operator : JC/MD
Sample : Q1488-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 07 00:47:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

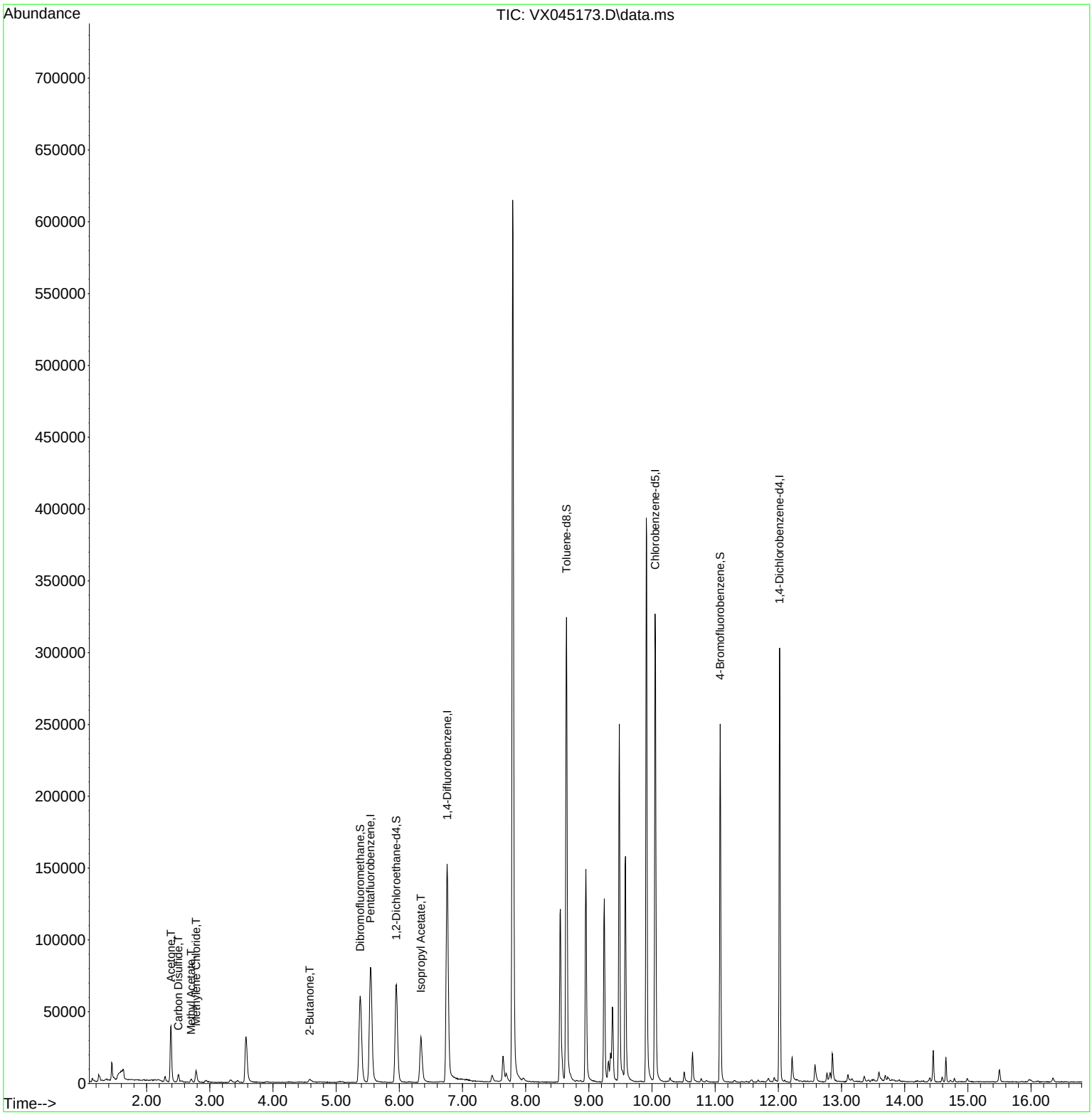
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	76581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156077	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	139915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65182	53.510	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.020%			
35) Dibromofluoromethane	5.379	113	53310	51.081	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.160%			
50) Toluene-d8	8.647	98	192112	50.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.560%			
62) 4-Bromofluorobenzene	11.079	95	63691	50.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.600%			
Target Compounds						Qvalue
16) Acetone	2.386	43	43224	76.479	ug/l	98
17) Carbon Disulfide	2.502	76	7102	2.834	ug/l	96
18) Methyl Acetate	2.703	43	2846	2.093	ug/l	93
20) Methylene Chloride	2.782	84	3846	3.435	ug/l #	89
25) 2-Butanone	4.581	43	4831	5.679	ug/l	99
43) Isopropyl Acetate	6.342	43	45924	16.840	ug/l	99

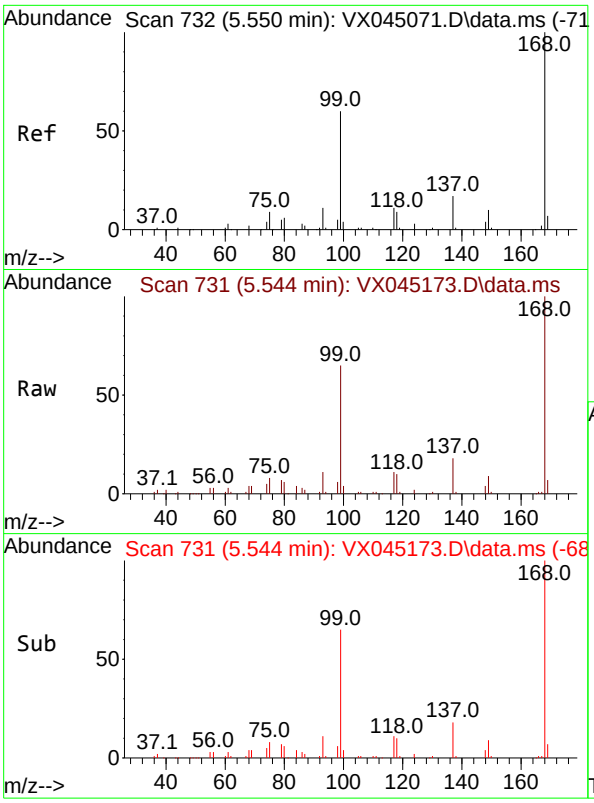
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045173.D
Acq On : 06 Mar 2025 17:02
Operator : JC/MD
Sample : Q1488-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 07 00:47:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



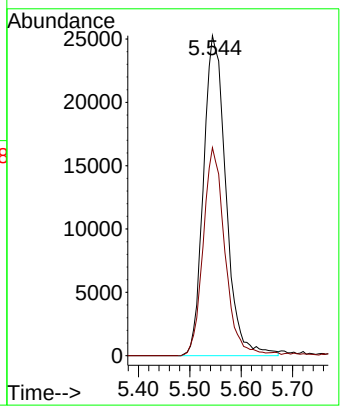


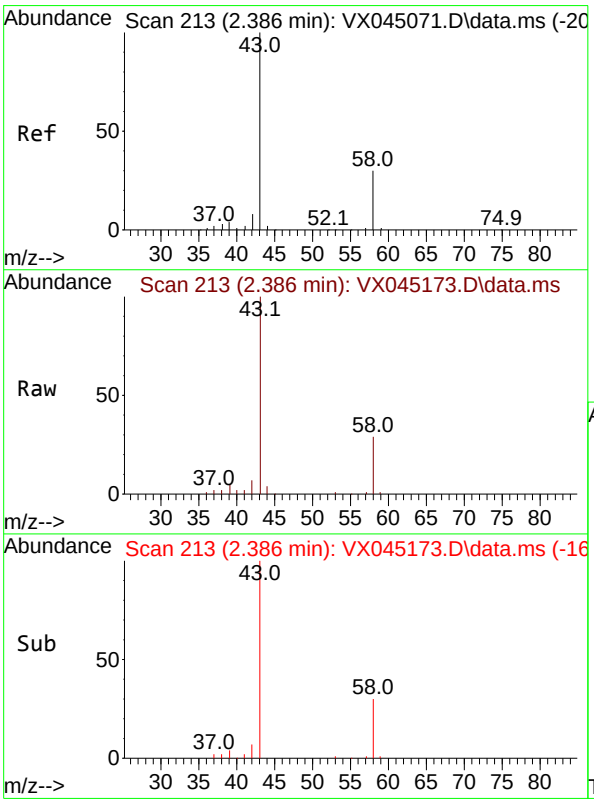
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion:168 Resp: 76581

Ion	Ratio	Lower	Upper
168	100		
99	65.0	48.2	72.4

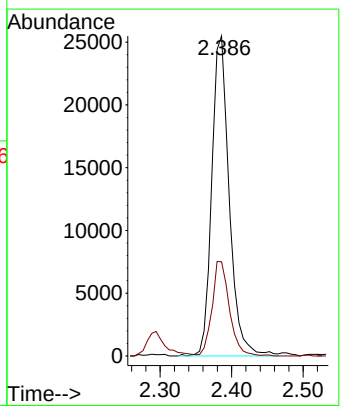


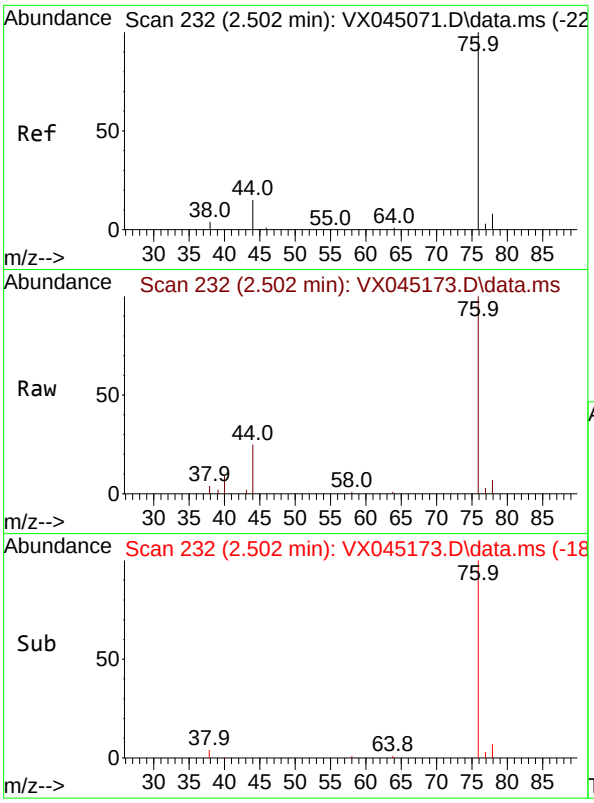


#16
Acetone
Concen: 76.479 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 43224

Ion	Ratio	Lower	Upper
43	100		
58	29.5	24.2	36.4



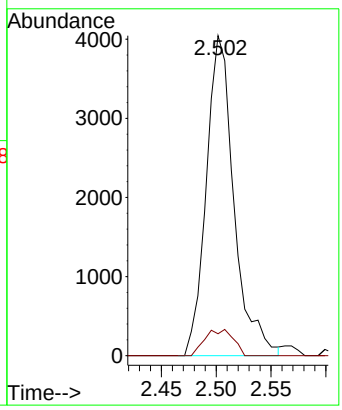


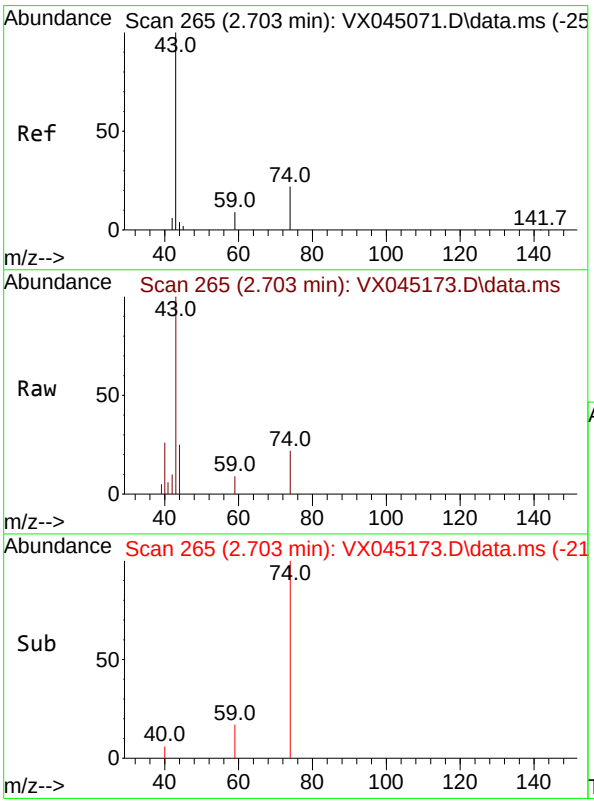
#17
Carbon Disulfide
Concen: 2.834 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion: 76 Resp: 7102

Ion	Ratio	Lower	Upper
76	100		
78	6.8	6.6	9.8

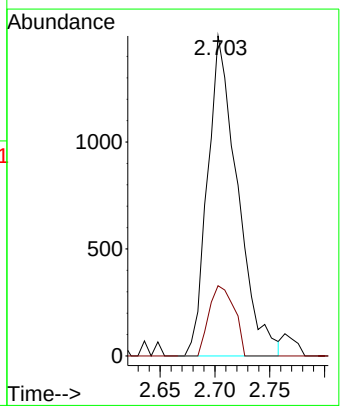


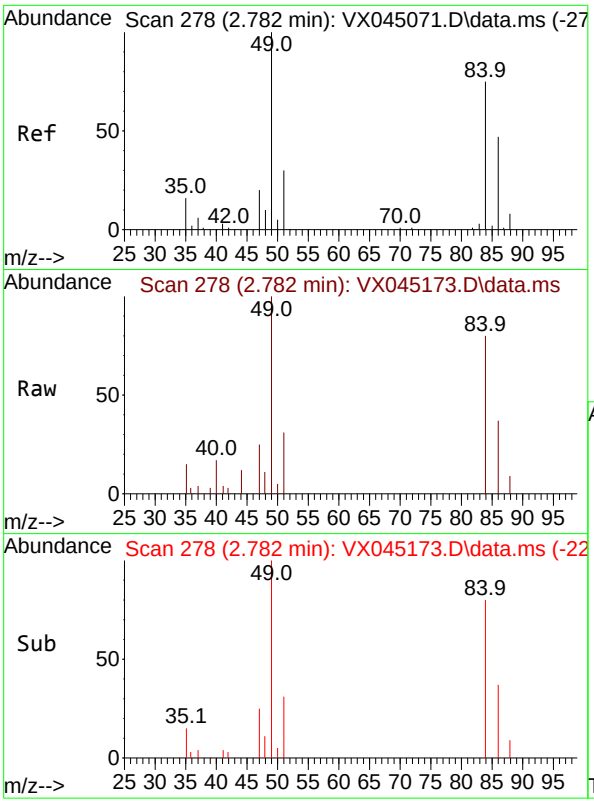


#18
Methyl Acetate
Concen: 2.093 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 2846

Ion	Ratio	Lower	Upper
43	100		
74	18.4	17.4	26.2



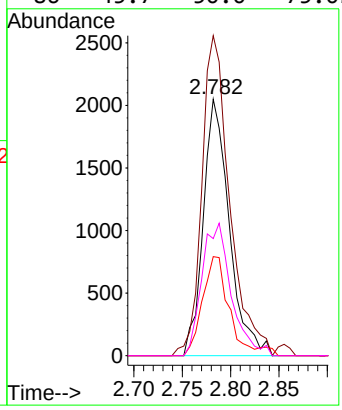


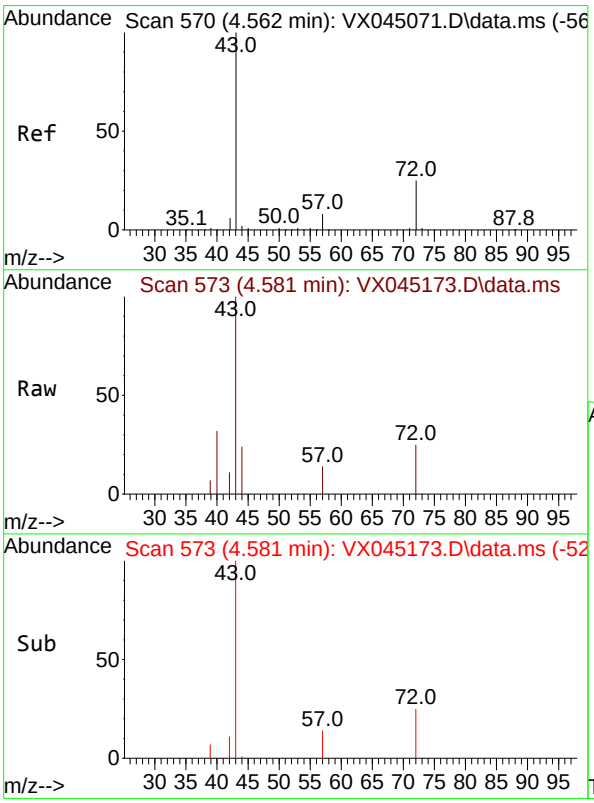
#20
Methylene Chloride
Concen: 3.435 ug/l
RT: 2.782 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion: 84 Resp: 3846

Ion	Ratio	Lower	Upper
84	100		
49	122.0	106.5	159.7
51	38.6	32.1	48.1
86	45.7	50.0	75.0#

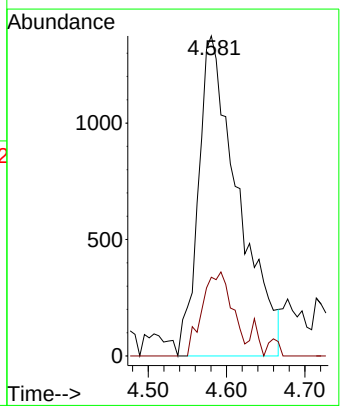


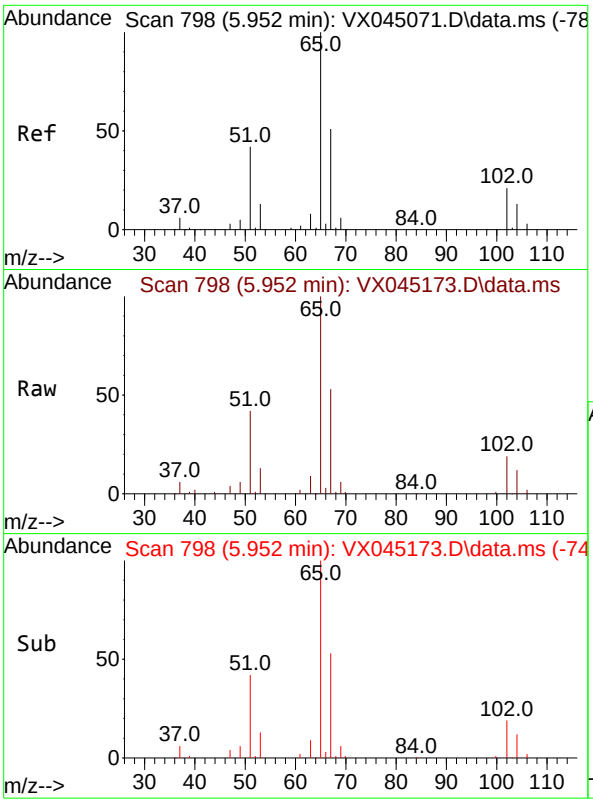


#25
2-Butanone
Concen: 5.679 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.018 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 4831

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.0	30.0



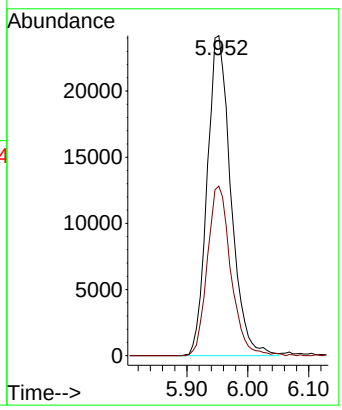


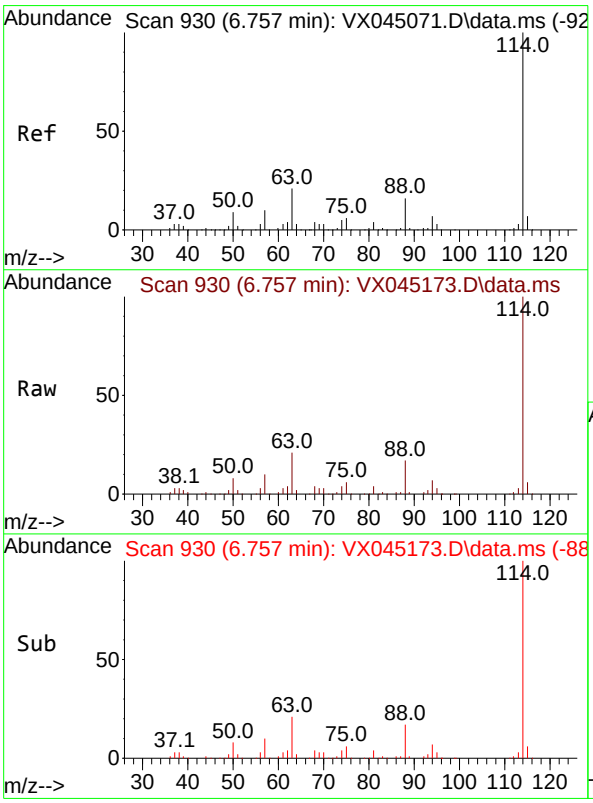
#33
1,2-Dichloroethane-d4
Concen: 53.510 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion: 65 Resp: 65182

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.2

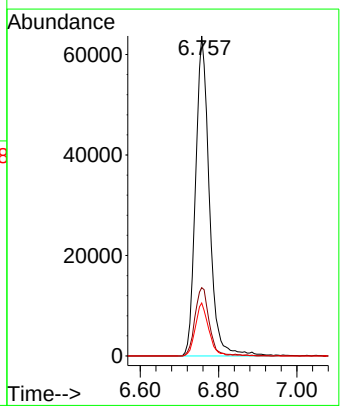


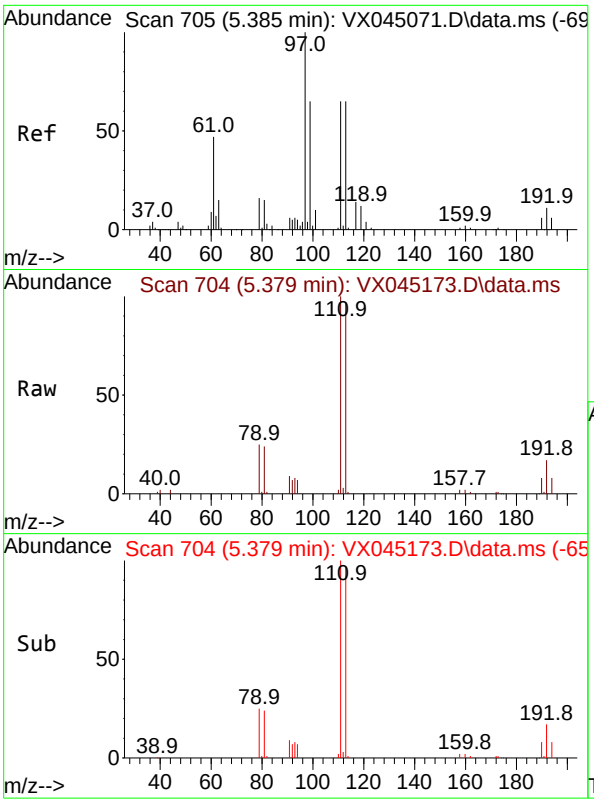


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion:114 Resp: 156077

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	41.8
88	16.5	0.0	32.8



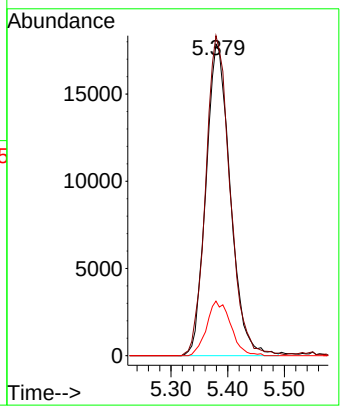


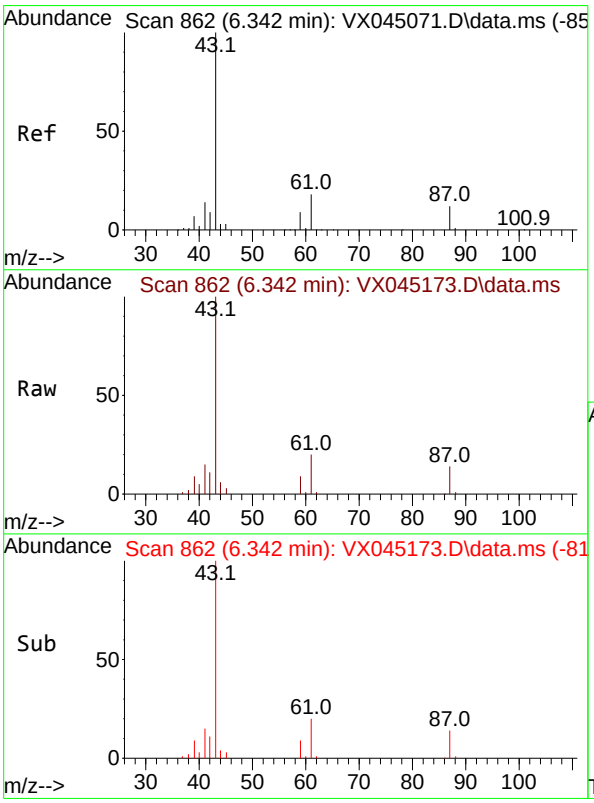
#35
Dibromofluoromethane
Concen: 51.081 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion:113 Resp: 53310

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	17.3	14.3	21.5

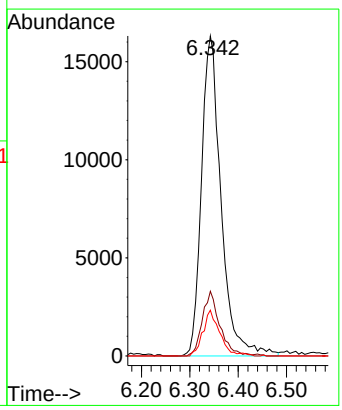


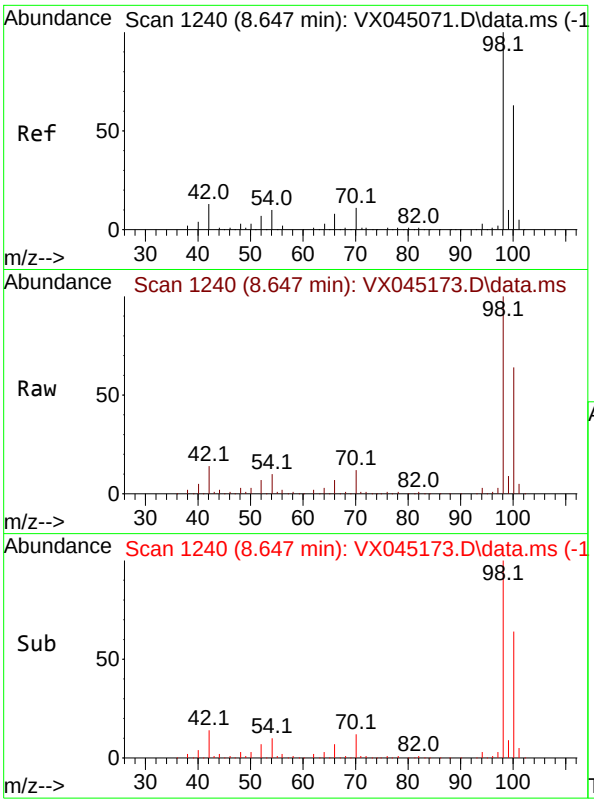


#43
Isopropyl Acetate
Concen: 16.840 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 45924

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.9	22.3
87	12.4	9.4	14.2



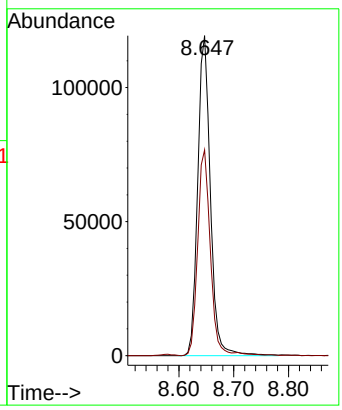


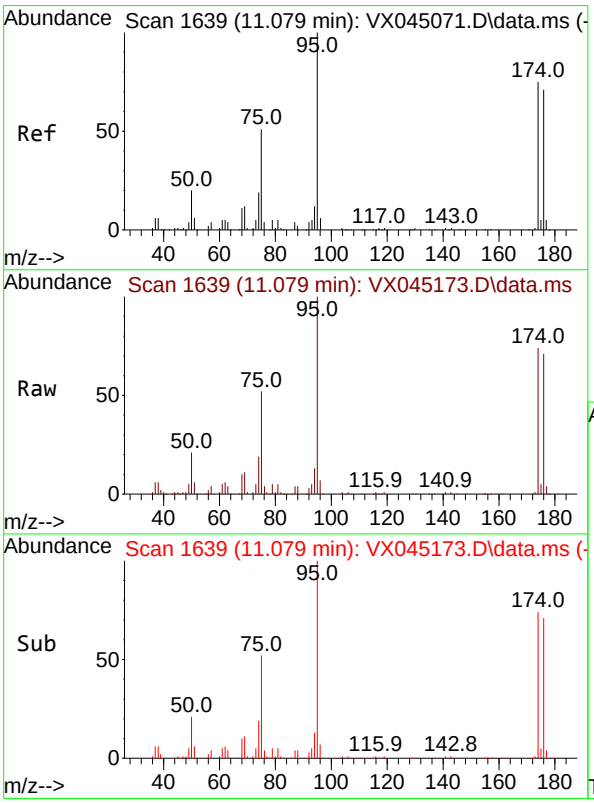
#50
Toluene-d8
Concen: 50.775 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion: 98 Resp: 192112

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0

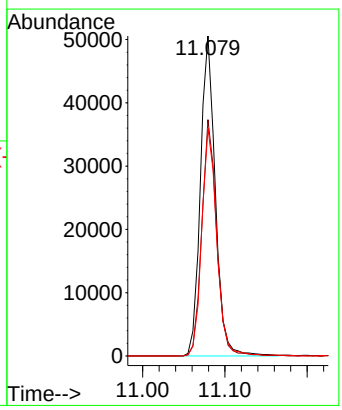


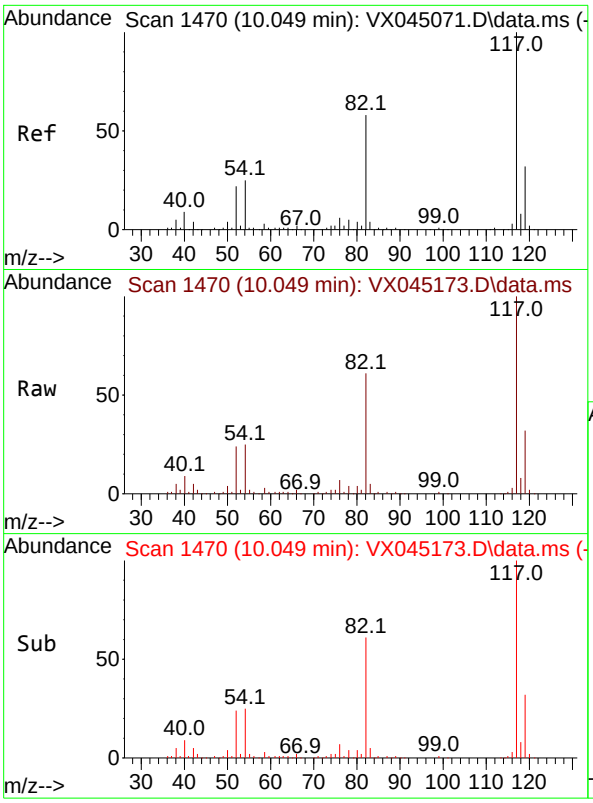


#62
4-Bromofluorobenzene
Concen: 50.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 95 Resp: 63691

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	148.2
176	71.4	0.0	141.4



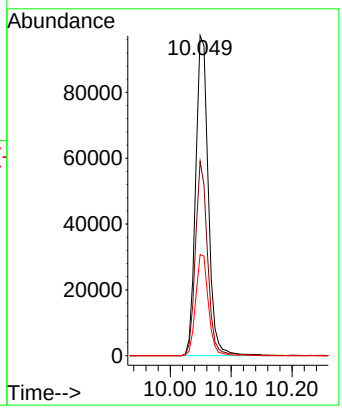


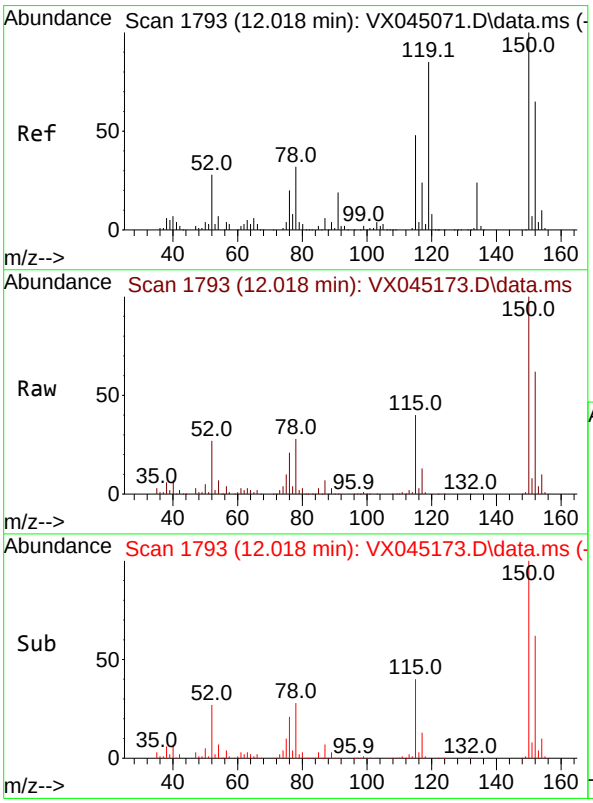
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Tgt Ion:117 Resp: 139915

Ion	Ratio	Lower	Upper
117	100		
82	60.8	46.3	69.5
119	31.6	25.7	38.5

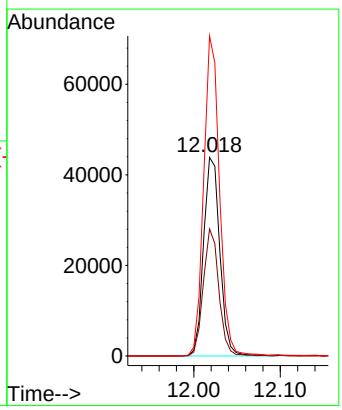




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion:152 Resp: 57260

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.2	132.6
150	157.3	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045174.D
Acq On : 06 Mar 2025 17:25
Operator : JC/MD
Sample : Q1488-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

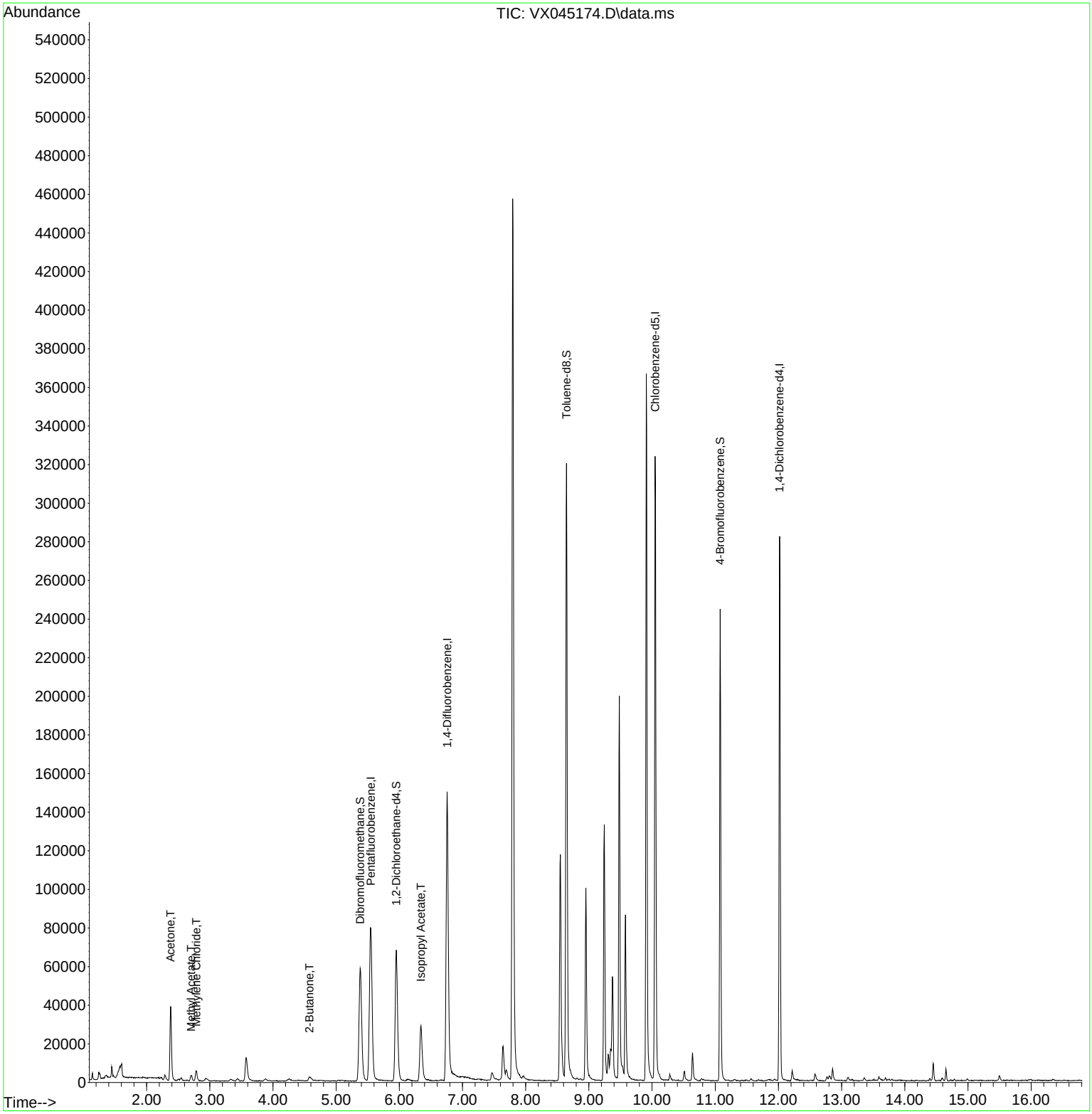
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	75491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138291	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55464	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63445	52.836	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.680%			
35) Dibromofluoromethane	5.379	113	51588	50.599	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.200%			
50) Toluene-d8	8.647	98	190820	51.626	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.260%			
62) 4-Bromofluorobenzene	11.079	95	63521	51.862	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.720%			
Target Compounds						Qvalue
16) Acetone	2.380	43	41961	75.316	ug/l	95
18) Methyl Acetate	2.703	43	3776	2.817	ug/l	98
20) Methylene Chloride	2.788	84	2526	2.289	ug/l	89
25) 2-Butanone	4.574	43	4523	5.393	ug/l	97
43) Isopropyl Acetate	6.342	43	42994	16.138	ug/l	99

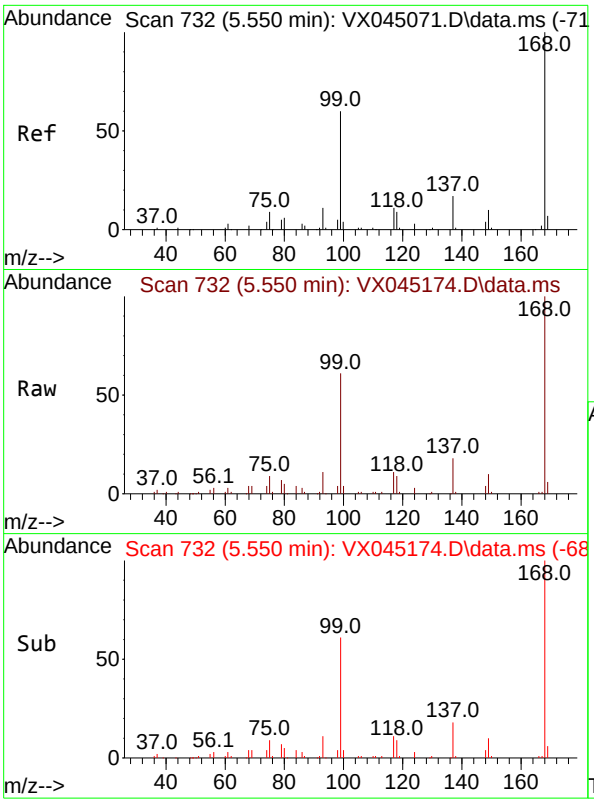
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045174.D
Acq On : 06 Mar 2025 17:25
Operator : JC/MD
Sample : Q1488-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



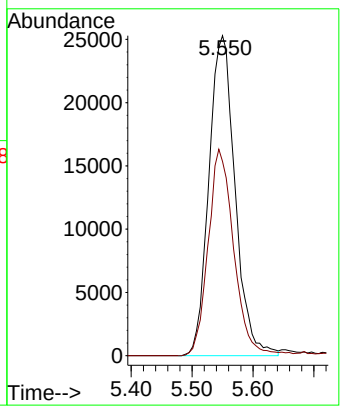


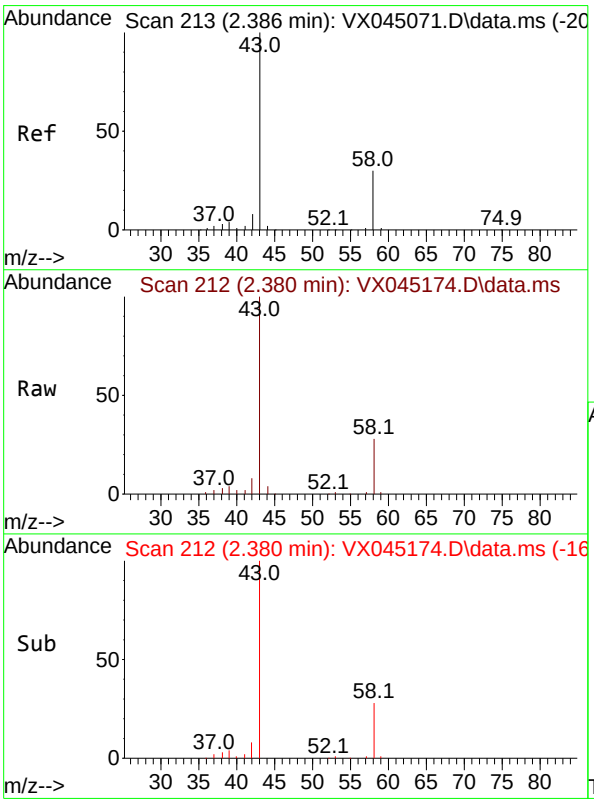
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion:168 Resp: 75491

Ion	Ratio	Lower	Upper
168	100		
99	60.7	48.2	72.4

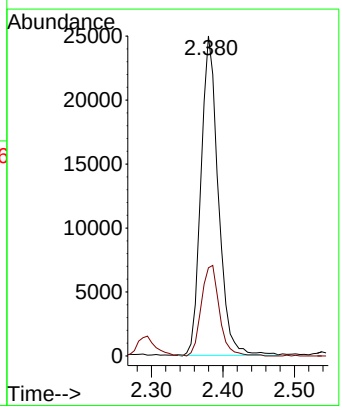


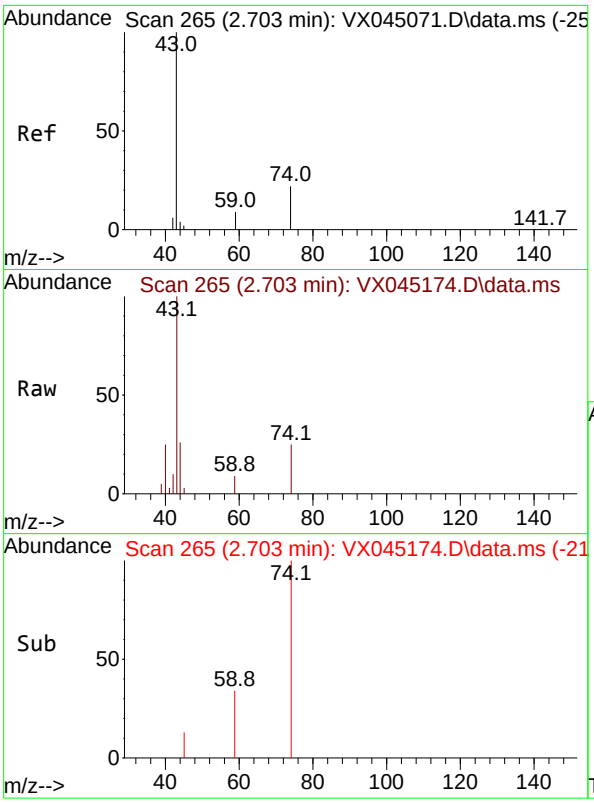


#16
Acetone
Concen: 75.316 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 43 Resp: 41961

Ion	Ratio	Lower	Upper
43	100		
58	27.6	24.2	36.4



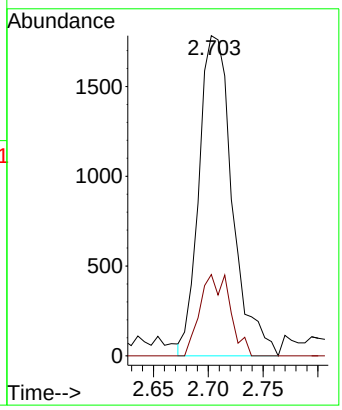


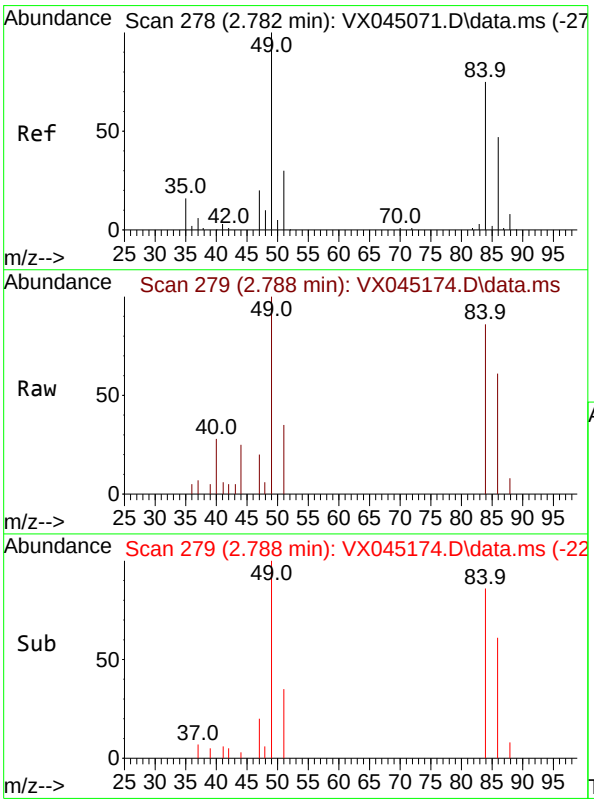
#18
Methyl Acetate
Concen: 2.817 ug/l
RT: 2.703 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion: 43 Resp: 3776

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2

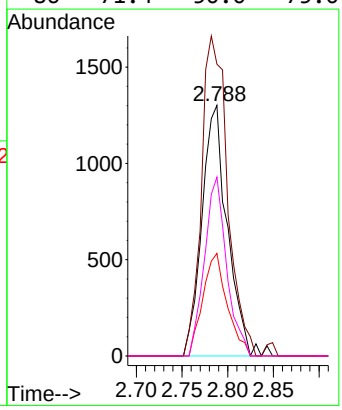


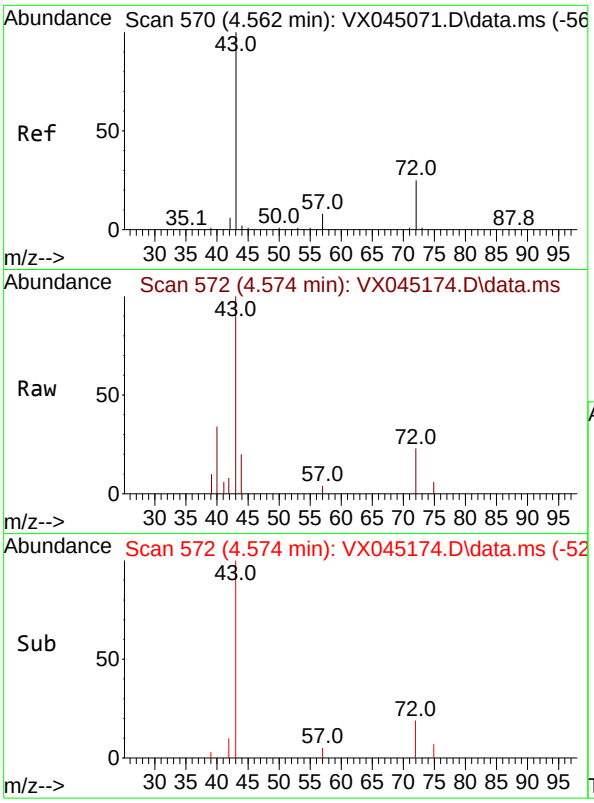


#20
Methylene Chloride
Concen: 2.289 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 84 Resp: 2526

Ion	Ratio	Lower	Upper
84	100		
49	116.5	106.5	159.7
51	41.0	32.1	48.1
86	71.4	50.0	75.0



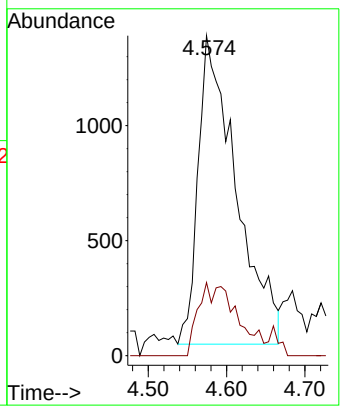


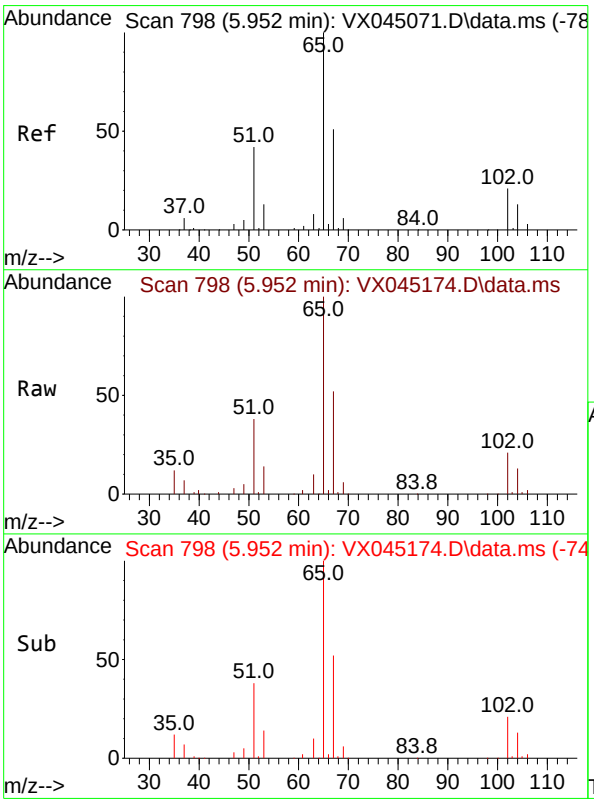
#25
2-Butanone
Concen: 5.393 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion: 43 Resp: 4523

Ion	Ratio	Lower	Upper
43	100		
72	23.7	20.0	30.0

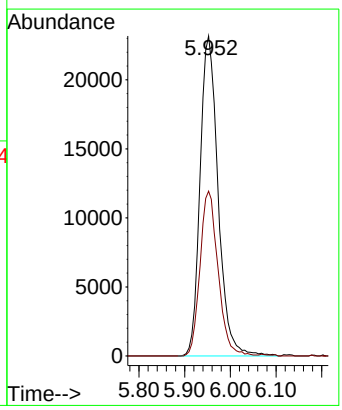


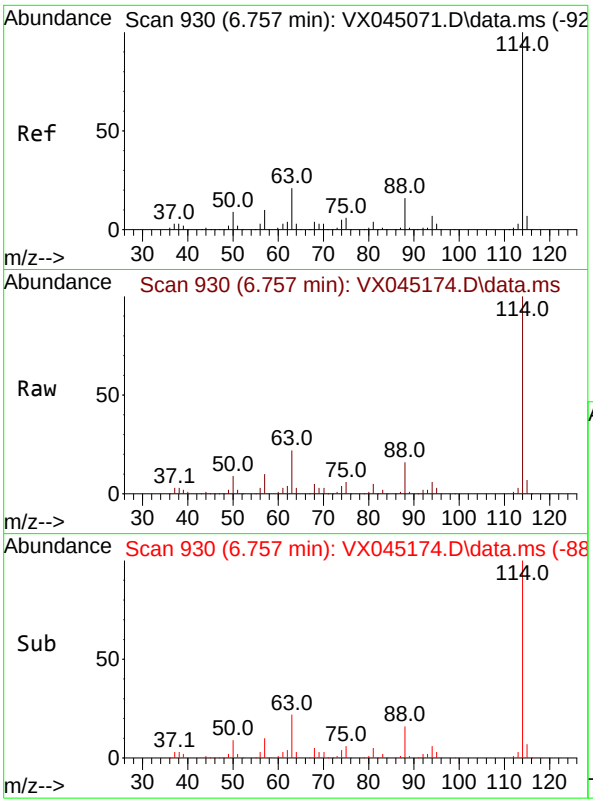


#33
1,2-Dichloroethane-d4
Concen: 52.836 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 65 Resp: 63445

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.2



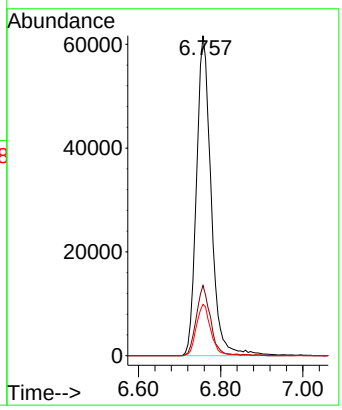


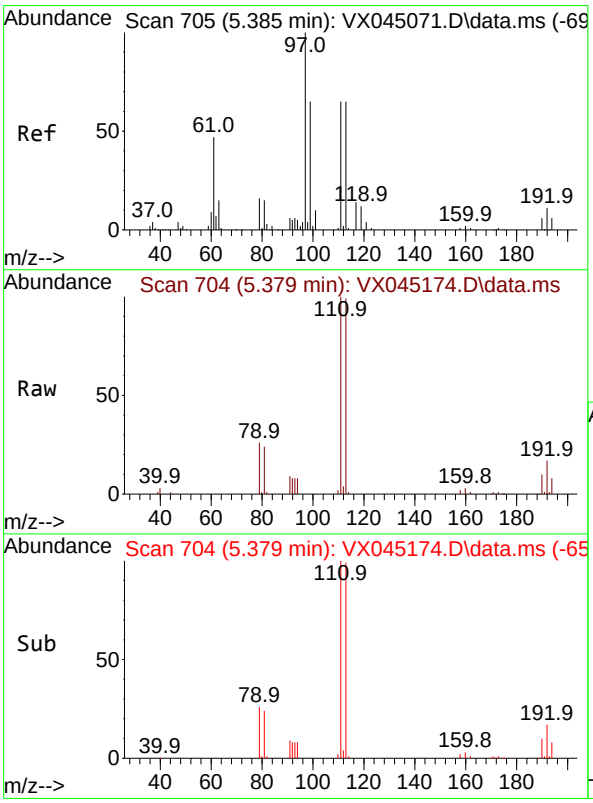
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion:114 Resp: 152473

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	41.8
88	16.0	0.0	32.8

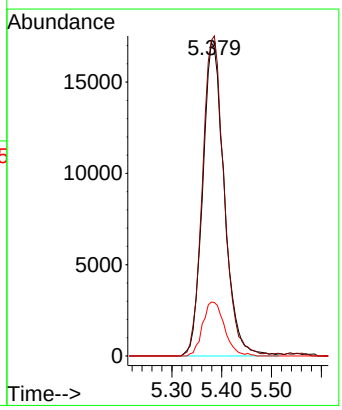


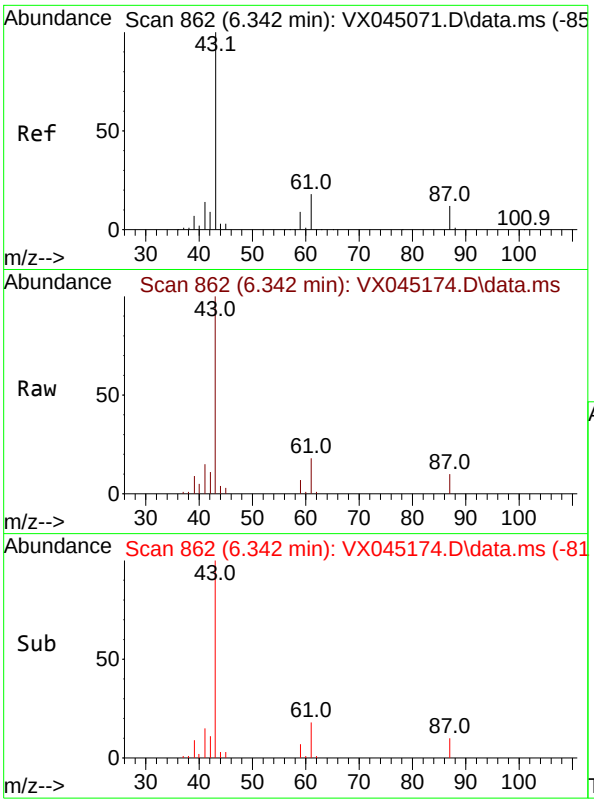


#35
Dibromofluoromethane
Concen: 50.599 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion:113 Resp: 51588

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.6
192	17.4	14.3	21.5



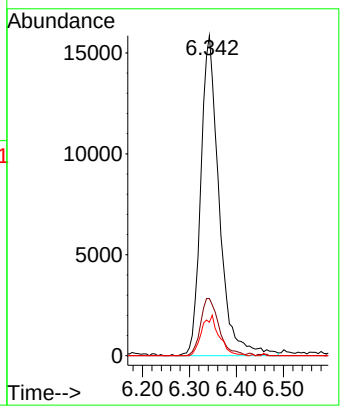


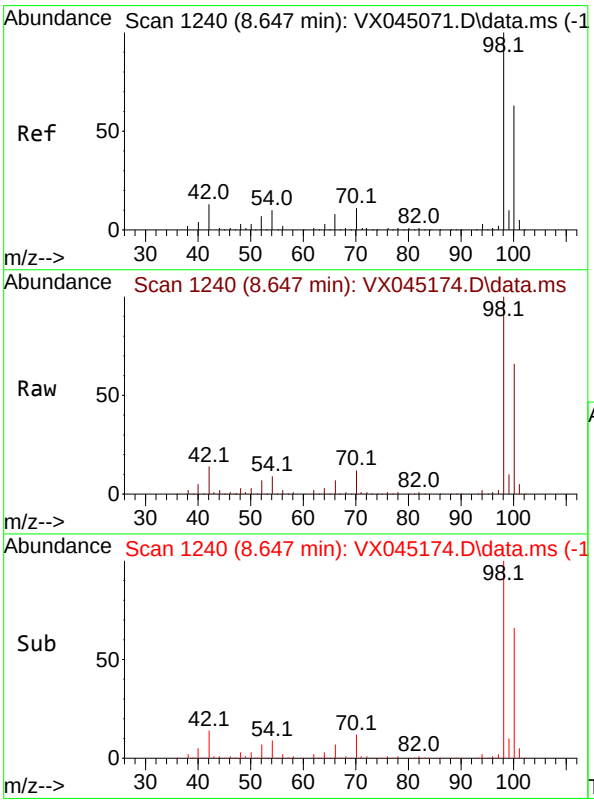
#43
Isopropyl Acetate
Concen: 16.138 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion: 43 Resp: 42994

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	12.0	9.4	14.2

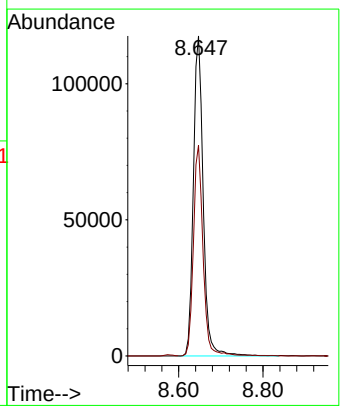


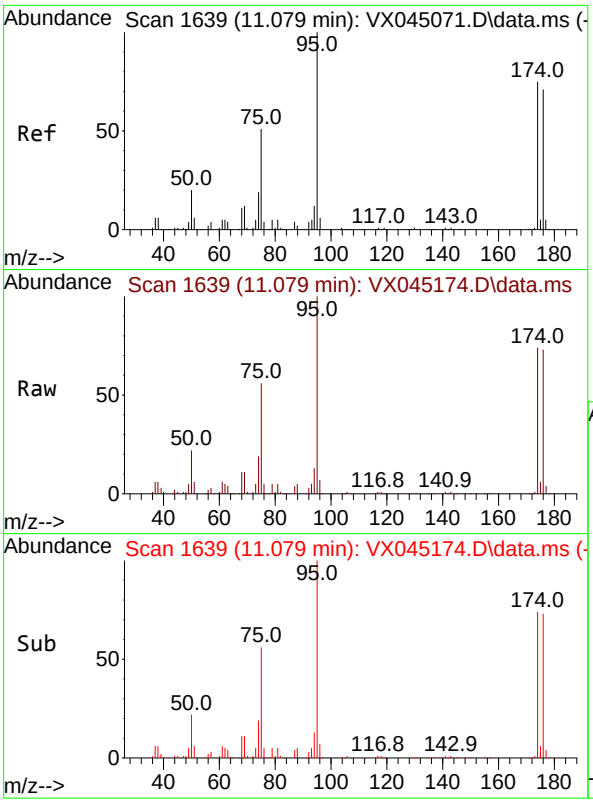


#50
Toluene-d8
Concen: 51.626 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 98 Resp: 190820

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0



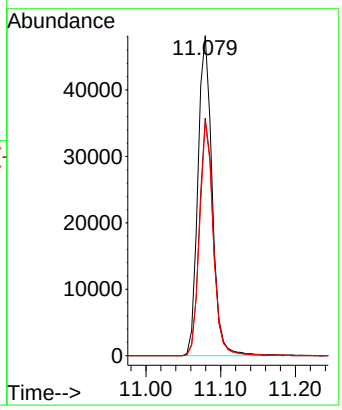


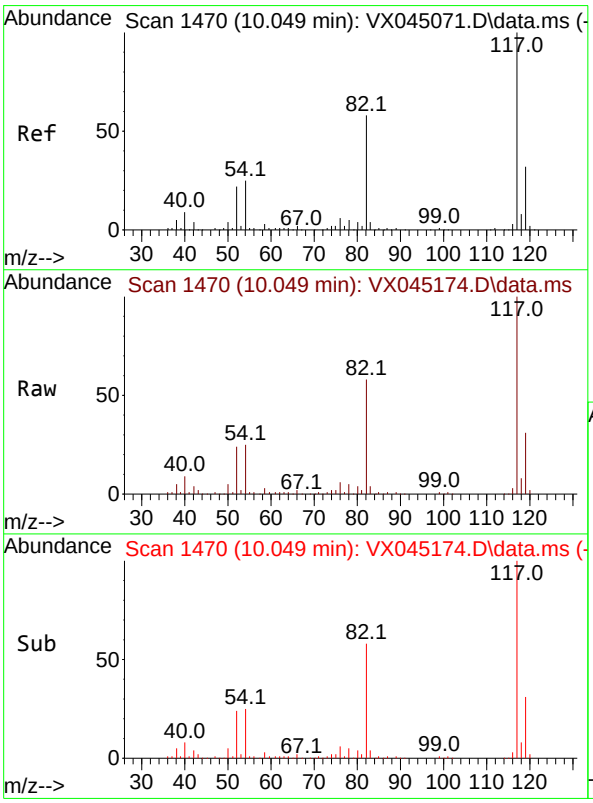
#62
4-Bromofluorobenzene
Concen: 51.862 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion: 95 Resp: 63521

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	148.2
176	70.4	0.0	141.4

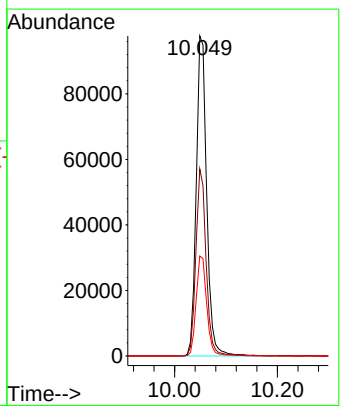


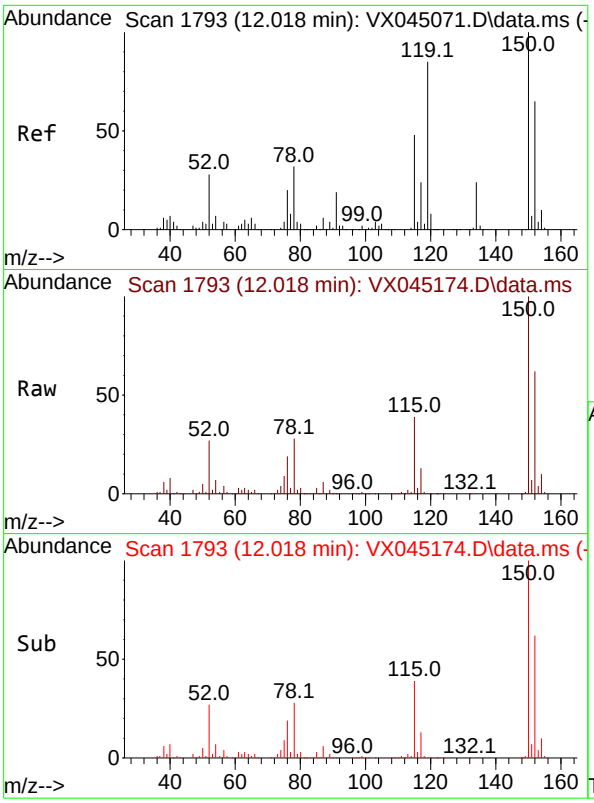


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion:117 Resp: 138291

Ion	Ratio	Lower	Upper
117	100		
82	58.5	46.3	69.5
119	31.2	25.7	38.5



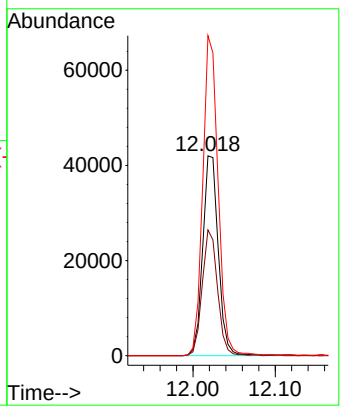


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Tgt Ion:152 Resp: 55464

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.2	132.6
150	158.1	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045175.D
Acq On : 06 Mar 2025 17:49
Operator : JC/MD
Sample : Q1488-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 00:48:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

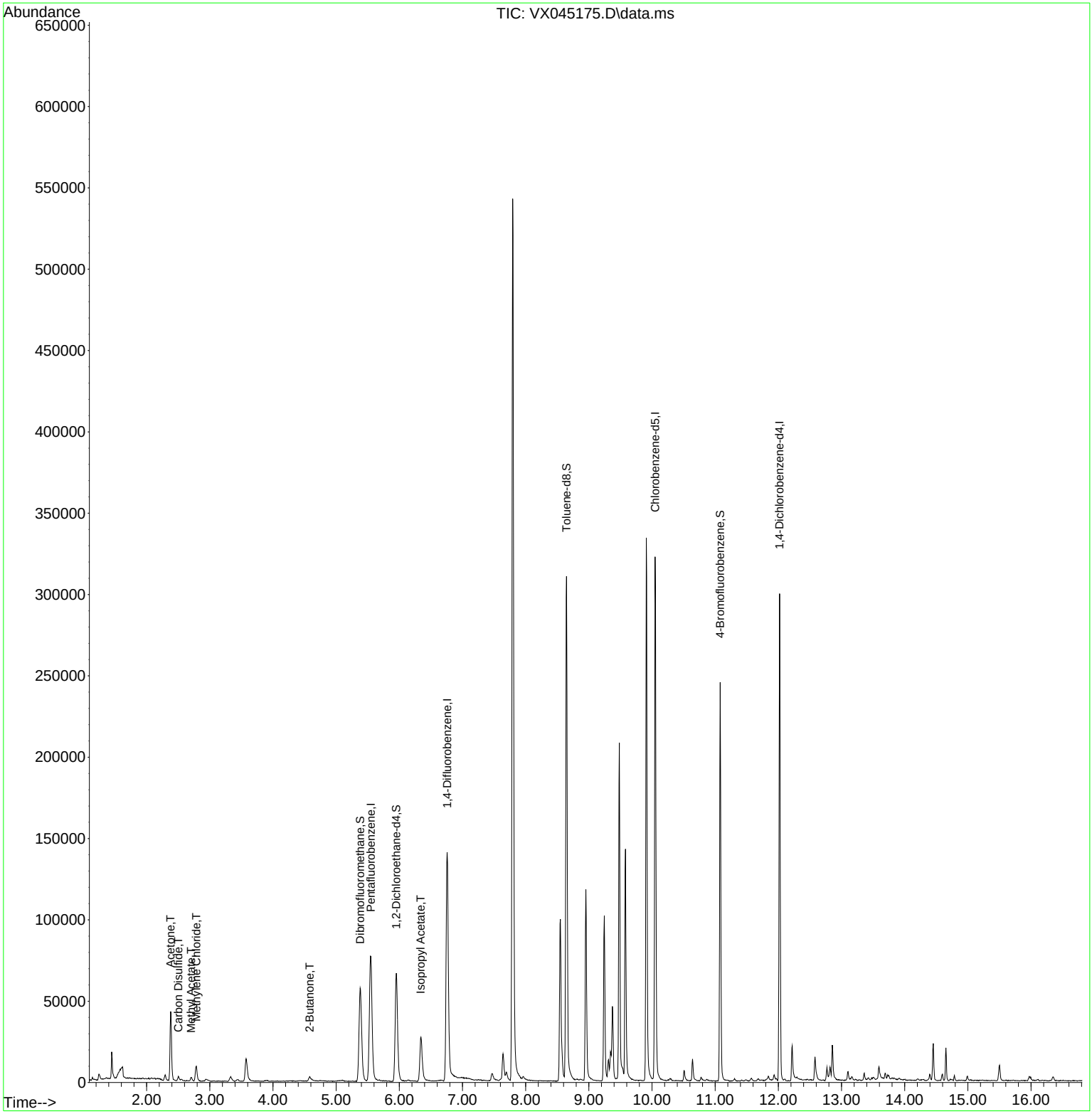
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	75040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	148256	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56384	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62508	52.368	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.740%			
35) Dibromofluoromethane	5.379	113	49589	50.022	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.040%			
50) Toluene-d8	8.647	98	187191	52.084	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.160%			
62) 4-Bromofluorobenzene	11.079	95	62513	52.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.980%			
Target Compounds						Qvalue
16) Acetone	2.380	43	46915	84.714	ug/l	99
17) Carbon Disulfide	2.502	76	3381	1.377	ug/l	100
18) Methyl Acetate	2.703	43	3232	2.426	ug/l	93
20) Methylene Chloride	2.788	84	4495	4.097	ug/l	93
25) 2-Butanone	4.581	43	5655	6.784	ug/l	91
43) Isopropyl Acetate	6.336	43	40419	15.603	ug/l	97

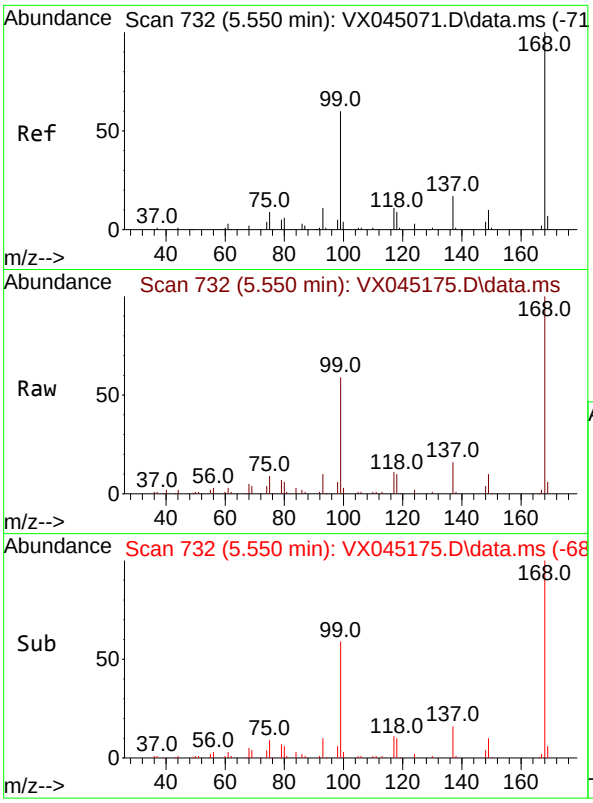
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045175.D
Acq On : 06 Mar 2025 17:49
Operator : JC/MD
Sample : Q1488-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 00:48:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



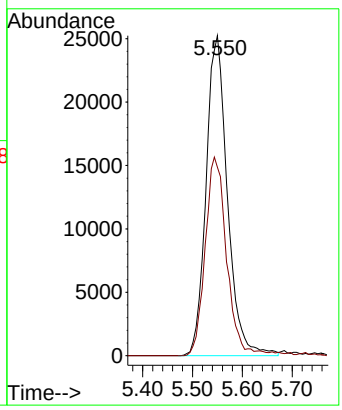


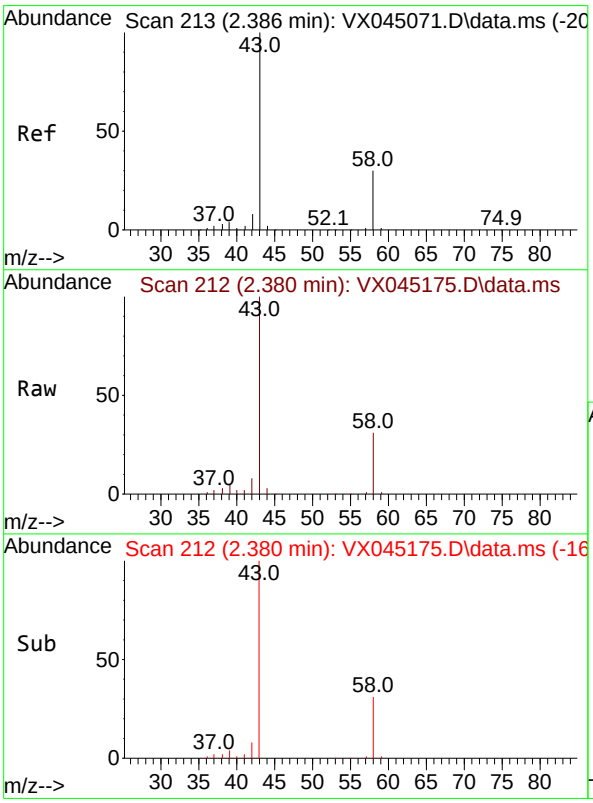
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion:168 Resp: 75040

Ion	Ratio	Lower	Upper
168	100		
99	58.9	48.2	72.4

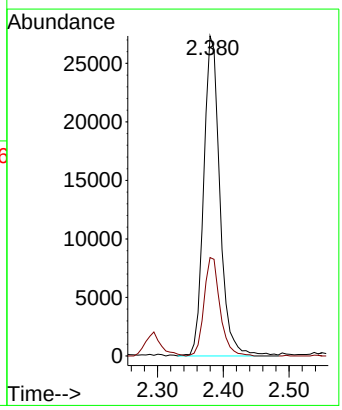


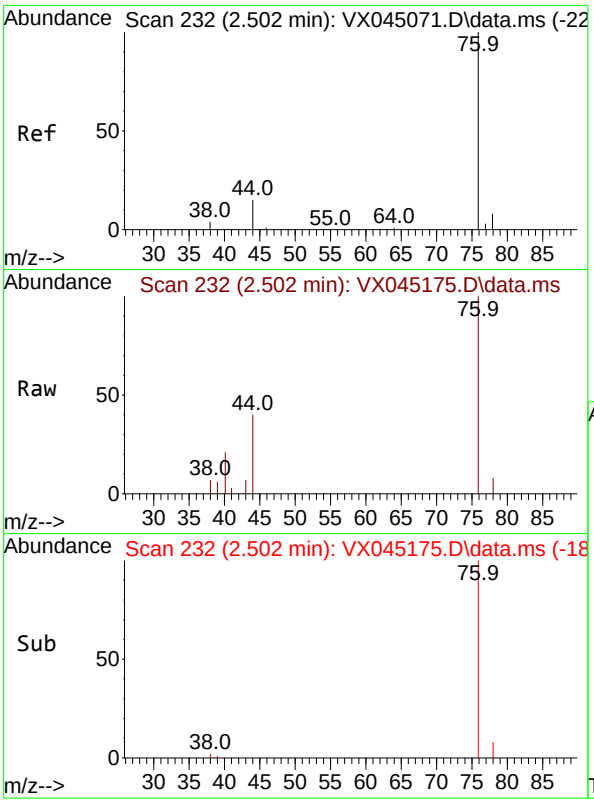


#16
Acetone
Concen: 84.714 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 46915

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.2	36.4



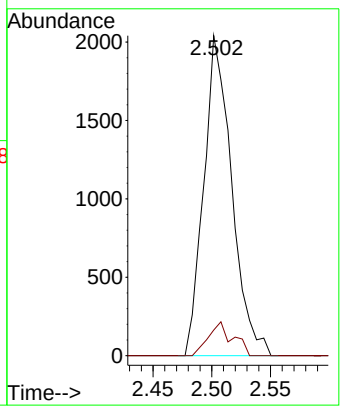


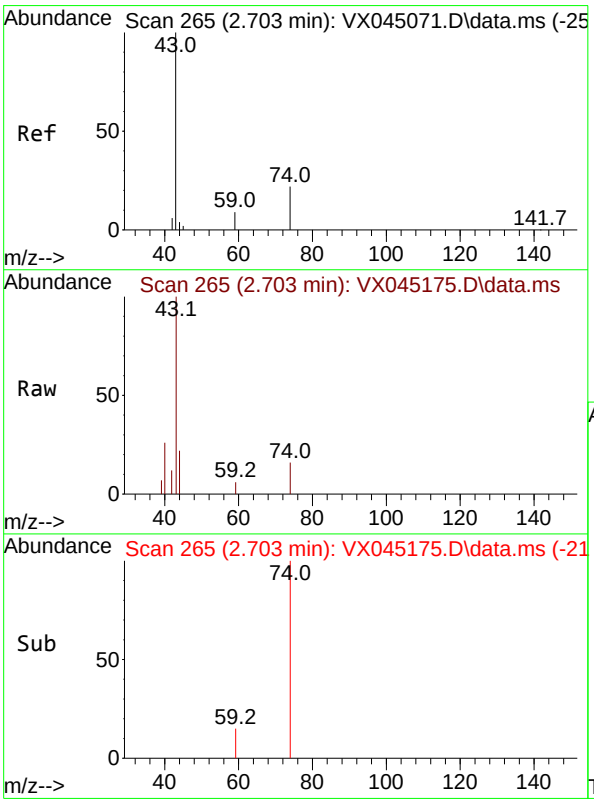
#17
Carbon Disulfide
Concen: 1.377 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion: 76 Resp: 3381

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.6	9.8

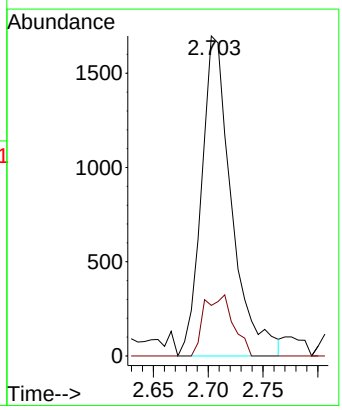


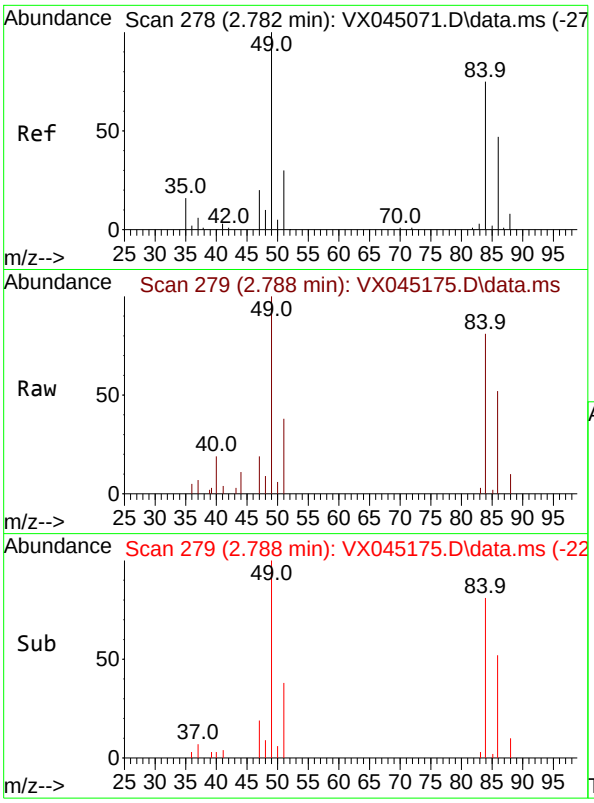


#18
Methyl Acetate
Concen: 2.426 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 3232

Ion	Ratio	Lower	Upper
43	100		
74	18.6	17.4	26.2



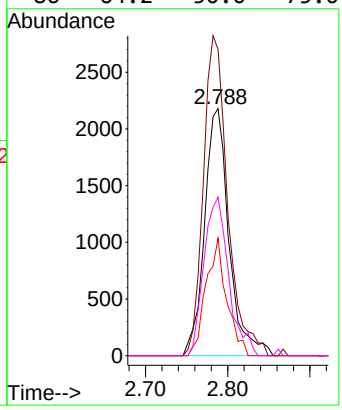


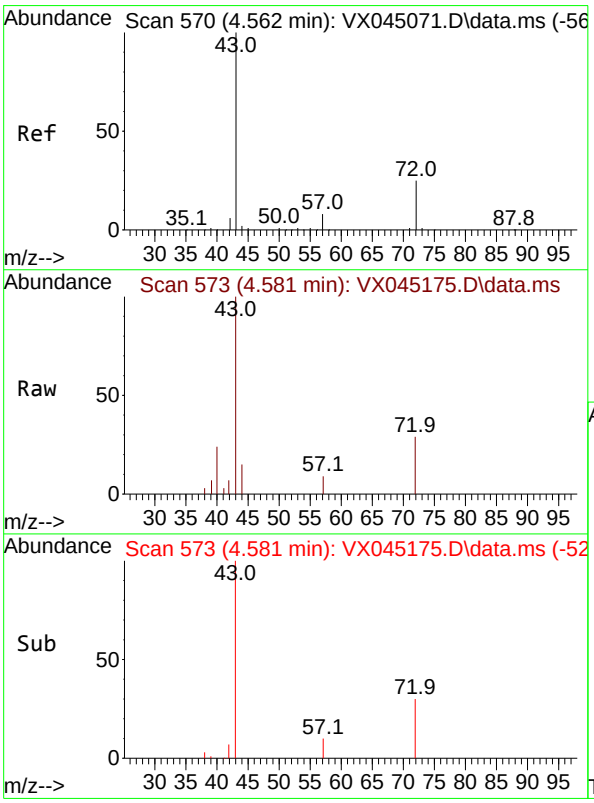
#20
Methylene Chloride
Concen: 4.097 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion: 84 Resp: 4495

Ion	Ratio	Lower	Upper
84	100		
49	124.0	106.5	159.7
51	47.5	32.1	48.1
86	64.2	50.0	75.0

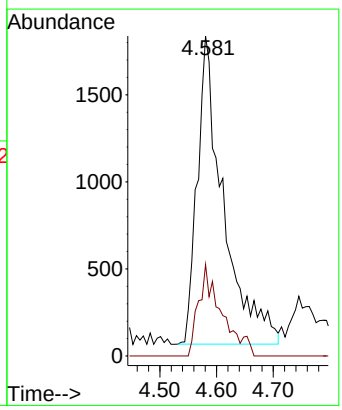


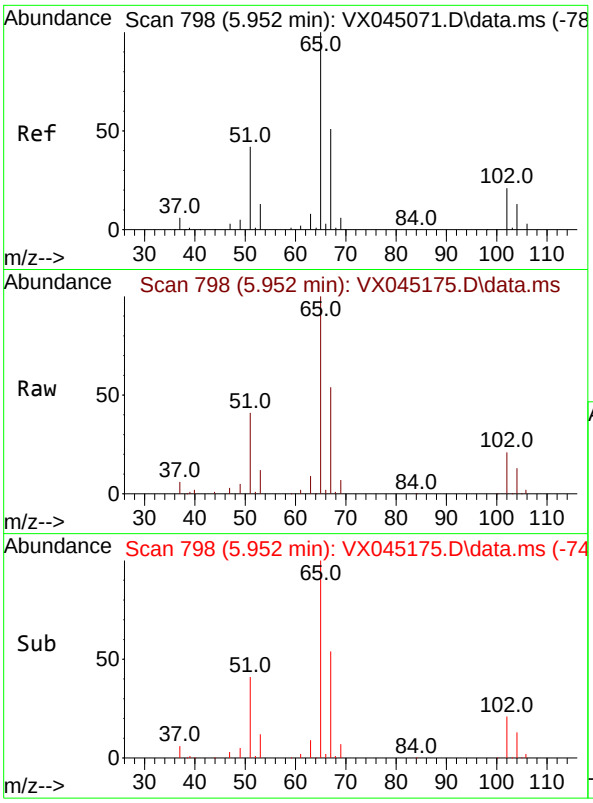


#25
2-Butanone
Concen: 6.784 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.018 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 5655

Ion	Ratio	Lower	Upper
43	100		
72	29.7	20.0	30.0



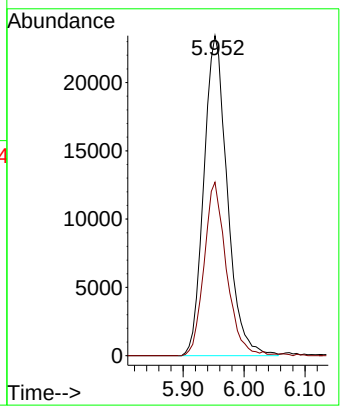


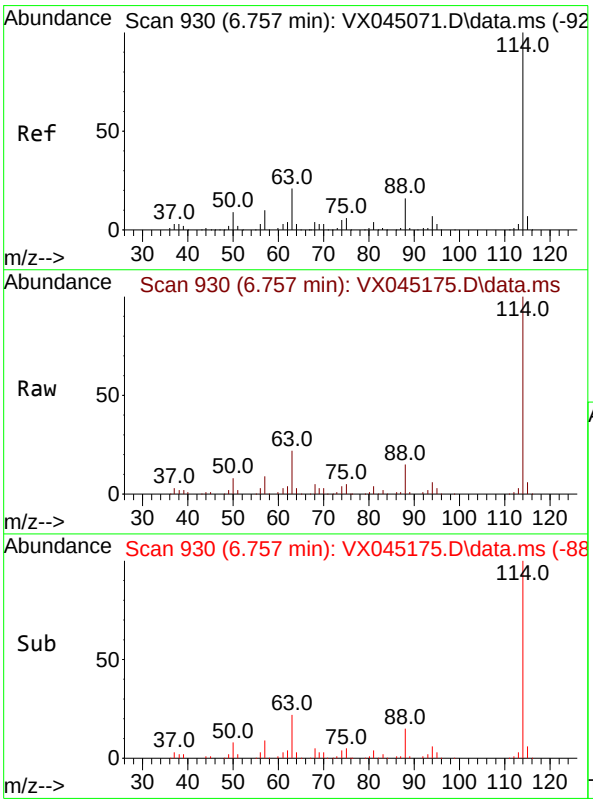
#33
1,2-Dichloroethane-d4
Concen: 52.368 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion: 65 Resp: 62508

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	106.2

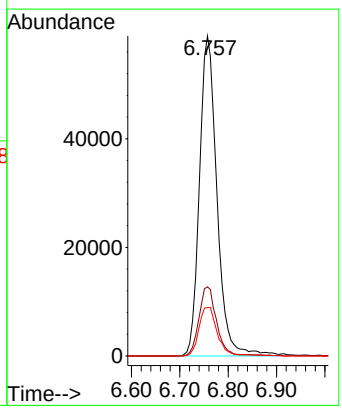


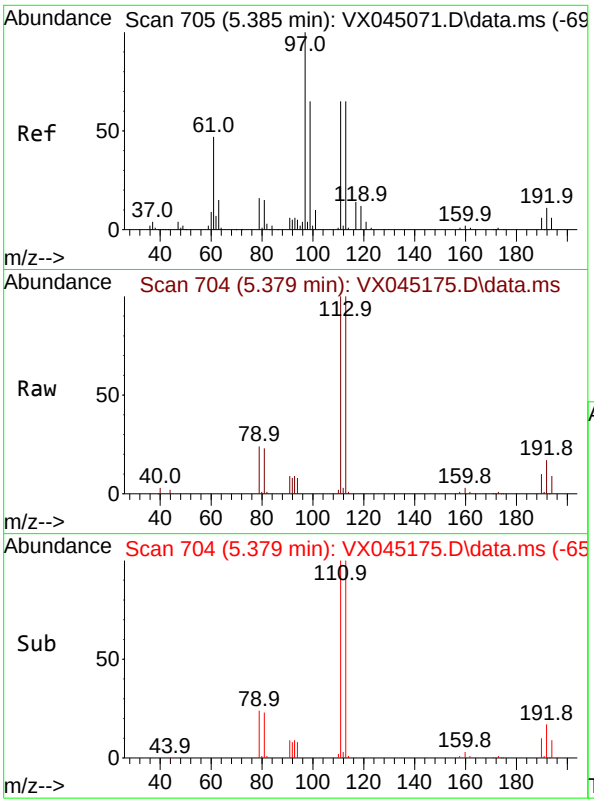


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion:114 Resp: 148256

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	41.8
88	15.2	0.0	32.8



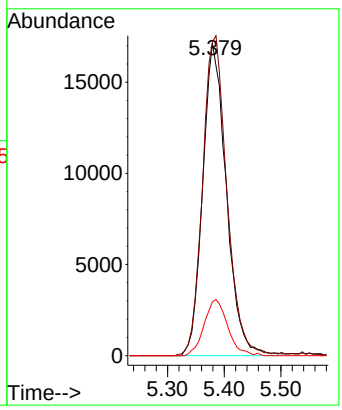


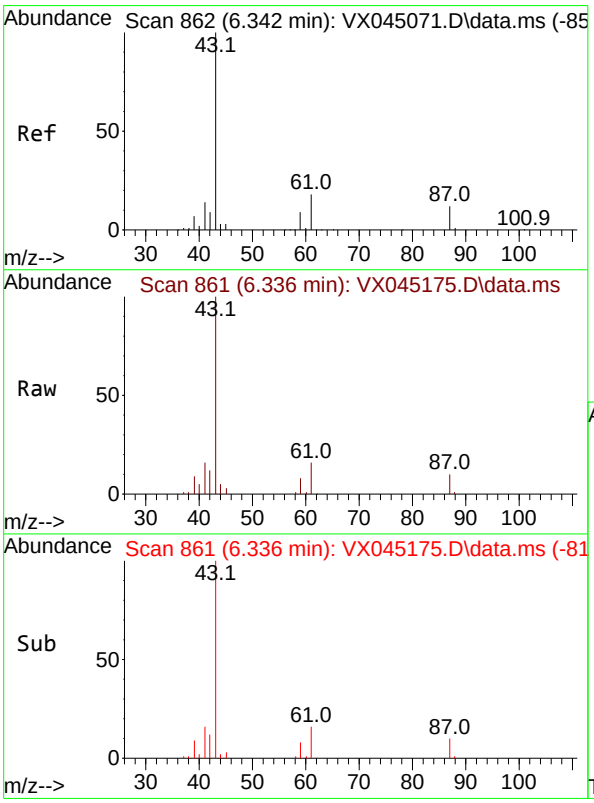
#35
Dibromofluoromethane
Concen: 50.022 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion:113 Resp: 49589

Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.8	122.6
192	18.0	14.3	21.5

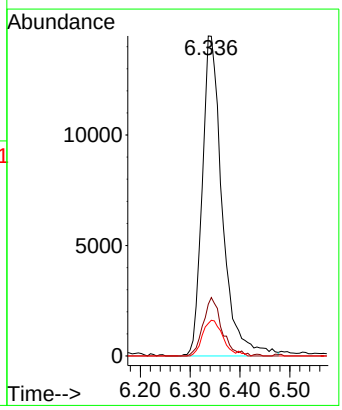


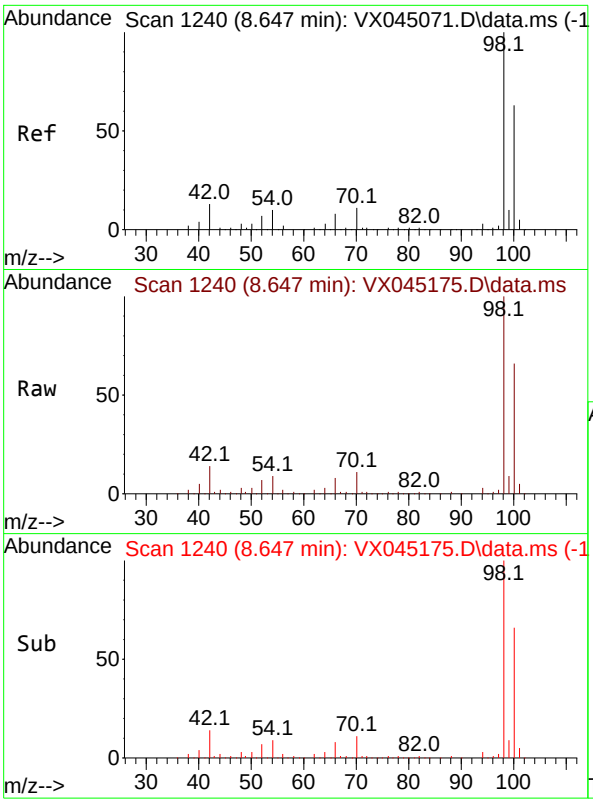


#43
Isopropyl Acetate
Concen: 15.603 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 40419

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	11.4	9.4	14.2



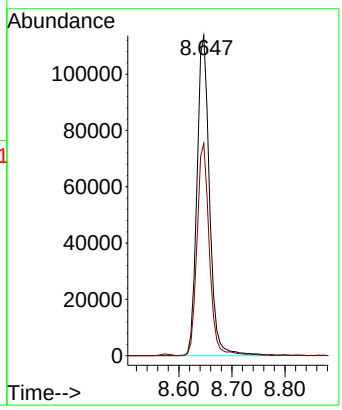


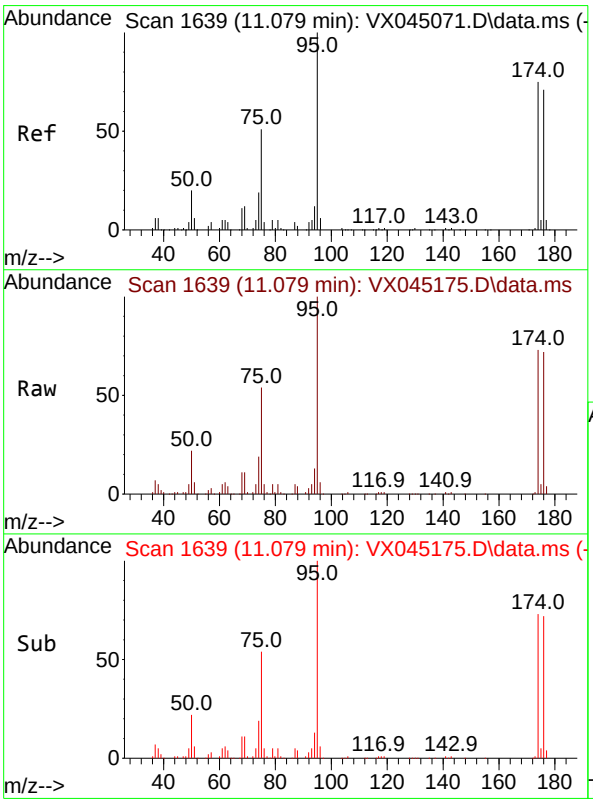
#50
Toluene-d8
Concen: 52.084 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion: 98 Resp: 187191

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0

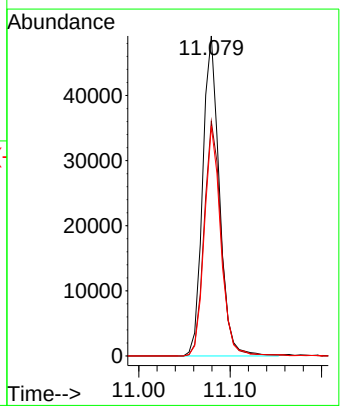


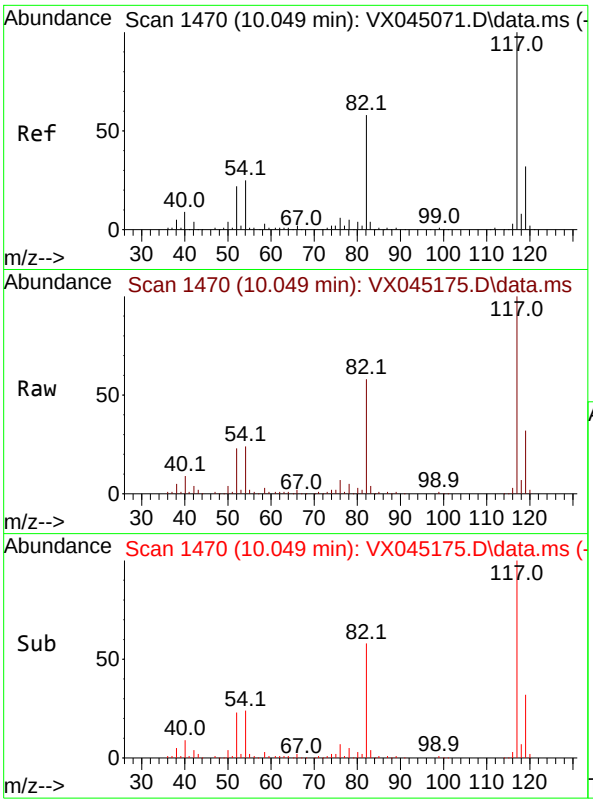


#62
4-Bromofluorobenzene
Concen: 52.491 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 95 Resp: 62513

Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	148.2
176	70.9	0.0	141.4



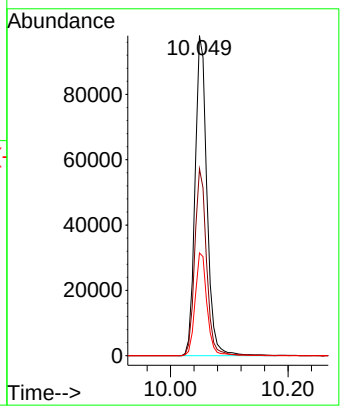


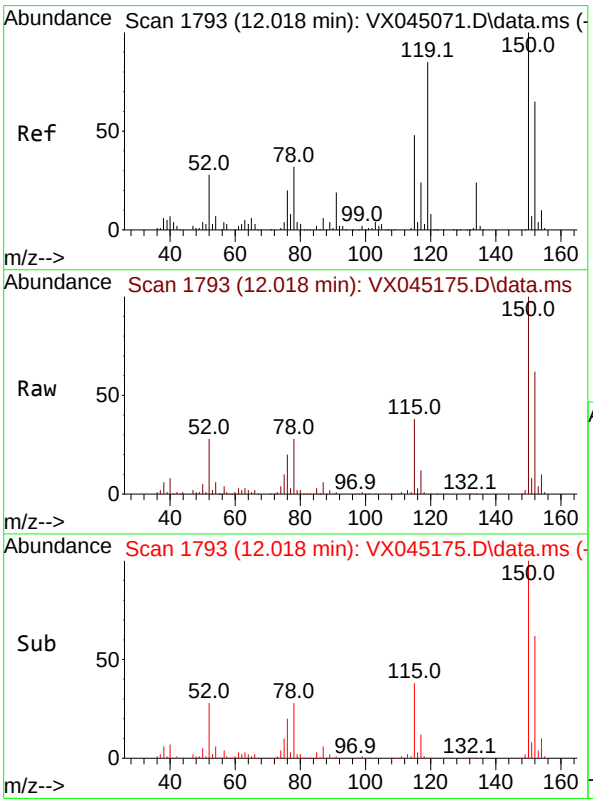
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion:117 Resp: 137450

Ion	Ratio	Lower	Upper
117	100		
82	58.4	46.3	69.5
119	32.1	25.7	38.5

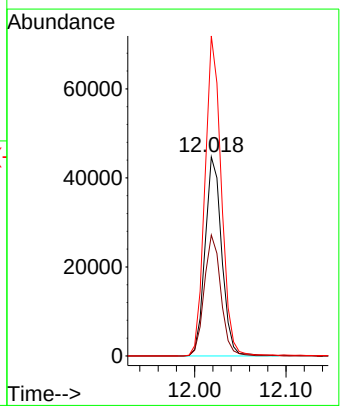




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion:152 Resp: 56384

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.2	132.6
150	158.4	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

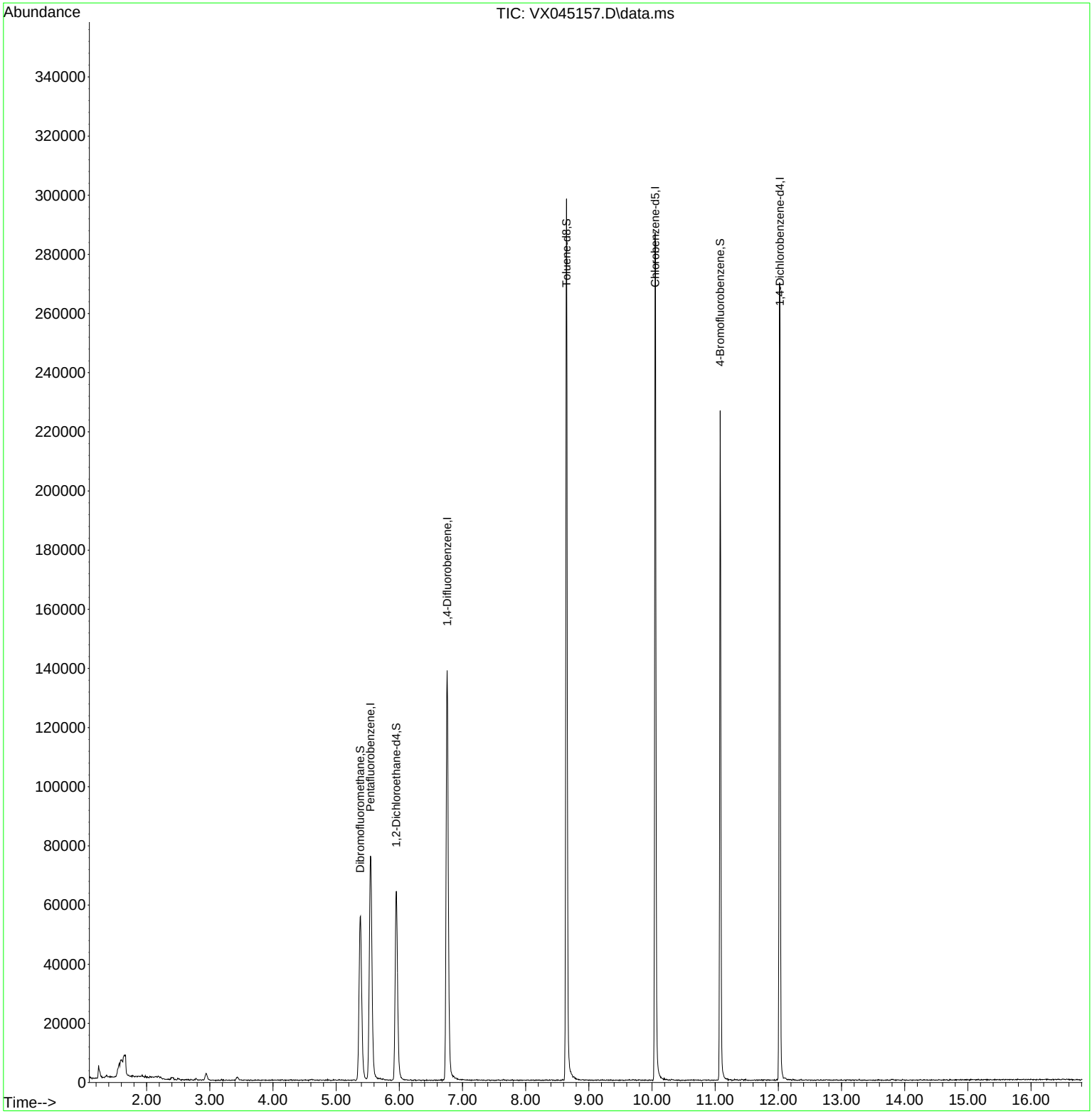
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	71177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139793	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61044	53.917	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.840%			
35) Dibromofluoromethane	5.379	113	48946	52.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%			
50) Toluene-d8	8.647	98	177288	52.315	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.640%			
62) 4-Bromofluorobenzene	11.079	95	58160	51.792	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds						Qvalue

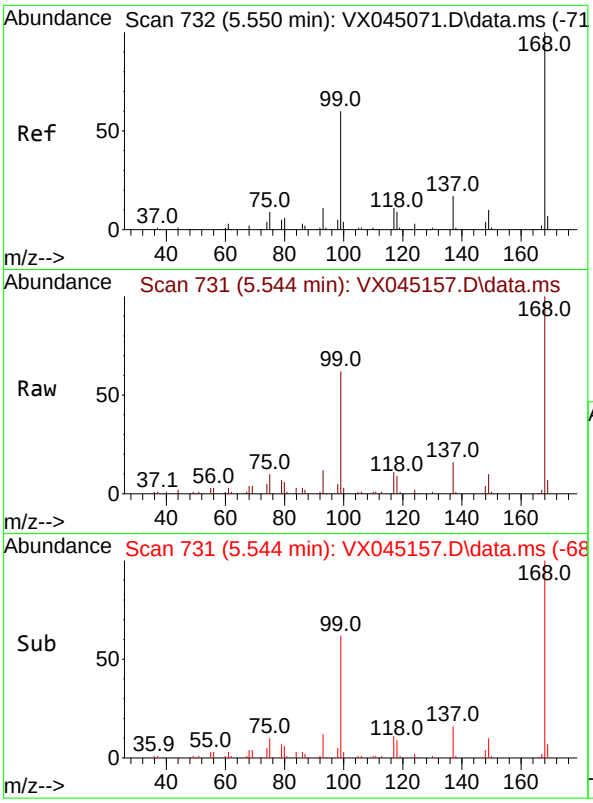
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



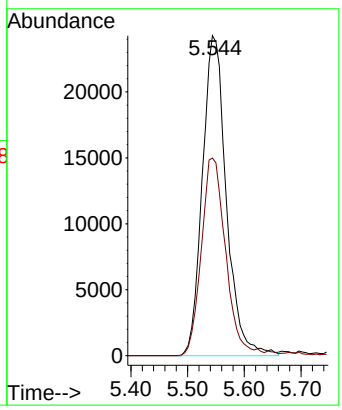


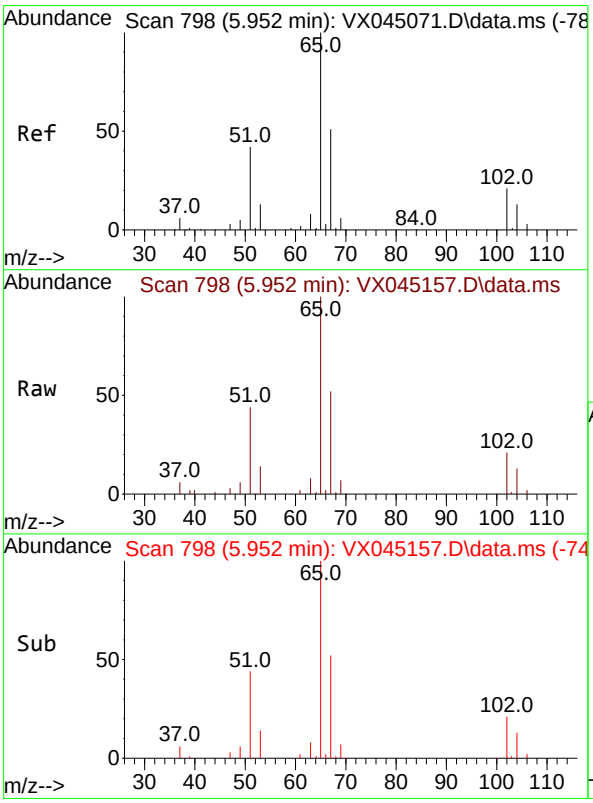
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:168 Resp: 71177

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

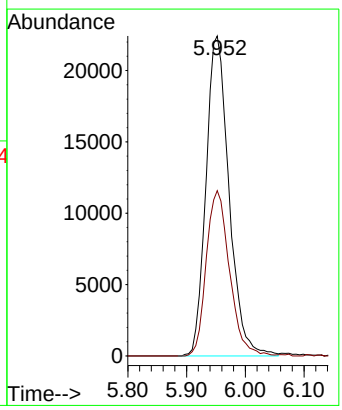


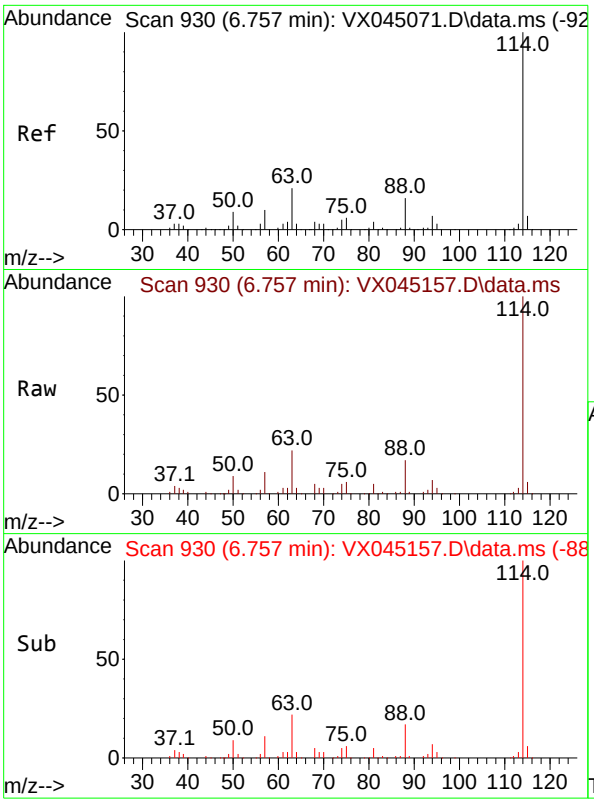


#33
1,2-Dichloroethane-d4
Concen: 53.917 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 65 Resp: 61044

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.2



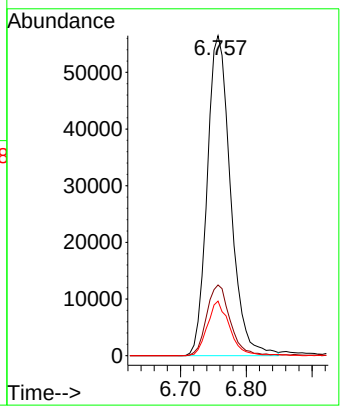


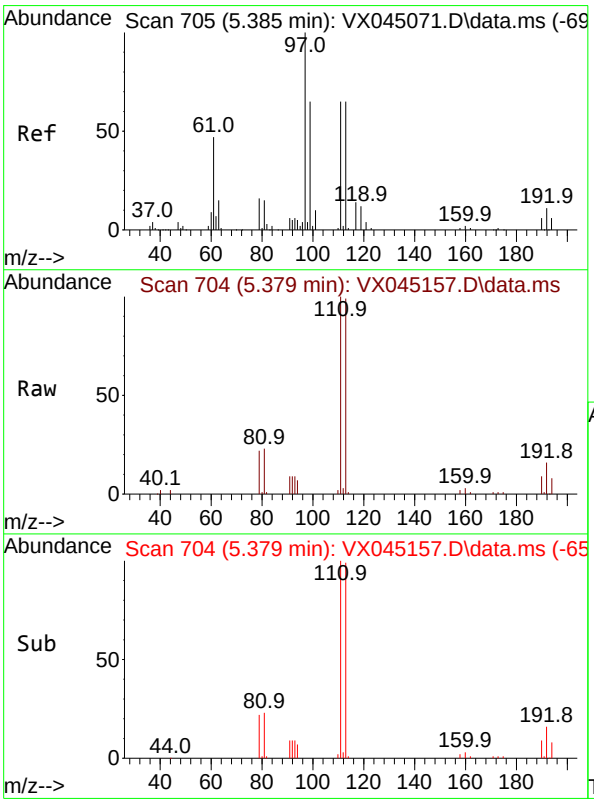
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:114 Resp: 139793

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	17.1	0.0	32.8

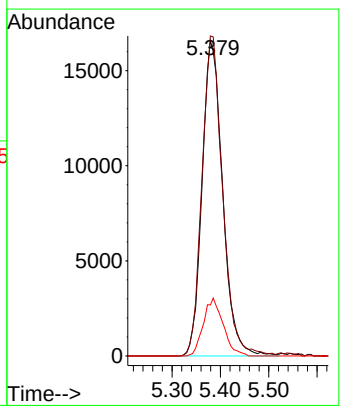


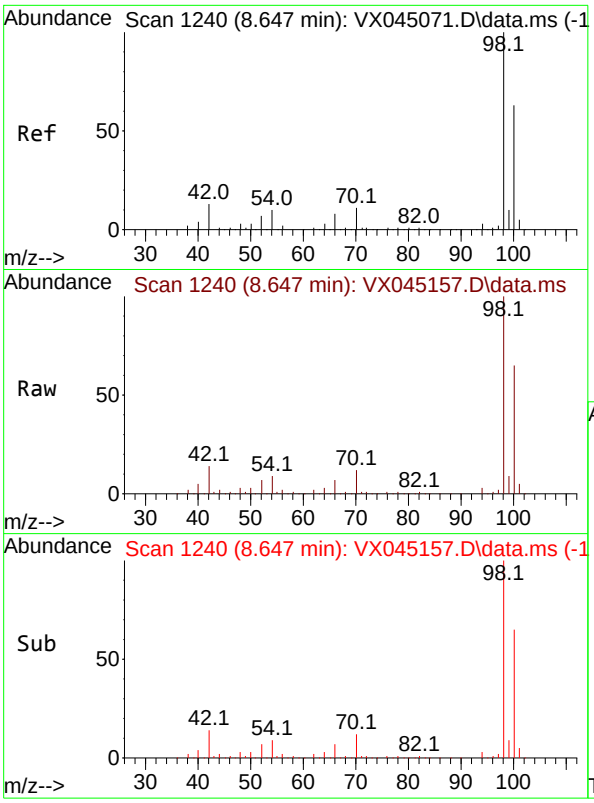


#35
Dibromofluoromethane
Concen: 52.362 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:113 Resp: 48946

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	17.7	14.3	21.5



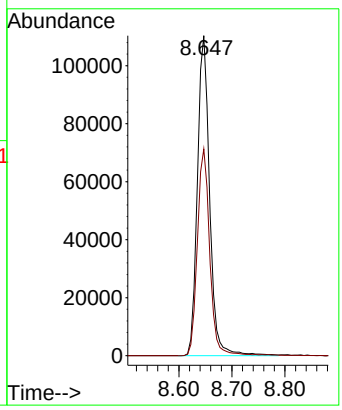


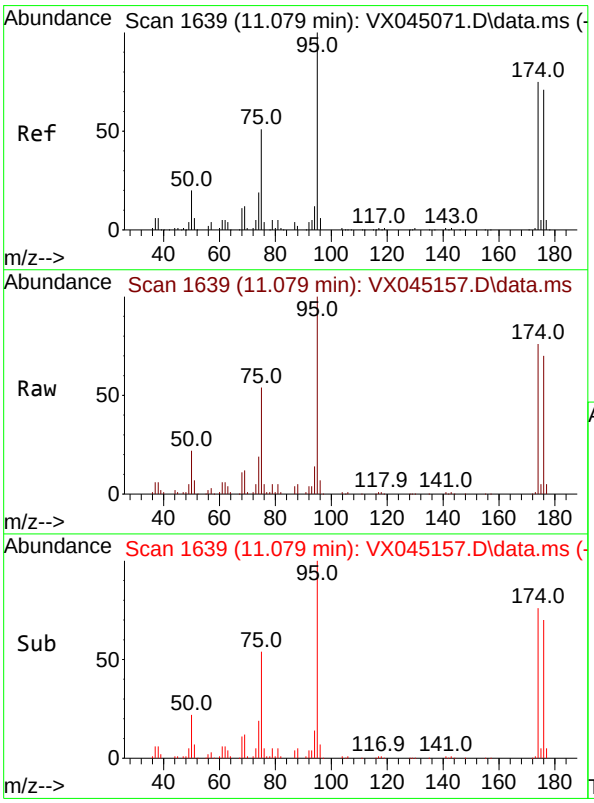
#50
Toluene-d8
Concen: 52.315 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion: 98 Resp: 177288

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.0	78.0

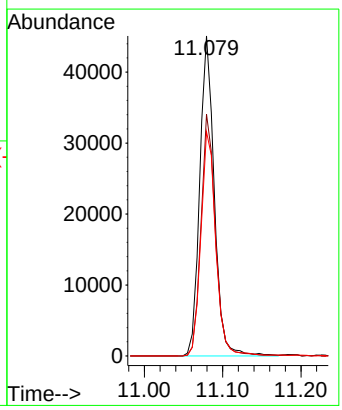


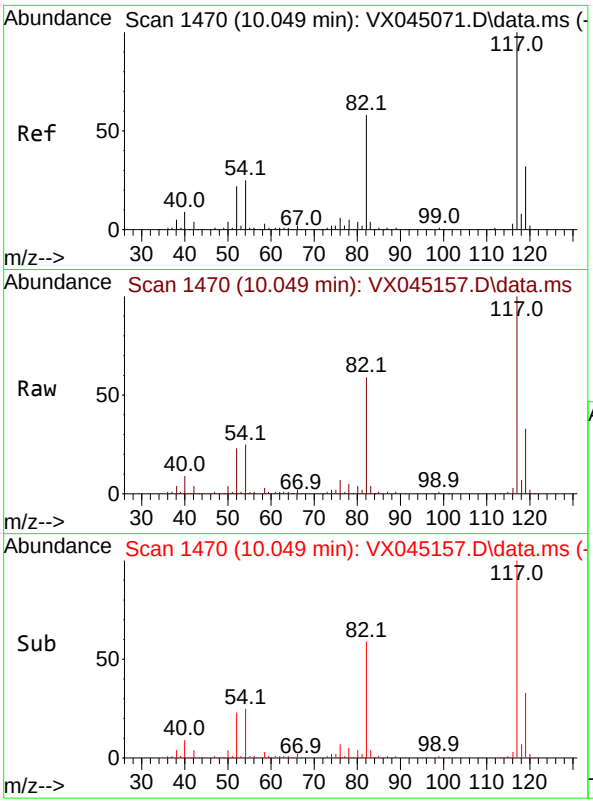


#62
4-Bromofluorobenzene
Concen: 51.792 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 95 Resp: 58160

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	148.2
176	71.7	0.0	141.4



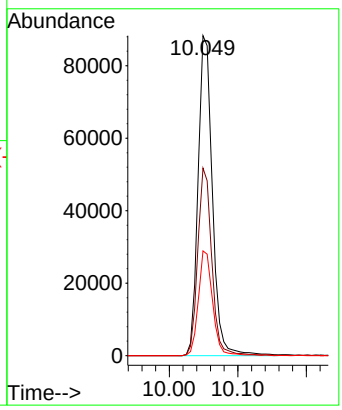


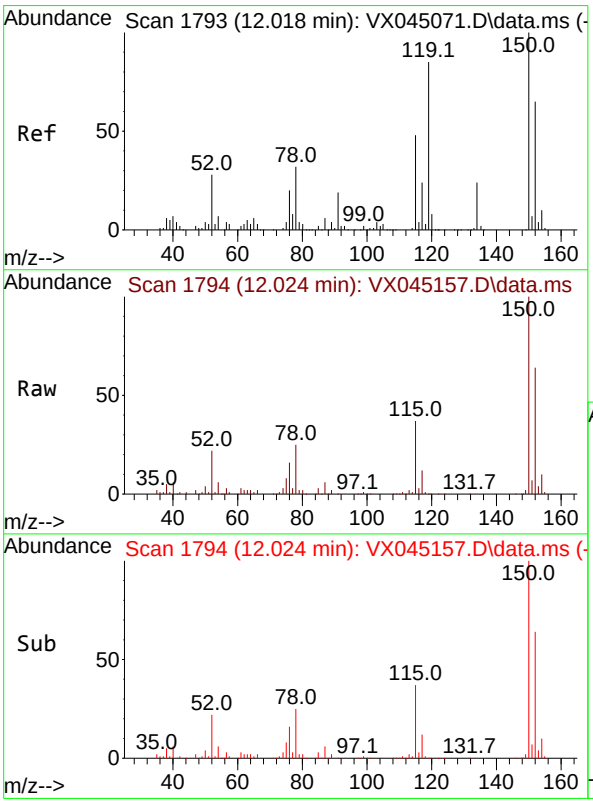
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:117 Resp: 129041

Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.3	69.5
119	32.8	25.7	38.5

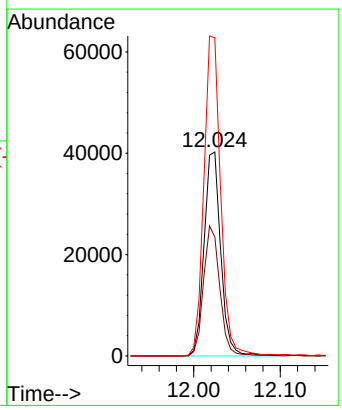




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:152 Resp: 53719

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.2	132.6
150	159.1	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	97102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175752	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77517	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	59755	50.846	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	8.647	98	214149	50.263	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	69431	49.179	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25313	20.710	ug/l	96
3) Chloromethane	1.307	50	28610	19.127	ug/l	99
4) Vinyl Chloride	1.374	62	28735	19.365	ug/l	96
5) Bromomethane	1.593	94	11051	18.945	ug/l	98
6) Chloroethane	1.660	64	11910	17.401	ug/l	94
7) Trichlorofluoromethane	1.861	101	41329	21.039	ug/l	98
8) Diethyl Ether	2.136	74	15031	19.563	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	25913	22.961	ug/l	99
10) Methyl Iodide	2.440	142	28535	20.232	ug/l	97
11) Tert butyl alcohol	2.995	59	24878	85.035	ug/l	99
12) 1,1-Dichloroethene	2.306	96	25437	21.319	ug/l	96
13) Acrolein	2.239	56	32240	95.330	ug/l	97
14) Allyl chloride	2.654	41	45464	21.406	ug/l	99
15) Acrylonitrile	3.068	53	80620	102.818	ug/l	100
16) Acetone	2.392	43	70356	98.177	ug/l	100
17) Carbon Disulfide	2.495	76	56434	17.758	ug/l	100
18) Methyl Acetate	2.709	43	38789	22.500	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83027	20.741	ug/l	98
20) Methylene Chloride	2.782	84	28513	20.086	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	25882	21.957	ug/l	92
22) Diisopropyl ether	3.763	45	92263	21.360	ug/l	92
23) Vinyl Acetate	3.721	43	379422	105.258	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50777	20.975	ug/l	99
25) 2-Butanone	4.568	43	112114	103.935	ug/l	100
26) 2,2-Dichloropropane	4.464	77	31636	27.861	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	30793	21.161	ug/l	95
28) Bromochloromethane	4.897	49	20937	18.145	ug/l	98
29) Tetrahydrofuran	5.007	42	72574	100.185	ug/l	99
30) Chloroform	5.092	83	50960	21.186	ug/l	100
31) Cyclohexane	5.458	56	46499	22.128	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	40911	21.059	ug/l	98
36) 1,1-Dichloropropene	5.684	75	34442	21.370	ug/l	99
37) Ethyl Acetate	4.714	43	41415	19.942	ug/l	100
38) Carbon Tetrachloride	5.672	117	33530	20.492	ug/l	98
39) Methylcyclohexane	7.372	83	44224	22.900	ug/l	97
40) Benzene	6.031	78	109500	21.516	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	23322	20.769	ug/l		99
42) 1,2-Dichloroethane	6.086	62	39213	21.397	ug/l		100
43) Isopropyl Acetate	6.342	43	62094	20.220	ug/l		100
44) Trichloroethene	7.123	130	24906	20.842	ug/l		97
45) 1,2-Dichloropropane	7.427	63	27481	21.002	ug/l		99
46) Dibromomethane	7.580	93	19832	21.443	ug/l		98
47) Bromodichloromethane	7.818	83	37772	20.821	ug/l		97
48) Methyl methacrylate	7.696	41	31277	20.301	ug/l		98
49) 1,4-Dioxane	7.665	88	13860	426.482	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	215309	104.420	ug/l		99
52) Toluene	8.714	92	65138	21.814	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	30950	20.407	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	37460	21.182	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	24854	20.219	ug/l		97
56) Ethyl methacrylate	9.116	69	37529	20.084	ug/l		97
57) 1,3-Dichloropropane	9.305	76	43951	20.660	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	89701	98.410	ug/l		99
59) 2-Hexanone	9.433	43	158142	105.853	ug/l		99
60) Dibromochloromethane	9.518	129	25020	19.466	ug/l		99
61) 1,2-Dibromoethane	9.610	107	24964	20.343	ug/l		100
64) Tetrachloroethene	9.268	164	21040	22.233	ug/l		91
65) Chlorobenzene	10.079	112	67652	21.638	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	21012	20.181	ug/l		97
67) Ethyl Benzene	10.189	91	118147	21.687	ug/l		99
68) m/p-Xylenes	10.299	106	87720	43.986	ug/l		99
69) o-Xylene	10.640	106	43323	21.539	ug/l		99
70) Styrene	10.652	104	70623	21.700	ug/l		99
71) Bromoform	10.799	173	15238	19.408	ug/l	#	100
73) Isopropylbenzene	10.963	105	111617	21.304	ug/l		100
74) N-amyl acetate	10.841	43	50220	20.428	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	39941	20.775	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31293m	20.030	ug/l		
77) Bromobenzene	11.195	156	25608	20.716	ug/l		100
78) n-propylbenzene	11.305	91	126790	21.423	ug/l		100
79) 2-Chlorotoluene	11.360	91	77393	20.533	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	91126	21.511	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	7740	16.954	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	87322	21.257	ug/l		99
83) tert-Butylbenzene	11.713	119	91061	20.921	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	91832	21.544	ug/l		100
85) sec-Butylbenzene	11.890	105	112914	21.656	ug/l		100
86) p-Isopropyltoluene	12.006	119	90968	21.589	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45783	20.761	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	46189	20.703	ug/l		97
89) n-Butylbenzene	12.329	91	79568	21.925	ug/l		99
90) Hexachloroethane	12.536	117	14633	19.200	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	46647	21.087	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7641	20.400	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	26728	21.219	ug/l		99
94) Hexachlorobutadiene	13.725	225	11477	22.224	ug/l		96
95) Naphthalene	13.774	128	102859	21.254	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	28765	21.647	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

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

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

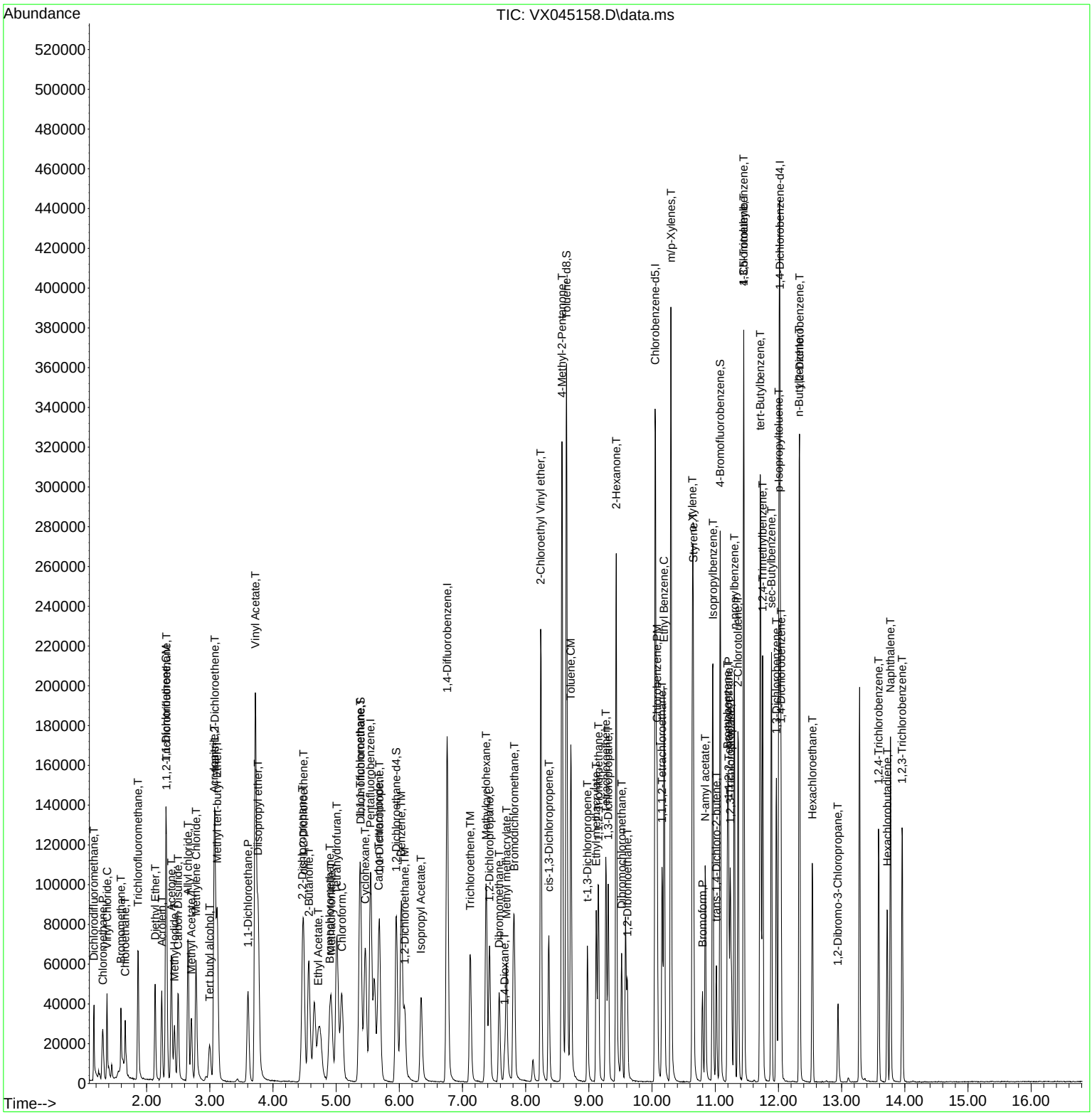
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	101112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	179083	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	156313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	82650	51.389	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.780%			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.000%#			
50) Toluene-d8	8.646	98	230975	53.204	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.400%			
62) 4-Bromofluorobenzene	11.079	95	78735	54.731	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60860	47.817	ug/l	98
3) Chloromethane	1.306	50	74253	47.672	ug/l	95
4) Vinyl Chloride	1.373	62	73181	47.362	ug/l	96
5) Bromomethane	1.593	94	28933	47.633	ug/l	96
6) Chloroethane	1.666	64	39700	55.703	ug/l	98
7) Trichlorofluoromethane	1.873	101	103012	50.360	ug/l	100
8) Diethyl Ether	2.129	74	36356	45.441	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.318	101	60302	51.313	ug/l	99
10) Methyl Iodide	2.440	142	78618	53.532	ug/l	98
11) Tert butyl alcohol	2.983	59	59207	194.348	ug/l	100
12) 1,1-Dichloroethene	2.312	96	86935	69.970	ug/l	94
13) Acrolein	2.239	56	17262	49.018	ug/l	98
14) Allyl chloride	2.654	41	112939	51.066	ug/l	97
15) Acrylonitrile	3.062	53	199269	244.058	ug/l	99
16) Acetone	2.385	43	266010	356.478	ug/l	100
17) Carbon Disulfide	2.501	76	102631	31.014	ug/l	97
18) Methyl Acetate	2.708	43	9884	5.506	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	208471	50.012	ug/l	99
20) Methylene Chloride	2.782	84	70867	47.942	ug/l	97
21) trans-1,2-Dichloroethene	3.086	96	62346	50.793	ug/l	96
22) Diisopropyl ether	3.763	45	220358	48.991	ug/l #	86
24) 1,1-Dichloroethane	3.605	63	126603	50.224	ug/l	99
25) 2-Butanone	4.556	43	325439	289.732	ug/l	99
26) 2,2-Dichloropropane	4.470	77	80790	68.329	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	76731	50.639	ug/l	96
28) Bromochloromethane	4.897	49	62516	52.031	ug/l	99
29) Tetrahydrofuran	5.007	42	191259	253.553	ug/l	99
30) Chloroform	5.092	83	125714	50.192	ug/l	97
31) Cyclohexane	5.464	56	109491	50.038	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	100914	49.885	ug/l	98
36) 1,1-Dichloropropene	5.684	75	83195	50.660	ug/l	98
38) Carbon Tetrachloride	5.671	117	83458	50.057	ug/l	99
39) Methylcyclohexane	7.378	83	103797	52.749	ug/l	99
40) Benzene	6.031	78	268012	51.682	ug/l	99
41) Methacrylonitrile	4.915	41	62416	54.549	ug/l	99
42) 1,2-Dichloroethane	6.080	62	96342	51.592	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Trichloroethene	7.122	130	115549	94.894	ug/l		99
45) 1,2-Dichloropropane	7.427	63	68277	51.209	ug/l		99
46) Dibromomethane	7.580	93	49559	52.588	ug/l		98
47) Bromodichloromethane	7.817	83	76414	41.338	ug/l		97
49) 1,4-Dioxane	7.659	88	30248	913.440	ug/l		96
51) 4-Methyl-2-Pentanone	8.573	43	568444	270.554	ug/l		100
52) Toluene	8.713	92	188456	61.939	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	84014	54.366	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	96507	53.555	ug/l		95
55) 1,1,2-Trichloroethane	9.152	97	29577	23.613	ug/l		95
57) 1,3-Dichloropropane	9.305	76	111722	51.541	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	248600	267.664	ug/l		99
59) 2-Hexanone	9.427	43	417312	274.135	ug/l		99
60) Dibromochloromethane	9.518	129	60250	46.004	ug/l		99
61) 1,2-Dibromoethane	9.610	107	64009	51.190	ug/l		98
64) Tetrachloroethene	9.268	164	89022	88.922	ug/l		97
65) Chlorobenzene	10.079	112	170804	51.641	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	50008	45.401	ug/l		98
67) Ethyl Benzene	10.189	91	306222	53.134	ug/l		99
68) m/p-Xylenes	10.299	106	226689	107.448	ug/l		100
69) o-Xylene	10.640	106	111494	52.398	ug/l		100
70) Styrene	10.652	104	186579	54.191	ug/l		100
71) Bromoform	10.798	173	40798	49.118	ug/l	#	99
73) Isopropylbenzene	10.963	105	285788	54.471	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	75260m	48.104	ug/l		
77) Bromobenzene	11.195	156	64652	52.227	ug/l		99
78) n-propylbenzene	11.304	91	334012	56.356	ug/l		99
79) 2-Chlorotoluene	11.359	91	196885	52.161	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	232590	54.826	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	23264	50.887	ug/l		92
82) 4-Chlorotoluene	11.451	91	222235	54.023	ug/l		100
83) tert-Butylbenzene	11.713	119	200520	46.003	ug/l		90
84) 1,2,4-Trimethylbenzene	11.750	105	233112	54.611	ug/l		100
85) sec-Butylbenzene	11.890	105	291621	55.852	ug/l		99
86) p-Isopropyltoluene	12.006	119	234622	55.603	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	117796	53.341	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	115251	51.585	ug/l		100
89) n-Butylbenzene	12.329	91	210010	57.787	ug/l		99
90) Hexachloroethane	12.536	117	38828	50.874	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	114665	51.761	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	9203	24.536	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	68791	54.535	ug/l		100
94) Hexachlorobutadiene	13.725	225	28043	54.226	ug/l		99
95) Naphthalene	13.774	128	265803	54.845	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	70129	52.700	ug/l		97

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

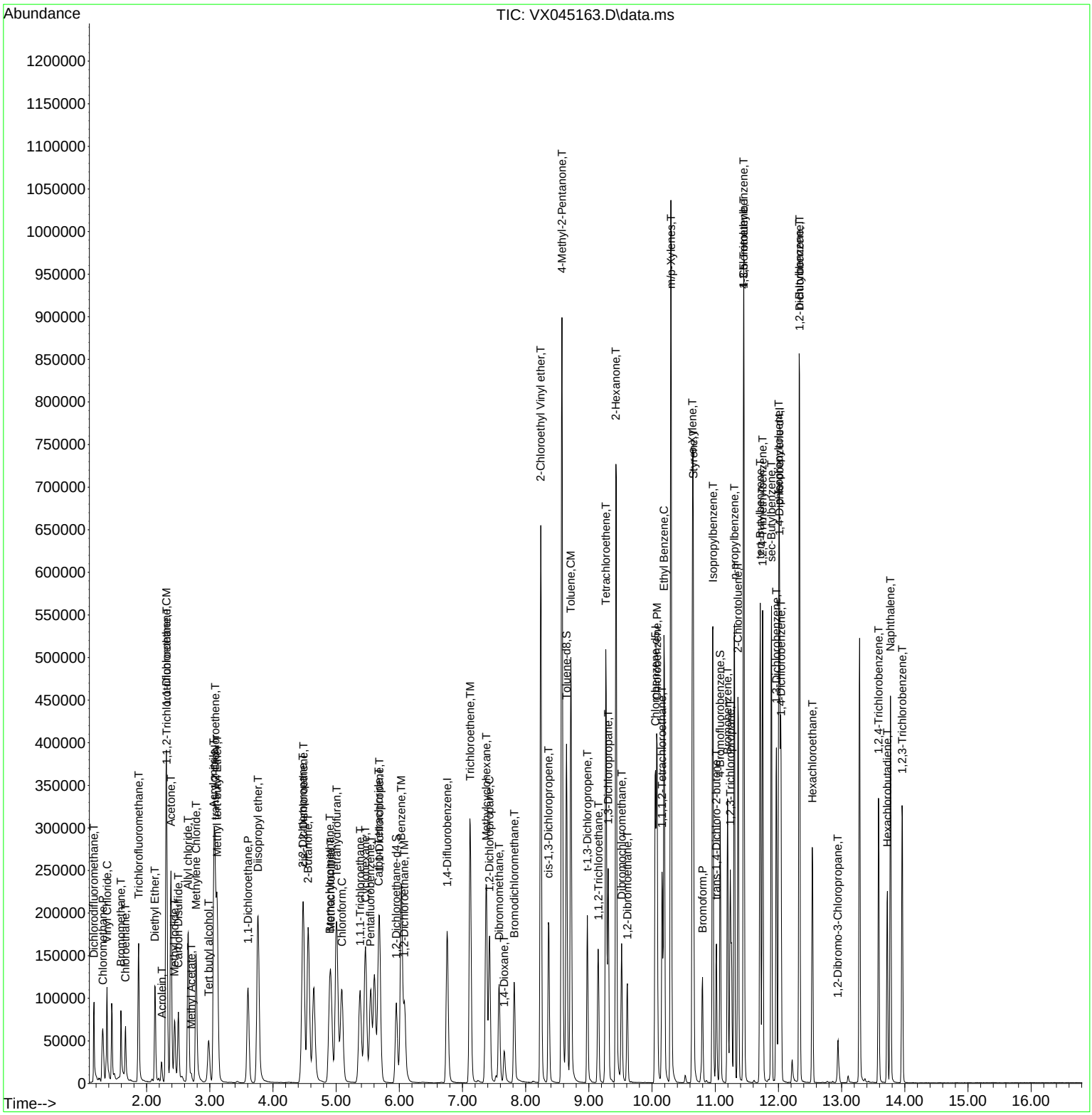
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	100565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	182698	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78636	49.159	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.320%		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	8.647	98	212901	48.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.140%		
62) 4-Bromofluorobenzene	11.079	95	71643	48.816	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.640%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52592	41.546	ug/l	96
3) Chloromethane	1.307	50	67681	43.689	ug/l	100
4) Vinyl Chloride	1.374	62	66508	43.277	ug/l	97
5) Bromomethane	1.593	94	27968	46.294	ug/l	96
6) Chloroethane	1.672	64	37111	52.353	ug/l	99
7) Trichlorofluoromethane	1.874	101	94521	46.461	ug/l	100
8) Diethyl Ether	2.136	74	36224	45.522	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	54209	46.379	ug/l	99
10) Methyl Iodide	2.447	142	73533	50.342	ug/l	99
11) Tert butyl alcohol	2.977	59	59447	196.197	ug/l	99
12) 1,1-Dichloroethene	2.313	96	90255	73.038	ug/l	96
13) Acrolein	2.233	56	16708	47.702	ug/l	98
14) Allyl chloride	2.660	41	111224	50.564	ug/l	98
15) Acrylonitrile	3.062	53	192121	236.583	ug/l	100
16) Acetone	2.380	43	261029	351.705	ug/l	100
17) Carbon Disulfide	2.502	76	86177	26.183	ug/l	99
18) Methyl Acetate	2.709	43	4472	2.505	ug/l #	88
19) Methyl tert-butyl Ether	3.117	73	204923	49.428	ug/l	100
20) Methylene Chloride	2.782	84	68883	46.854	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	60413	49.486	ug/l	97
22) Diisopropyl ether	3.757	45	212844	47.578	ug/l #	84
24) 1,1-Dichloroethane	3.605	63	122367	48.807	ug/l	100
25) 2-Butanone	4.556	43	316746	283.527	ug/l	99
26) 2,2-Dichloropropane	4.465	77	77718	66.088	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	73559	48.810	ug/l	96
28) Bromochloromethane	4.891	49	56433	47.224	ug/l	100
29) Tetrahydrofuran	5.001	42	186941	249.177	ug/l	99
30) Chloroform	5.086	83	121146	48.631	ug/l	99
31) Cyclohexane	5.464	56	98498	45.259	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	99374	49.391	ug/l	98
36) 1,1-Dichloropropene	5.690	75	80938	48.310	ug/l	100
38) Carbon Tetrachloride	5.672	117	80499	47.327	ug/l	99
39) Methylcyclohexane	7.373	83	90498	45.080	ug/l	98
40) Benzene	6.031	78	259017	48.959	ug/l	98
41) Methacrylonitrile	4.916	41	59324	50.821	ug/l	97
42) 1,2-Dichloroethane	6.080	62	94946	49.838	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Trichloroethene	7.123	130	113651	91.488	ug/l		99
45) 1,2-Dichloropropane	7.428	63	65772	48.354	ug/l		98
46) Dibromomethane	7.580	93	48250	50.186	ug/l		99
47) Bromodichloromethane	7.818	83	65772	34.877	ug/l		98
49) 1,4-Dioxane	7.659	88	29006	858.601	ug/l	#	94
51) 4-Methyl-2-Pentanone	8.574	43	554203	258.557	ug/l		99
52) Toluene	8.714	92	180949	58.295	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	80501	51.062	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	92567	50.352	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	19996	15.648	ug/l		97
57) 1,3-Dichloropropane	9.305	76	107755	48.727	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	266560	281.323	ug/l		99
59) 2-Hexanone	9.427	43	411304	264.842	ug/l		99
60) Dibromochloromethane	9.519	129	54948	41.126	ug/l		99
61) 1,2-Dibromoethane	9.610	107	62043	48.636	ug/l		100
64) Tetrachloroethene	9.269	164	84629	85.290	ug/l		99
65) Chlorobenzene	10.079	112	163317	49.819	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	45565	41.737	ug/l		98
67) Ethyl Benzene	10.189	91	291242	50.987	ug/l		99
68) m/p-Xylenes	10.299	106	215055	102.845	ug/l		100
69) o-Xylene	10.640	106	106073	50.296	ug/l		99
70) Styrene	10.653	104	175907	51.549	ug/l		99
71) Bromoform	10.799	173	39363	47.814	ug/l	#	99
73) Isopropylbenzene	10.957	105	270349	50.668	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	73469m	46.175	ug/l		
77) Bromobenzene	11.195	156	62298	49.485	ug/l		100
78) n-propylbenzene	11.299	91	313137	51.952	ug/l		99
79) 2-Chlorotoluene	11.360	91	187387	48.816	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	219930	50.977	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	22368	48.110	ug/l		93
82) 4-Chlorotoluene	11.451	91	210926	50.418	ug/l		100
83) tert-Butylbenzene	11.713	119	191439	43.186	ug/l		90
84) 1,2,4-Trimethylbenzene	11.750	105	224549	51.727	ug/l		100
85) sec-Butylbenzene	11.890	105	274996	51.789	ug/l		99
86) p-Isopropyltoluene	12.006	119	222566	51.865	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	111489	49.643	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	109759	48.307	ug/l		99
89) n-Butylbenzene	12.329	91	198557	53.723	ug/l		99
90) Hexachloroethane	12.536	117	38087	49.070	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	110193	48.912	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6556	17.187	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	64085	49.957	ug/l		99
94) Hexachlorobutadiene	13.725	225	25380	48.257	ug/l		98
95) Naphthalene	13.774	128	258663	52.481	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	68914	50.923	ug/l		98

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

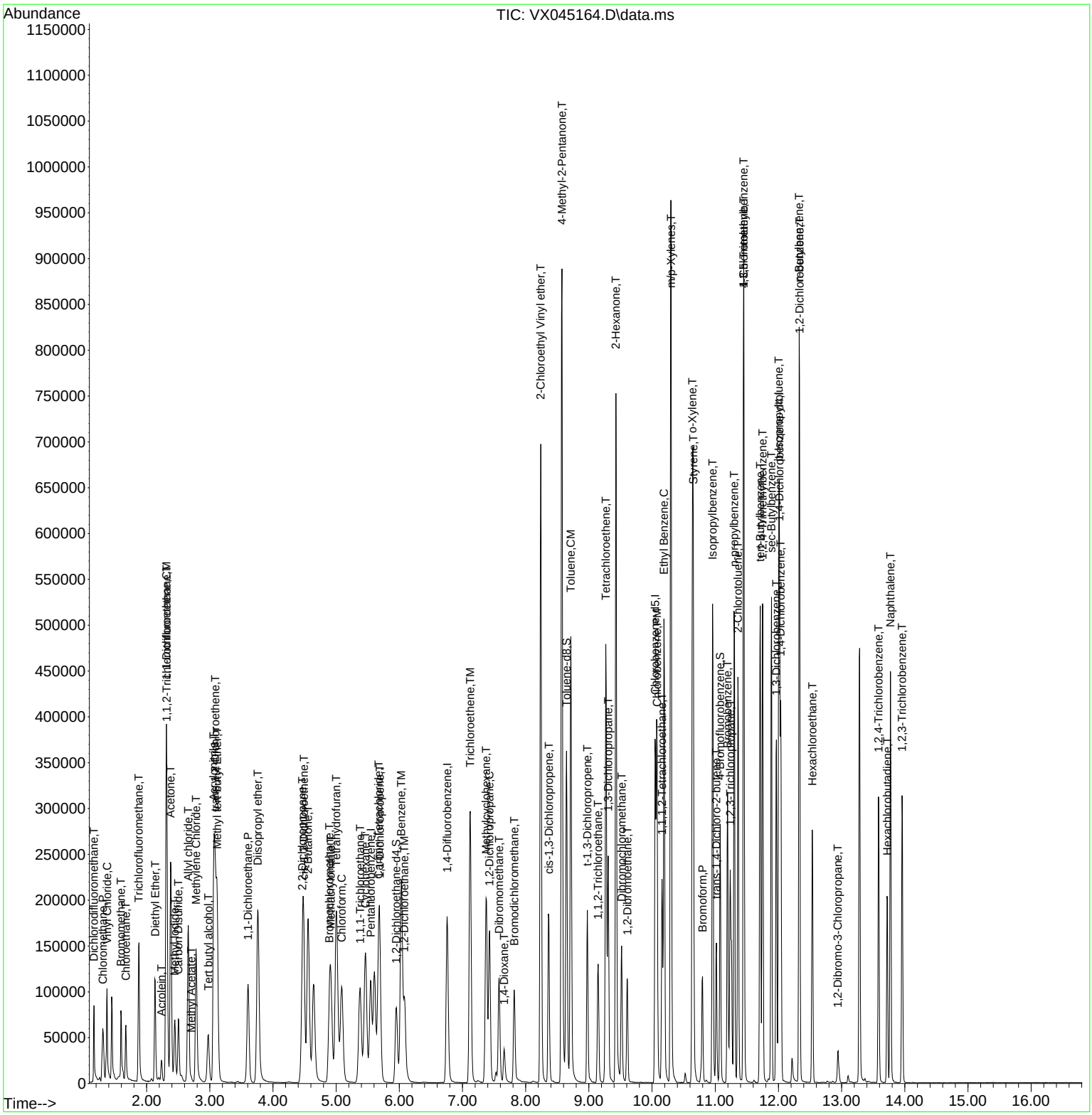
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



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

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX030625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045155.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:16 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
VX0306WBS01	VX045158.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:21 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
Q1501-05MS	VX045163.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:30 AM	MMDadoda	3/10/2025 2:26:56 PM	Peak Integrated by Software
Q1501-06MSD	VX045164.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:34 AM	MMDadoda	3/10/2025 2:26:57 PM	Peak Integrated by Software
VSTDCCC050	VX045181.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:42:04 AM	MMDadoda	3/10/2025 2:27:00 PM	Peak Integrated by Software

Alliance TECHNICAL GROUP
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 # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDICC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDICCC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDICC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045154.D	06 Mar 2025 09:09	JC/MD	Ok
2	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	JC/MD	Ok,M
3	VX0306MBL01	VX045156.D	06 Mar 2025 10:23	JC/MD	Ok
4	VX0306WBL01	VX045157.D	06 Mar 2025 10:46	JC/MD	Ok
5	VX0306WBS01	VX045158.D	06 Mar 2025 11:10	JC/MD	Ok,M
6	Q1501-01	VX045159.D	06 Mar 2025 11:36	JC/MD	Ok
7	Q1501-02	VX045160.D	06 Mar 2025 12:00	JC/MD	Ok
8	Q1488-14DL	VX045161.D	06 Mar 2025 12:23	JC/MD	Ok,M
9	Q1501-04	VX045162.D	06 Mar 2025 12:46	JC/MD	ReRun
10	Q1501-05MS	VX045163.D	06 Mar 2025 13:09	JC/MD	Ok,M
11	Q1501-06MSD	VX045164.D	06 Mar 2025 13:33	JC/MD	Ok,M
12	Q1484-06	VX045165.D	06 Mar 2025 13:56	JC/MD	Ok
13	Q1494-01	VX045166.D	06 Mar 2025 14:19	JC/MD	Ok
14	Q1501-04RE	VX045167.D	06 Mar 2025 14:43	JC/MD	Confirms
15	PB166989TB	VX045168.D	06 Mar 2025 15:06	JC/MD	Ok
16	Q1481-02	VX045169.D	06 Mar 2025 15:29	JC/MD	Ok,M
17	Q1488-02	VX045170.D	06 Mar 2025 15:52	JC/MD	Ok
18	Q1488-04	VX045171.D	06 Mar 2025 16:16	JC/MD	Ok
19	Q1488-06	VX045172.D	06 Mar 2025 16:39	JC/MD	Ok
20	Q1488-08	VX045173.D	06 Mar 2025 17:02	JC/MD	Ok
21	Q1488-10	VX045174.D	06 Mar 2025 17:25	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1488-12	VX045175.D	06 Mar 2025 17:49	JC/MD	Ok
23	Q1490-02	VX045176.D	06 Mar 2025 18:12	JC/MD	Ok
24	Q1494-04	VX045177.D	06 Mar 2025 18:35	JC/MD	Ok
25	Q1494-06	VX045178.D	06 Mar 2025 18:59	JC/MD	Ok
26	Q1494-08	VX045179.D	06 Mar 2025 19:22	JC/MD	Ok
27	Q1478-15	VX045180.D	06 Mar 2025 19:45	JC/MD	Ok
28	VSTDCCC050	VX045181.D	06 Mar 2025 20:09	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
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	VX045154.D	06 Mar 2025 09:09		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	pH#Lot#V12668	JC/MD	Ok,M
3	VX0306MBL01	VX0306MBL01	VX045156.D	06 Mar 2025 10:23		JC/MD	Ok
4	VX0306WBL01	VX0306WBL01	VX045157.D	06 Mar 2025 10:46		JC/MD	Ok
5	VX0306WBS01	VX0306WBS01	VX045158.D	06 Mar 2025 11:10		JC/MD	Ok,M
6	Q1501-01	MW-16B-87.5-030425	VX045159.D	06 Mar 2025 11:36	vial A pH<2	JC/MD	Ok
7	Q1501-02	MW-16B-87.5-030425-I	VX045160.D	06 Mar 2025 12:00	vial A pH<2	JC/MD	Ok
8	Q1488-14DL	ENV-104-GW01DL	VX045161.D	06 Mar 2025 12:23	vial B pH<2	JC/MD	Ok,M
9	Q1501-04	BR-05-465-030525	VX045162.D	06 Mar 2025 12:46	vial A pH<2 Surrogate Fail	JC/MD	ReRun
10	Q1501-05MS	BR-05-465-030525MS	VX045163.D	06 Mar 2025 13:09	vial A pH<2	JC/MD	Ok,M
11	Q1501-06MSD	BR-05-465-030525MSD	VX045164.D	06 Mar 2025 13:33	vial A pH<2	JC/MD	Ok,M
12	Q1484-06	TR-OTR-COMP-01	VX045165.D	06 Mar 2025 13:56	vial A pH#5.0	JC/MD	Ok
13	Q1494-01	PURGE-WATER	VX045166.D	06 Mar 2025 14:19	vial B pH<2	JC/MD	Ok
14	Q1501-04RE	BR-05-465-030525RE	VX045167.D	06 Mar 2025 14:43	vial B pH<2 Surrogate Fail	JC/MD	Confirms
15	PB166989TB	PB166989TB	VX045168.D	06 Mar 2025 15:06		JC/MD	Ok
16	Q1481-02	WC-K1311	VX045169.D	06 Mar 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
17	Q1488-02	ENV-101-SB01	VX045170.D	06 Mar 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1488-04	ENV-101-SB02	VX045171.D	06 Mar 2025 16:16	vial A pH#5.0	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1488-06	ENV-102-SB01	VX045172.D	06 Mar 2025 16:39	vial A pH#5.0	JC/MD	Ok
20	Q1488-08	ENV-102-SB02	VX045173.D	06 Mar 2025 17:02	vial A pH#5.0	JC/MD	Ok
21	Q1488-10	ENV-104-SB01	VX045174.D	06 Mar 2025 17:25	vial A pH#5.0	JC/MD	Ok
22	Q1488-12	ENV-104-SB02	VX045175.D	06 Mar 2025 17:49	vial A pH#5.0	JC/MD	Ok
23	Q1490-02	CLAY-SLUDGE-DRUM	VX045176.D	06 Mar 2025 18:12	vial A pH#5.0	JC/MD	Ok
24	Q1494-04	ASPHALT-SOIL	VX045177.D	06 Mar 2025 18:35	vial A pH#5.0	JC/MD	Ok
25	Q1494-06	SOIL	VX045178.D	06 Mar 2025 18:59	vial A pH#5.0	JC/MD	Ok
26	Q1494-08	SOIL-COMP	VX045179.D	06 Mar 2025 19:22	vial A pH#5.0	JC/MD	Ok
27	Q1478-15	IDW-SO-DRUM-582-02	VX045180.D	06 Mar 2025 19:45	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX045181.D	06 Mar 2025 20:09		JC/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP VOA	8260D			03/06/25	

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TCLP EXTRACTION LOGPAGE

PB166989

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 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 03/05/2025 **Time :** 16:30

End Prep Date : 03/06/2025 **Time :** 10:35

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ VN030625

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

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:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03106125 11:35	JP TCLP ROOM	MD 100 Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166989

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
PB166989TB	LEB989	14	N/A	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1478-15	IDW-SO-DRUM-582-022825	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1481-02	WC-K1311	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1484-06	TR-OTR-COMP-01	03	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-02	ENV-101-SB01	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-04	ENV-101-SB02	05	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-06	ENV-102-SB01	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-08	ENV-102-SB02	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-10	ENV-104-SB01	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-12	ENV-104-SB02	09	25.05	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1490-02	CLAY-SLUDGE-DRUMS	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1494-04	ASPHALT-SOIL	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-06	SOIL	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-08	SOIL-COMP	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166989TB	LEB989	N/A	N/A	N/A	N/A	N/A	N/A
Q1478-15	IDW-SO-DRUM-582-022825	N/A	N/A	N/A	N/A	100	N/A
Q1481-02	WC-K1311	N/A	N/A	N/A	N/A	100	N/A
Q1484-06	TR-OTR-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1490 **WorkList ID :** 188041 **Department :** TCLP Extraction **Date :** 03-05-2025 12:45:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-15	IDW-SO-DRUM-582-022825	Solid	TCLP ZHE Extraction	Cool 4 deg C	JACO05	H31	02/28/2025	1311 ZHE
Q1481-02	WC-K1311	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1484-06	TR-OTR-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1488-02	ENV-101-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1488-04	ENV-101-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-06	ENV-102-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-08	ENV-102-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-10	ENV-104-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-12	ENV-104-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1494-04	ASPHALT-SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311 ZHE
Q1494-06	SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE
Q1494-08	SOIL-COMP	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE

Date/Time 03/05/25 15:30
Raw Sample Received by: JB CWC
Raw Sample Relinquished by:

Date/Time 03/05/25 17:30
Raw Sample Received by:
Raw Sample Relinquished by: JB CWC

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

Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : ENV-101-SB01									
Q1488-01	ENV-101-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	JB	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	n-Hexadecanoic acid	*	350.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Octadecanoic acid	*	110.000	J	0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	1-Heneicosanol	*	300.000	J	0	0	ug/Kg
			Total Tics :		**2,360.00**				
			Total Concentration:		**2,360.00**				
Client ID : ENV-101-SB02									
Q1488-03	ENV-101-SB02	SOIL	1-Heneicosanol	*	170.000	J	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Benzophenone	*	140.000	J	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	JB	0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
			Total Tics :		**1,720.00**				
			Total Concentration:		**1,720.00**				
Client ID : ENV-102-SB01									
Q1488-05	ENV-102-SB01	SOIL	Benzophenone	*	160.000	J	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Heptadecyl heptafluorobutyrate	*	130.000	J	0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	n-Hexadecanoic acid	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,460.00**				
			Total Concentration:		**1,460.00**				
Client ID : ENV-102-SB02									
Q1488-07	ENV-102-SB02	SOIL	1-Docosanol, acetate	*	93.500	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	1-Heneicosanol	*	320.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	n-Hexadecanoic acid	*	870.000	J	0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Octadecanoic acid	*	380.000	J	0	0	ug/Kg
			Total Tics :		**2,873.50**				
			Total Concentration:		**2,873.50**				
Client ID : ENV-104-SB01									
Q1488-09	ENV-104-SB01	SOIL	Fluoranthene		120.000	J	98.8	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Chrysene		98.100	J	96.2	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo(b)fluoranthene		130.000	J	98.1	210	ug/Kg
			Total Svoc :		**348.10**				
Q1488-09	ENV-104-SB01	SOIL	Isoquinoline	*	97.200	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1488-09	ENV-104-SB01	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Pentadecafluorooctanoic acid, oct	*	130.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo[e]pyrene	*	80.600	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,300.000	JB	0	0	ug/Kg
			Total Tics :		**2,117.80**				
			Total Concentration:		**2,465.90**				
Client ID :	**ENV-104-SB02**								
Q1488-11	ENV-104-SB02	SOIL	9,12-Octadecadienoic acid (Z,Z)-,	*	96.300	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	JB	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Octacosanol	*	110.000	J	0	0	ug/Kg
			Total Tics :		**1,816.30**				
			Total Concentration:		**1,816.30**				
Client ID :	**ENV-102-GW01**								
Q1488-13	ENV-102-GW01	WATER	Caprolactam		19.300		2.4	14.3	ug/L
			Total Svoc :		**19.30**				
Q1488-13	ENV-102-GW01	WATER	Cyclopentadecane	*	4.600	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanedioic acid, mono(2-ethylhe	*	7.500	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanoic acid, 2-ethyl-	*	5.800	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	3.300	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	n-Hexadecanoic acid	*	15.900	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Nonanoic acid	*	5.800	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octadecanoic acid	*	4.500	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octanoic acid	*	3.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Supraene	*	3.200	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	1-Hexanol, 2-ethyl-	*	14.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2,2,4-Trimethyl-1,3-pentanediol d	*	4.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	5.300	A	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Adipic acid, 2-decyl isobutyl ester	*	74.100	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Benzophenone	*	16.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	140.000	J	0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butyl citrate	*	3.800	J	0	0	ug/L
			Total Tics :		**311.00**				
			Total Concentration:		**330.30**				
Client ID :	**ENV-104-GW01**								
Q1488-14	ENV-104-GW01	WATER	Caprolactam		58.600		2.9	17.5	ug/L
			Total Svoc :		**58.60**				

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Q1488-14	ENV-104-GW01	WATER	Benzophenone	*	15.500	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	200.000	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butyl citrate	*	5.000	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Ethanol, 2-butoxy-	*	8.500	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Hexanoic acid, 2-ethyl-	*	4.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	n-Hexadecanoic acid	*	17.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Octadecanoic acid	*	4.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Supraene	*	5.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Heneicosanol	*	5.100	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Hexanol, 2-ethyl-	*	6.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2,2,4-Trimethyl-1,3-pentanediol d	*	5.400	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	14.100	A	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-ethoxypropoxy)-	*	30.600	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxy-1-meth	*	34.400	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxypropoxy	*	48.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Adipic acid, butyl non-5-yn-3-yl e	*	73.800	J	0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Benzoic acid	*	15.800	J	9.6	17.5	ug/L
			Total Tics :		**499.80**				
			Total Concentration:		**558.40**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.1	U	94.1	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.7	U	96.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.5	U	98.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.4	U	91.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.1	U	95.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	88.9	U	88.9	190	ug/Kg
118-74-1	Hexachlorobenzene	95.8	U	95.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.1	U	87.1	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.1	U	95.1	190	ug/Kg
86-74-8	Carbazole	90.5	U	90.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.0	U	95.0	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.6	U	89.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.4	U	91.4	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.0	U	88.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.5	U	91.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.1		30 (15) - 130 (107)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.7		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.4		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	59.6		30 (10) - 130 (105)	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.886			
1146-65-2	Naphthalene-d8	615000	8.163			
15067-26-2	Acenaphthene-d10	337000	9.916			
1517-22-2	Phenanthrene-d10	606000	11.404			
1719-03-5	Chrysene-d12	545000	14.039			
1520-96-3	Perylene-d12	451000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB		2.17	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	110	J		12.7	ug/Kg
015594-90-8	1-Heneicosanol	300	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.4	U	91.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.3	U	92.3	190	ug/Kg
95-57-8	2-Chlorophenol	92.1	U	92.1	190	ug/Kg
95-48-7	2-Methylphenol	88.9	U	88.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	95.9	U	95.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.0	U	88.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.5	U	44.5	88.2	ug/Kg
67-72-1	Hexachloroethane	91.6	U	91.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	93.3	U	93.3	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.6	U	94.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.3	U	83.3	190	ug/Kg
91-20-3	Naphthalene	91.1	U	91.1	190	ug/Kg
106-47-8	4-Chloroaniline	91.1	UQ	91.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.9	U	91.9	190	ug/Kg
105-60-2	Caprolactam	95.7	U	95.7	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.5	U	85.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.0	U	91.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.8	U	78.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.6	U	81.6	190	ug/Kg
92-52-4	1,1-Biphenyl	96.4	U	96.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.9	U	91.9	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	90.1	U	90.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.4	U	95.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.8	U	91.8	190	ug/Kg
99-09-2	3-Nitroaniline	98.4	UQ	98.4	190	ug/Kg
83-32-9	Acenaphthene	89.5	U	89.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	93.1	U	93.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.1	U	95.1	190	ug/Kg
84-66-2	Diethylphthalate	88.4	U	88.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.4	U	94.4	190	ug/Kg
86-73-7	Fluorene	94.3	U	94.3	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.0	U	90.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.0	U	87.0	190	ug/Kg
118-74-1	Hexachlorobenzene	93.8	U	93.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.3	U	85.3	360	ug/Kg
85-01-8	Phenanthrene	92.7	U	92.7	190	ug/Kg
120-12-7	Anthracene	93.1	U	93.1	190	ug/Kg
86-74-8	Carbazole	88.6	U	88.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.0	U	93.0	190	ug/Kg
206-44-0	Fluoranthene	90.1	U	90.1	190	ug/Kg
129-00-0	Pyrene	91.6	U	91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	89.0	U	89.0	190	ug/Kg
218-01-9	Chrysene	87.7	U	87.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	89.5	U	89.5	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.1	U	91.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.1	U	86.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.6	U	89.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.4	U	88.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.7	U	95.7	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.4	U	82.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	94.6		30 (15) - 130 (107)	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.2		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.8		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.2		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	47.6		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	181000	6.887			
1146-65-2	Naphthalene-d8	686000	8.163			
15067-26-2	Acenaphthene-d10	338000	9.916			
1517-22-2	Phenanthrene-d10	508000	11.404			
1719-03-5	Chrysene-d12	420000	14.033			
1520-96-3	Perylene-d12	463000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	JB		2.17	ug/Kg
000119-61-9	Benzophenone	140	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
015594-90-8	1-Heneicosanol	170	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	96.5	U	96.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	97.4	U	97.4	200	ug/Kg
95-57-8	2-Chlorophenol	97.2	U	97.2	200	ug/Kg
95-48-7	2-Methylphenol	93.8	U	93.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	92.9	U	92.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.9	U	46.9	93.1	ug/Kg
67-72-1	Hexachloroethane	96.6	U	96.6	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	98.5	U	98.5	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	99.9	U	99.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	87.9	U	87.9	200	ug/Kg
91-20-3	Naphthalene	96.1	U	96.1	200	ug/Kg
106-47-8	4-Chloroaniline	96.1	UQ	96.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	96.9	U	96.9	200	ug/Kg
105-60-2	Caprolactam	100	U	100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	90.2	U	90.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	96.0	U	96.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	83.1	U	83.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	86.1	U	86.1	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	96.9	U	96.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	95.1	U	95.1	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	96.8	U	96.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	94.4	U	94.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	98.2	U	98.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	93.2	U	93.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	99.6	U	99.6	200	ug/Kg
86-73-7	Fluorene	99.5	U	99.5	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	95.0	U	95.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	91.8	U	91.8	200	ug/Kg
118-74-1	Hexachlorobenzene	98.9	U	98.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	90.0	U	90.0	380	ug/Kg
85-01-8	Phenanthrene	97.8	U	97.8	200	ug/Kg
120-12-7	Anthracene	98.2	U	98.2	200	ug/Kg
86-74-8	Carbazole	93.4	U	93.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	98.1	U	98.1	200	ug/Kg
206-44-0	Fluoranthene	95.1	U	95.1	200	ug/Kg
129-00-0	Pyrene	96.6	U	96.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	93.9	U	93.9	200	ug/Kg
218-01-9	Chrysene	92.5	U	92.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	94.4	U	94.4	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	96.1	U	96.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90.9	U	90.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	94.5	U	94.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	93.2	U	93.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.9	U	86.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.9		30 (18) - 130 (112)	59%	SPK: 150
13127-88-3	Phenol-d6	84.2		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.7		30 (18) - 130 (107)	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.2		30 (20) - 130 (109)	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.1		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	48.0		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	6.886			
1146-65-2	Naphthalene-d8	748000	8.163			
15067-26-2	Acenaphthene-d10	374000	9.916			
1517-22-2	Phenanthrene-d10	582000	11.404			
1719-03-5	Chrysene-d12	429000	14.039			
1520-96-3	Perylene-d12	510000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB		2.16	ug/Kg
000119-61-9	Benzophenone	160	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	130	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	U	230	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	100	U	100	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	99.5	U	99.5	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	50.2	U	50.2	99.7	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	110	U	110	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	94.1	U	94.1	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	96.6	U	96.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	89.0	U	89.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	92.2	U	92.2	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	100	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	110	U	110	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	99.8	U	99.8	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	98.3	U	98.3	210	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	96.3	U	96.3	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	110	U	110	210	ug/Kg
86-74-8	Carbazole	100	U	100	210	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
218-01-9	Chrysene	99.1	U	99.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	97.3	U	97.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	99.8	U	99.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	93.1	U	93.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.7		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.5		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.1		30 (18) - 130 (107)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.3		30 (20) - 130 (109)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	58.4		30 (10) - 130 (105)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.887			
1146-65-2	Naphthalene-d8	640000	8.163			
15067-26-2	Acenaphthene-d10	350000	9.916			
1517-22-2	Phenanthrene-d10	622000	11.404			
1719-03-5	Chrysene-d12	548000	14.039			
1520-96-3	Perylene-d12	480000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB		2.16	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	870	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	380	J		12.7	ug/Kg
015594-90-8	1-Heneicosanol	320	J		13.9	ug/Kg
000822-26-4	1-Docosanol, acetate	93.5	J		16.1	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	97.5	U	97.5	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	96.5	U	96.5	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	48.7	U	48.7	96.8	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.3	U	91.3	210	ug/Kg
91-20-3	Naphthalene	99.9	U	99.9	210	ug/Kg
106-47-8	4-Chloroaniline	99.9	UQ	99.9	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	100	U	100	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	93.7	U	93.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	99.8	U	99.8	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.4	U	86.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	89.5	U	89.5	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	210	ug/Kg
131-11-3	Dimethylphthalate	98.8	U	98.8	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.1	U	98.1	210	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	96.9	U	96.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.7	U	98.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	95.4	U	95.4	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	93.5	U	93.5	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.1	U	97.1	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	120	J	98.8	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	97.6	U	97.6	210	ug/Kg
218-01-9	Chrysene	98.1	J	96.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	98.1	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	99.9	U	99.9	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.5	U	94.5	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.2	U	98.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.9	U	96.9	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.3	U	90.3	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.9		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	83.5		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.5		30 (20) - 130 (109)	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.7		30 (10) - 130 (116)	54%	SPK: 150
1718-51-0	Terphenyl-d14	36.3		30 (10) - 130 (105)	36%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	193000	6.887			
1146-65-2	Naphthalene-d8	726000	8.163			
15067-26-2	Acenaphthene-d10	362000	9.916			
1517-22-2	Phenanthrene-d10	552000	11.404			
1719-03-5	Chrysene-d12	436000	14.033			
1520-96-3	Perylene-d12	488000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1300	JB		2.17	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
000119-65-3	Isoquinoline	97.2	J		12.1	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	130	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	80.6	J		15.4	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	99.1	U	99.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	98.1	U	98.1	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.6	U	49.6	98.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	92.8	U	92.8	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	95.3	U	95.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	87.8	U	87.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.0	U	91.0	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	99.7	U	99.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	98.5	U	98.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.0	U	97.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	95.1	U	95.1	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	98.8	U	98.8	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	99.2	U	99.2	210	ug/Kg
218-01-9	Chrysene	97.8	U	97.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.7	U	99.7	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	96.0	U	96.0	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	99.9	U	99.9	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	98.5	U	98.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	91.9	U	91.9	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.0		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	84.3		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.1		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.0		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	200000	6.886			
1146-65-2	Naphthalene-d8	760000	8.163			
15067-26-2	Acenaphthene-d10	390000	9.916			
1517-22-2	Phenanthrene-d10	615000	11.404			
1719-03-5	Chrysene-d12	463000	14.039			
1520-96-3	Perylene-d12	513000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	JB		2.17	ug/Kg
000119-61-9	Benzophenone	180	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
000112-63-0	9,12-Octadecadienoic acid (Z,Z)-,	96.3	J		12.5	ug/Kg
000557-61-9	Octacosanol	110	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	5.70	U	5.70	14.3	ug/L
108-95-2	Phenol	1.30	U	1.30	7.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.70	U	1.70	7.10	ug/L
95-57-8	2-Chlorophenol	1.00	U	1.00	7.10	ug/L
95-48-7	2-Methylphenol	1.60	U	1.60	7.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.90	U	1.90	7.10	ug/L
98-86-2	Acetophenone	1.60	U	1.60	7.10	ug/L
65794-96-9	3+4-Methylphenols	1.60	U	1.60	14.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.10	U	2.10	3.60	ug/L
67-72-1	Hexachloroethane	1.40	U	1.40	7.10	ug/L
98-95-3	Nitrobenzene	1.80	U	1.80	7.10	ug/L
78-59-1	Isophorone	1.60	U	1.60	7.10	ug/L
88-75-5	2-Nitrophenol	2.80	U	2.80	7.10	ug/L
105-67-9	2,4-Dimethylphenol	2.20	U	2.20	7.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.50	U	1.50	7.10	ug/L
120-83-2	2,4-Dichlorophenol	1.30	U	1.30	7.10	ug/L
91-20-3	Naphthalene	1.50	U	1.50	7.10	ug/L
106-47-8	4-Chloroaniline	1.90	UQ	1.90	7.10	ug/L
87-68-3	Hexachlorobutadiene	1.80	U	1.80	7.10	ug/L
105-60-2	Caprolactam	19.3		2.40	14.3	ug/L
59-50-7	4-Chloro-3-methylphenol	1.20	U	1.20	7.10	ug/L
91-57-6	2-Methylnaphthalene	1.60	U	1.60	7.10	ug/L
77-47-4	Hexachlorocyclopentadiene	7.20	U	7.20	14.3	ug/L
88-06-2	2,4,6-Trichlorophenol	1.30	U	1.30	7.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.40	U	1.40	7.10	ug/L
92-52-4	1,1-Biphenyl	1.30	U	1.30	7.10	ug/L
91-58-7	2-Chloronaphthalene	1.40	U	1.40	7.10	ug/L
88-74-4	2-Nitroaniline	2.00	U	2.00	7.10	ug/L
131-11-3	Dimethylphthalate	1.30	U	1.30	7.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.50	U	1.50	7.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.80	U	1.80	7.10	ug/L
99-09-2	3-Nitroaniline	2.00	UQ	2.00	7.10	ug/L
83-32-9	Acenaphthene	1.20	U	1.20	7.10	ug/L
51-28-5	2,4-Dinitrophenol	9.20	U	9.20	14.3	ug/L
100-02-7	4-Nitrophenol	2.90	U	2.90	14.3	ug/L
132-64-9	Dibenzofuran	1.30	U	1.30	7.10	ug/L
121-14-2	2,4-Dinitrotoluene	2.20	U	2.20	7.10	ug/L
84-66-2	Diethylphthalate	1.50	U	1.50	7.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.40	U	1.40	7.10	ug/L
86-73-7	Fluorene	1.40	U	1.40	7.10	ug/L
100-01-6	4-Nitroaniline	2.90	U	2.90	7.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	4.40	U	4.40	14.3	ug/L
86-30-6	n-Nitrosodiphenylamine	1.30	U	1.30	7.10	ug/L
101-55-3	4-Bromophenyl-phenylether	1.40	U	1.40	7.10	ug/L
118-74-1	Hexachlorobenzene	1.60	U	1.60	7.10	ug/L
1912-24-9	Atrazine	1.80	U	1.80	7.10	ug/L
87-86-5	Pentachlorophenol	2.60	U	2.60	14.3	ug/L
85-01-8	Phenanthrene	1.30	U	1.30	7.10	ug/L
120-12-7	Anthracene	1.50	U	1.50	7.10	ug/L
86-74-8	Carbazole	1.60	U	1.60	7.10	ug/L
84-74-2	Di-n-butylphthalate	2.10	U	2.10	7.10	ug/L
206-44-0	Fluoranthene	1.80	U	1.80	7.10	ug/L
129-00-0	Pyrene	1.50	U	1.50	7.10	ug/L
85-68-7	Butylbenzylphthalate	3.00	U	3.00	7.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.80	UQ	1.80	14.3	ug/L
56-55-3	Benzo(a)anthracene	1.30	U	1.30	7.10	ug/L
218-01-9	Chrysene	1.20	U	1.20	7.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.70	U	2.70	7.10	ug/L
117-84-0	Di-n-octyl phthalate	3.60	U	3.60	14.3	ug/L
205-99-2	Benzo(b)fluoranthene	1.60	U	1.60	7.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.70	U	1.70	7.10	ug/L
50-32-8	Benzo(a)pyrene	2.40	U	2.40	7.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.50	U	1.50	7.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.60	U	1.60	7.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.70	U	1.70	7.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.60	U	1.60	7.10	ug/L
123-91-1	1,4-Dioxane	1.80	U	1.80	7.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.10	U	1.10	7.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	82.7		15 (10) - 110 (139)	55%	SPK: 150
13127-88-3	Phenol-d6	55.0		15 (10) - 110 (134)	37%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	87.7		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.887			
1146-65-2	Naphthalene-d8	632000	8.163			
15067-26-2	Acenaphthene-d10	343000	9.916			
1517-22-2	Phenanthrene-d10	586000	11.404			
1719-03-5	Chrysene-d12	449000	14.039			
1520-96-3	Perylene-d12	461000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	140	J		2.16	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.30	A		5.10	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	14.1	J		6.94	ug/L
000149-57-5	Hexanoic acid, 2-ethyl-	5.80	J		7.53	ug/L
000124-07-2	Octanoic acid	3.00	J		7.88	ug/L
000112-05-0	Nonanoic acid	5.80	J		8.50	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	4.10	J		10.3	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000119-61-9	Benzophenone	16.0	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	3.30	J		10.9	ug/L
004337-65-9	Hexanedioic acid, mono(2-ethylhexy	7.50	J		11.5	ug/L
000057-10-3	n-Hexadecanoic acid	15.9	J		11.9	ug/L
000077-94-1	Butyl citrate	3.80	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.50	J		12.7	ug/L
1000353-59-6	Adipic acid, 2-decyl isobutyl ester	74.1	J		12.8	ug/L
000295-48-7	Cyclopentadecane	4.60	J		13.9	ug/L
007683-64-9	Supraene	3.20	J		14.9	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.00	U	7.00	17.5	ug/L
108-95-2	Phenol	1.60	U	1.60	8.80	ug/L
111-44-4	bis(2-Chloroethyl)ether	2.10	U	2.10	8.80	ug/L
95-57-8	2-Chlorophenol	1.20	U	1.20	8.80	ug/L
95-48-7	2-Methylphenol	2.00	U	2.00	8.80	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	2.40	U	2.40	8.80	ug/L
98-86-2	Acetophenone	1.90	U	1.90	8.80	ug/L
65794-96-9	3+4-Methylphenols	2.00	U	2.00	17.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	2.60	4.40	ug/L
67-72-1	Hexachloroethane	1.80	U	1.80	8.80	ug/L
98-95-3	Nitrobenzene	2.20	U	2.20	8.80	ug/L
78-59-1	Isophorone	2.00	U	2.00	8.80	ug/L
88-75-5	2-Nitrophenol	3.40	U	3.40	8.80	ug/L
105-67-9	2,4-Dimethylphenol	2.60	U	2.60	8.80	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.80	U	1.80	8.80	ug/L
120-83-2	2,4-Dichlorophenol	1.50	U	1.50	8.80	ug/L
91-20-3	Naphthalene	1.80	U	1.80	8.80	ug/L
106-47-8	4-Chloroaniline	2.30	UQ	2.30	8.80	ug/L
87-68-3	Hexachlorobutadiene	2.20	U	2.20	8.80	ug/L
105-60-2	Caprolactam	58.6		2.90	17.5	ug/L
59-50-7	4-Chloro-3-methylphenol	1.50	U	1.50	8.80	ug/L
91-57-6	2-Methylnaphthalene	2.00	U	2.00	8.80	ug/L
77-47-4	Hexachlorocyclopentadiene	8.80	U	8.80	17.5	ug/L
88-06-2	2,4,6-Trichlorophenol	1.60	U	1.60	8.80	ug/L
95-95-4	2,4,5-Trichlorophenol	1.80	U	1.80	8.80	ug/L
92-52-4	1,1-Biphenyl	1.60	U	1.60	8.80	ug/L
91-58-7	2-Chloronaphthalene	1.70	U	1.70	8.80	ug/L
88-74-4	2-Nitroaniline	2.50	U	2.50	8.80	ug/L
131-11-3	Dimethylphthalate	1.60	U	1.60	8.80	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.80	U	1.80	8.80	ug/L
606-20-2	2,6-Dinitrotoluene	2.20	U	2.20	8.80	ug/L
99-09-2	3-Nitroaniline	2.40	UQ	2.40	8.80	ug/L
83-32-9	Acenaphthene	1.40	U	1.40	8.80	ug/L
51-28-5	2,4-Dinitrophenol	11.3	U	11.3	17.5	ug/L
100-02-7	4-Nitrophenol	3.50	U	3.50	17.5	ug/L
132-64-9	Dibenzofuran	1.60	U	1.60	8.80	ug/L
121-14-2	2,4-Dinitrotoluene	2.70	U	2.70	8.80	ug/L
84-66-2	Diethylphthalate	1.80	U	1.80	8.80	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.70	U	1.70	8.80	ug/L
86-73-7	Fluorene	1.70	U	1.70	8.80	ug/L
100-01-6	4-Nitroaniline	3.60	U	3.60	8.80	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.40	U	5.40	17.5	ug/L
86-30-6	n-Nitrosodiphenylamine	1.60	U	1.60	8.80	ug/L
101-55-3	4-Bromophenyl-phenylether	1.70	U	1.70	8.80	ug/L
118-74-1	Hexachlorobenzene	2.00	U	2.00	8.80	ug/L
1912-24-9	Atrazine	2.20	U	2.20	8.80	ug/L
87-86-5	Pentachlorophenol	3.20	U	3.20	17.5	ug/L
85-01-8	Phenanthrene	1.60	U	1.60	8.80	ug/L
120-12-7	Anthracene	1.90	U	1.90	8.80	ug/L
86-74-8	Carbazole	2.00	U	2.00	8.80	ug/L
84-74-2	Di-n-butylphthalate	2.60	U	2.60	8.80	ug/L
206-44-0	Fluoranthene	2.30	U	2.30	8.80	ug/L
129-00-0	Pyrene	1.90	U	1.90	8.80	ug/L
85-68-7	Butylbenzylphthalate	3.70	U	3.70	8.80	ug/L
91-94-1	3,3-Dichlorobenzidine	2.20	UQ	2.20	17.5	ug/L
56-55-3	Benzo(a)anthracene	1.60	U	1.60	8.80	ug/L
218-01-9	Chrysene	1.50	U	1.50	8.80	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.30	U	3.30	8.80	ug/L
117-84-0	Di-n-octyl phthalate	4.40	U	4.40	17.5	ug/L
205-99-2	Benzo(b)fluoranthene	2.00	U	2.00	8.80	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	2.10	U	2.10	8.80	ug/L
50-32-8	Benzo(a)pyrene	2.90	U	2.90	8.80	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	1.80	8.80	ug/L
53-70-3	Dibenzo(a,h)anthracene	2.00	U	2.00	8.80	ug/L
191-24-2	Benzo(g,h,i)perylene	2.10	U	2.10	8.80	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.90	U	1.90	8.80	ug/L
123-91-1	1,4-Dioxane	2.20	U	2.20	8.80	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.40	U	1.40	8.80	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	105		15 (10) - 110 (139)	70%	SPK: 150
13127-88-3	Phenol-d6	72.9		15 (10) - 110 (134)	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	134	*	30 (49) - 130 (133)	134%	SPK: 100
321-60-8	2-Fluorobiphenyl	114		30 (52) - 130 (132)	114%	SPK: 100
118-79-6	2,4,6-Tribromophenol	211	*	15 (44) - 110 (137)	140%	SPK: 150
1718-51-0	Terphenyl-d14	108		30 (48) - 130 (125)	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.887			
1146-65-2	Naphthalene-d8	541000	8.163			
15067-26-2	Acenaphthene-d10	290000	9.916			
1517-22-2	Phenanthrene-d10	493000	11.404			
1719-03-5	Chrysene-d12	387000	14.039			
1520-96-3	Perylene-d12	390000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	200	J		2.17	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	14.1	A		5.10	ug/L
000111-76-2	Ethanol, 2-butoxy-	8.50	J		5.83	ug/L
020324-32-7	2-Propanol, 1-(2-methoxy-1-methyle	34.4	J		6.69	ug/L
010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	30.6	J		6.72	ug/L
013429-07-7	2-Propanol, 1-(2-methoxypropoxy)-	48.8	J		6.81	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	6.60	J		6.94	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000149-57-5	Hexanoic acid, 2-ethyl-	4.60	J		7.52	ug/L
65-85-0	Benzoic acid	15.8	J		7.90	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	5.40	J		10.3	ug/L
000119-61-9	Benzophenone	15.5	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.10	J		10.9	ug/L
000057-10-3	n-Hexadecanoic acid	17.6	J		11.9	ug/L
000077-94-1	Butyl citrate	5.00	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.80	J		12.7	ug/L
1000324-32-5	Adipic acid, butyl non-5-yn-3-yl ester	73.8	J		12.8	ug/L
015594-90-8	1-Heneicosanol	5.10	J		13.9	ug/L
007683-64-9	Supraene	5.10	J		14.9	ug/L

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

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166982BL	PB166982BL	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	123	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.9	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	172	115	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.1	87		30 (48)	130 (125)
PB166982BS	PB166982BS	2-Fluorophenol	150	131	87		15 (10)	110 (139)
		Phenol-d6	150	124	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	177	118	*	15 (44)	110 (137)
		Terphenyl-d14	100	99.9	100		30 (48)	130 (125)
PB166982BSD	PB166982BSD	2-Fluorophenol	150	128	85		15 (10)	110 (139)
		Phenol-d6	150	122	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.0	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	95.1	95		30 (48)	130 (125)
Q1488-13	ENV-102-GW01	2-Fluorophenol	150	82.7	55		15 (10)	110 (139)
		Phenol-d6	150	55.0	37		15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.7	88		30 (48)	130 (125)
Q1488-14	ENV-104-GW01	2-Fluorophenol	150	105	70		15 (10)	110 (139)
		Phenol-d6	150	72.9	49		15 (10)	110 (134)
		Nitrobenzene-d5	100	134	134	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	114	114		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	211	140	*	15 (44)	110 (137)
		Terphenyl-d14	100	108	108		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.5	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	167	111		30 (10)	130 (116)
		Terphenyl-d14	100	82.5	83		30 (10)	130 (105)
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.3	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	166	110		30 (10)	130 (116)
		Terphenyl-d14	100	94.9	95		30 (10)	130 (105)
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		30 (18)	130 (112)
		Phenol-d6	150	102	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.4	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.3	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	113	76		30 (10)	130 (116)
		Terphenyl-d14	100	55.5	56		30 (10)	130 (105)
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		30 (18)	130 (112)
		Phenol-d6	150	104	70		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.9	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	117	78		30 (10)	130 (116)
		Terphenyl-d14	100	56.9	57		30 (10)	130 (105)
Q1488-01	ENV-101-SB01	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.1	65		30 (15)	130 (107)
		Nitrobenzene-d5	100	83.7	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	70.4	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	84		30 (10)	130 (116)
		Terphenyl-d14	100	59.6	60		30 (10)	130 (105)
Q1488-03	ENV-101-SB02	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	94.6	63		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.2	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.8	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.2	64		30 (10)	130 (116)
		Terphenyl-d14	100	47.6	48		30 (10)	130 (105)
Q1488-05	ENV-102-SB01	2-Fluorophenol	150	87.9	59		30 (18)	130 (112)
		Phenol-d6	150	84.2	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.7	73		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.2	64		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	86.1	57		30 (10)	130 (116)
		Terphenyl-d14	100	48.0	48		30 (10)	130 (105)
Q1488-07	ENV-102-SB02	2-Fluorophenol	150	91.7	61		30 (18)	130 (112)
		Phenol-d6	150	90.5	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	77.1	77		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.3	68		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	118	78		30 (10)	130 (116)
		Terphenyl-d14	100	58.4	58		30 (10)	130 (105)
Q1488-09	ENV-104-SB01	2-Fluorophenol	150	86.9	58		30 (18)	130 (112)
		Phenol-d6	150	83.5	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.1	72		30 (18)	130 (107)

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Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1488-09	ENV-104-SB01	2-Fluorobiphenyl	100	55.5	56		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	81.7	54		30 (10)	130 (116)
		Terphenyl-d14	100	36.3	36		30 (10)	130 (105)
Q1488-11	ENV-104-SB02	2-Fluorophenol	150	87.0	58		30 (18)	130 (112)
		Phenol-d6	150	84.3	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.1	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	92.0	61		30 (10)	130 (116)
		Terphenyl-d14	100	40.9	41		30 (10)	130 (105)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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: Q1487-01MS		**Client Sample ID: DN-B-42MS**						**DataFile: BF141844.D**			
Benzaldehyde	1900	0	850	ug/Kg	45				20 (10)	160 (86)	
Phenol	1900	0	1600	ug/Kg	84				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1600	ug/Kg	84				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				70 (65)	130 (110)	
Acetophenone	1900	0	1700	ug/Kg	89				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				70 (59)	130 (119)	
Hexachloroethane	1900	0	1600	ug/Kg	84				20 (65)	160 (117)	
Nitrobenzene	1900	0	1800	ug/Kg	95				70 (70)	130 (119)	
Isophorone	1900	0	1600	ug/Kg	84				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1900	ug/Kg	100				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (118)	
Naphthalene	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
4-Chloroaniline	1900	0	910	ug/Kg	48	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1900	ug/Kg	100				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1900	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70 (70)	130 (113)	
Acenaphthylene	1900	0	1700	ug/Kg	89				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	1900	0	1300	ug/Kg	68	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1700	ug/Kg	89				70 (70)	130 (121)	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				20 (10)	160 (155)	
4-Nitrophenol	3800	0	4200	ug/Kg	111				20 (45)	160 (133)	
Dibenzofuran	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				70 (55)	130 (128)	
Diethylphthalate	1900	0	1500	ug/Kg	79				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				70 (71)	130 (108)	
Fluorene	1900	0	1600	ug/Kg	84				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1900	ug/Kg	100				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	2400	ug/Kg	126				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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	3800	0	3200	ug/Kg	84				20 (47)	160 (128)	
Phenanthrene	1900	0	1700	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1900	0	1700	ug/Kg	89				70 (62)	130 (124)	
Carbazole	1900	0	1700	ug/Kg	89				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				70 (69)	130 (118)	
Fluoranthene	1900	0	1500	ug/Kg	79				70 (44)	130 (125)	
Pyrene	1900	0	1400	ug/Kg	74				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				70 (71)	130 (114)	
Chrysene	1900	0	1600	ug/Kg	84				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*			70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68	*			70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1600	ug/Kg	84				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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: Q1487-01MSD		**Client Sample ID: DN-B-42MSD**						**DataFile: BF141845.D**			
Benzaldehyde	1900	0	860	ug/Kg	45		0		20 (10)	160 (86)	30 (20)
Phenol	1900	0	1700	ug/Kg	89		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	1700	ug/Kg	89		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1600	ug/Kg	84		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74		0		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1800	ug/Kg	95		7		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1600	ug/Kg	84		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1600	ug/Kg	84		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1800	ug/Kg	95		0		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	1600	ug/Kg	84		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	1900	ug/Kg	100		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84		0		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	950	ug/Kg	50	*	4		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		0		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1900	ug/Kg	100		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129		2		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95		7		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1900	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	1800	ug/Kg	95		7		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	1400	ug/Kg	74		8		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74		4		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3800	0	4300	ug/Kg	113		2		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111		6		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	1500	ug/Kg	79		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		6		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1600	ug/Kg	84		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89		7		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2400	ug/Kg	126		0		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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	3800	0	3200	ug/Kg	84		0		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	1700	ug/Kg	89		0		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	1700	ug/Kg	89		0		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1700	ug/Kg	89		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	1500	ug/Kg	79		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1600	ug/Kg	84		6		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	1400	ug/Kg	74		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	1400	ug/Kg	74		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95		0		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	1700	ug/Kg	89		0		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	1700	ug/Kg	89		6		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95		7		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*	0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74		8		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*	0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1600	ug/Kg	84		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				20 (10)	160 (133)	
	Phenol	1700	1300	ug/Kg	76				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				70 (60)	130 (101)	
	2-Chlorophenol	1700	1400	ug/Kg	82				70 (65)	130 (112)	
	2-Methylphenol	1700	1300	ug/Kg	76				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65		*		70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1300	ug/Kg	76				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1600	ug/Kg	94				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	400	ug/Kg	24		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	850	ug/Kg	50		*		70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				20 (37)	160 (128)	
	4-Nitrophenol	3300	3800	ug/Kg	115				20 (48)	160 (119)	
	Dibenzofuran	1700	1300	ug/Kg	76				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1800	ug/Kg	106				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	3000	ug/Kg	91				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				70 (60)	130 (102)	
	Chrysene	1700	1400	ug/Kg	82				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				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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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BS	Benzaldehyde	50	23.3	ug/L	47				20 (10)	160 (162)	
	Phenol	50	42.4	ug/L	85				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				70 (62)	130 (103)	
	2-Chlorophenol	50	45.4	ug/L	91				70 (70)	130 (117)	
	2-Methylphenol	50	44.3	ug/L	89				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.4	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	47.1	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	43.7	ug/L	87				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	39.7	ug/L	79				70 (57)	130 (107)	
	Hexachloroethane	50	44.5	ug/L	89				20 (76)	160 (118)	
	Nitrobenzene	50	48.9	ug/L	98				70 (58)	130 (106)	
	Isophorone	50	43.6	ug/L	87				70 (61)	130 (102)	
	2-Nitrophenol	50	53.1	ug/L	106				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.9	ug/L	110				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.2	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	44.9	ug/L	90				70 (66)	130 (115)	
	Naphthalene	50	43.2	ug/L	86				70 (64)	130 (107)	
	4-Chloroaniline	50	19.7	ug/L	39		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.6	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	52.3	ug/L	105				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	44.3	ug/L	89				70 (65)	130 (114)	
	2-Methylnaphthalene	50	41.8	ug/L	84				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	160	ug/L	160				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	47.0	ug/L	94				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	48.6	ug/L	97				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	44.4	ug/L	89				70 (59)	130 (106)	
	2-Nitroaniline	50	51.2	ug/L	102				70 (73)	130 (114)	
	Dimethylphthalate	50	44.8	ug/L	90				70 (64)	130 (103)	
	Acenaphthylene	50	46.8	ug/L	94				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	51.2	ug/L	102				70 (64)	130 (110)	
	3-Nitroaniline	50	33.7	ug/L	67		*		70 (28)	130 (100)	
	Acenaphthene	50	51.2	ug/L	102				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	120	ug/L	120				20 (36)	160 (166)	
	4-Nitrophenol	100	120	ug/L	120				20 (45)	160 (147)	
	Dibenzofuran	50	42.9	ug/L	86				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	57.4	ug/L	115				70 (60)	130 (115)	
	Diethylphthalate	50	43.7	ug/L	87				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	44.9	ug/L	90				70 (61)	130 (104)	
	Fluorene	50	44.9	ug/L	90				70 (64)	130 (107)	
	4-Nitroaniline	50	61.3	ug/L	123				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	59.9	ug/L	120				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.6	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	44.4	ug/L	89				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BS	Hexachlorobenzene	50	47.3	ug/L	95				70 (73)	130 (106)	
	Atrazine	50	64.1	ug/L	128				70 (76)	130 (120)	
	Pentachlorophenol	100	97.7	ug/L	98				20 (47)	160 (114)	
	Phenanthrene	50	45.5	ug/L	91				70 (62)	130 (109)	
	Anthracene	50	45.8	ug/L	92				70 (65)	130 (110)	
	Carbazole	50	45.6	ug/L	91				70 (62)	130 (106)	
	Di-n-butylphthalate	50	43.1	ug/L	86				70 (64)	130 (106)	
	Fluoranthene	50	46.5	ug/L	93				70 (64)	130 (110)	
	Pyrene	50	44.0	ug/L	88				70 (71)	130 (103)	
	Butylbenzylphthalate	50	46.5	ug/L	93				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	28.5	ug/L	57		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.6	ug/L	91				70 (62)	130 (107)	
	Chrysene	50	45.0	ug/L	90				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	46.6	ug/L	93				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	45.1	ug/L	90				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	45.0	ug/L	90				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	44.4	ug/L	89				70 (77)	130 (105)	
	Benzo(a)pyrene	50	48.1	ug/L	96				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.9	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	49.9	ug/L	100				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	47.7	ug/L	95				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	48.9	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	39.6	ug/L	79				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	48.4	ug/L	97				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BSD	Benzaldehyde	50	23.1	ug/L	46	1			20 (10)	160 (162)	20 (20)
	Phenol	50	41.6	ug/L	83	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	41.1	ug/L	82	2			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	44.8	ug/L	90	1			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	43.2	ug/L	86	3			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	35.1	ug/L	70	4			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.8	ug/L	94	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	42.8	ug/L	86	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	38.5	ug/L	77	3			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	44.7	ug/L	89	0			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	48.5	ug/L	97	1			70 (58)	130 (106)	20 (20)
	Isophorone	50	43.1	ug/L	86	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	53.4	ug/L	107	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	53.9	ug/L	108	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	40.1	ug/L	80	3			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.6	ug/L	89	1			70 (66)	130 (115)	20 (20)
	Naphthalene	50	43.1	ug/L	86	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	20.1	ug/L	40	2	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.6	ug/L	93	0			70 (69)	130 (101)	20 (20)
	Caprolactam	50	50.5	ug/L	101	4			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.9	ug/L	88	1			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.2	ug/L	82	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	160	ug/L	160	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	47.0	ug/L	94	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	48.8	ug/L	98	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	48.0	ug/L	96	0			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	44.3	ug/L	89	0			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.4	ug/L	103	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	0			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	46.3	ug/L	93	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	51.6	ug/L	103	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	34.7	ug/L	69	3	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	51.0	ug/L	102	0			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	120	ug/L	120	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	120	ug/L	120	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	42.4	ug/L	85	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	57.5	ug/L	115	0			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.2	ug/L	86	1			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.2	ug/L	88	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.5	ug/L	89	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	61.0	ug/L	122	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	59.5	ug/L	119	1			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	43.0	ug/L	86	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	43.4	ug/L	87	2			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166982BSD	Hexachlorobenzene	50	46.8	ug/L	94	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	63.7	ug/L	127	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	97.3	ug/L	97	0			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.5	ug/L	91	0			70 (62)	130 (109)	20 (20)
	Anthracene	50	46.1	ug/L	92	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.4	ug/L	93	2			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	42.7	ug/L	85	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	47.4	ug/L	95	2			70 (64)	130 (110)	20 (20)
	Pyrene	50	42.3	ug/L	85	4			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	45.7	ug/L	91	2			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	29.7	ug/L	59	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	44.6	ug/L	89	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.7	ug/L	89	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	46.9	ug/L	94	1			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	45.8	ug/L	92	2			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.0	ug/L	88	2			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	45.2	ug/L	90	2			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.5	ug/L	95	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	45.3	ug/L	91	12			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	45.0	ug/L	90	10			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	41.8	ug/L	84	13			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	49.2	ug/L	98	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.6	ug/L	79	0			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97	1			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166982BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141861.D Lab Sample ID: PB166982BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) Water Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 11:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166982BS	PB166982BS	BF141862.D	03/06/2025
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (19.8) 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
SSTDCCC040	SSTDCCC040	BF141835.D	03/05/2025	10:09
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025	13:53
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025	14:23
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025	14:52
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025	16:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (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	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52
PB166982BL	PB166982BL	BF141861.D	03/06/2025	11:21
PB166982BS	PB166982BS	BF141862.D	03/06/2025	11:51
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025	12:21
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025	13:01
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025	13:31
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025	16:00
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025	16:29

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	246608	6.887	945299	8.17	507589	9.92
	UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
	LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
	EPA SAMPLE NO.						
01	ENV-104-SB02	200259	6.89	760393	8.16	389790	9.92
02	DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
03	DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92
04	ENV-101-SB02	181202	6.89	685861	8.16	338318	9.92
05	ENV-102-SB01	199424	6.89	747735	8.16	373687	9.92
06	ENV-104-SB01	192627	6.89	725608	8.16	362334	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	873644	11.404	595765	14.045	513355	15.51
	UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
	LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
	EPA SAMPLE NO.						
01	ENV-104-SB02	614563	11.40	462576	14.04	512973	15.51
02	DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
03	DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51
04	ENV-101-SB02	507852	11.40	419765	14.03	463489	15.51
05	ENV-102-SB01	582421	11.40	429057	14.04	509930	15.51
06	ENV-104-SB01	551877	11.40	435864	14.03	488168	15.51

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.
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	207866	6.887	779725	8.17	422269	9.92
	UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
	LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
	EPA SAMPLE NO.						
01	ENV-102-GW01	157960	6.89	631847	8.16	343111	9.92
02	ENV-104-GW01	140013	6.89	541385	8.16	290279	9.92
03	PB166984BL	218862	6.89	871720	8.16	477596	9.92
04	PB166984BS	222677	6.89	860348	8.17	467040	9.92
05	PB166982BL	212037	6.89	840031	8.16	466101	9.92
06	PB166982BS	210095	6.89	832298	8.16	456822	9.92
07	PB166982BSD	218542	6.89	850562	8.17	458462	9.92
08	ENV-102-SB02	163469	6.89	639781	8.16	350300	9.92
09	ENV-101-SB01	157980	6.89	615246	8.16	336755	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	691934	11.404	434521	14.045	382575	15.515
	UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
	LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
	EPA SAMPLE NO.						
01	ENV-102-GW01	586477	11.40	448542	14.04	460671	15.51
02	ENV-104-GW01	493097	11.40	386724	14.04	390388	15.51
03	PB166984BL	848035	11.40	691946	14.04	552165	15.51
04	PB166984BS	801941	11.41	537472	14.05	470320	15.52
05	PB166982BL	808511	11.40	646602	14.04	495069	15.51
06	PB166982BS	789268	11.40	533191	14.05	432459	15.51
07	PB166982BSD	790298	11.40	569230	14.05	468514	15.52
08	ENV-102-SB02	621587	11.40	547828	14.04	479609	15.51
09	ENV-101-SB01	605607	11.40	545094	14.04	450529	15.51

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:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	123		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	172	*	15 (44) - 110 (137)	115%	SPK: 150
1718-51-0	Terphenyl-d14	87.1		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	212000	6.887			
1146-65-2	Naphthalene-d8	840000	8.163			
15067-26-2	Acenaphthene-d10	466000	9.916			
1517-22-2	Phenanthrene-d10	809000	11.404			
1719-03-5	Chrysene-d12	647000	14.039			
1520-96-3	Perylene-d12	495000	15.51			

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:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		30 (10) - 130 (116)	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		30 (10) - 130 (105)	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	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:	PB166984BL			SDG No.:	Q1488
Lab Sample ID:	PB166984BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.3		4.00	10.0	ug/L
108-95-2	Phenol	42.4		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	45.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	44.3		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.4		1.40	5.00	ug/L
98-86-2	Acetophenone	47.1		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.6		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.2		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.9		0.88	5.00	ug/L
91-20-3	Naphthalene	43.2		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.7		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	52.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.4		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	33.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.4		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.7		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.9		0.98	5.00	ug/L
86-73-7	Fluorene	44.9		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.3		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.9		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	47.3		1.10	5.00	ug/L
1912-24-9	Atrazine	64.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.7	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	45.8		1.10	5.00	ug/L
86-74-8	Carbazole	45.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	43.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.5		1.30	5.00	ug/L
129-00-0	Pyrene	44.0		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	28.5		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.6		0.94	5.00	ug/L
218-01-9	Chrysene	45.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.6		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.0		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.4		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.1		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.9		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.7		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.9		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.4		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	131		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	177	*	15 (44) - 110 (137)	118%	SPK: 150
1718-51-0	Terphenyl-d14	99.9		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	210000	6.887			
1146-65-2	Naphthalene-d8	832000	8.163			
15067-26-2	Acenaphthene-d10	457000	9.922			
1517-22-2	Phenanthrene-d10	789000	11.404			
1719-03-5	Chrysene-d12	533000	14.045			
1520-96-3	Perylene-d12	432000	15.51			

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:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		30 (10) - 130 (116)	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

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:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.1		4.00	10.0	ug/L
108-95-2	Phenol	41.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.1		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	44.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	43.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	35.1		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.8		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.7		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.5		1.30	5.00	ug/L
78-59-1	Isophorone	43.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.4		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	53.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.1		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.6		0.88	5.00	ug/L
91-20-3	Naphthalene	43.1		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	20.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	50.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.9		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.2		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.0		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.4		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.6		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	34.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.5		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.2		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.2		0.98	5.00	ug/L
86-73-7	Fluorene	44.5		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.10	5.00	ug/L
1912-24-9	Atrazine	63.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.3	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	46.1		1.10	5.00	ug/L
86-74-8	Carbazole	46.4		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.7		1.50	5.00	ug/L
206-44-0	Fluoranthene	47.4		1.30	5.00	ug/L
129-00-0	Pyrene	42.3		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.7		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.6		0.94	5.00	ug/L
218-01-9	Chrysene	44.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.8		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.0		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.3		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	41.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	122		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	95.1		30 (48) - 130 (125)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	851000	8.169			
15067-26-2	Acenaphthene-d10	458000	9.922			
1517-22-2	Phenanthrene-d10	790000	11.404			
1719-03-5	Chrysene-d12	569000	14.045			
1520-96-3	Perylene-d12	469000	15.516			

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	102		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		30 (10) - 130 (116)	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		30 (10) - 130 (105)	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF1418
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo(a)anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo(b)fluoranthene	1.362	1.368		0.4	
Benzo(k)fluoranthene	1.158	1.057		-8.7	
Benzo(a)pyrene	1.093	1.074		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.310		2.8	
Dibenzo(a,h)anthracene	1.040	1.067		2.6	
Benzo(g,h,i)perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo(a)anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo(b)fluoranthene	1.362	1.388		1.9	
Benzo(k)fluoranthene	1.158	1.073		-7.3	
Benzo(a)pyrene	1.093	1.113		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.507		18.3	
Dibenzo(a,h)anthracene	1.040	1.220		17.3	
Benzo(g,h,i)perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

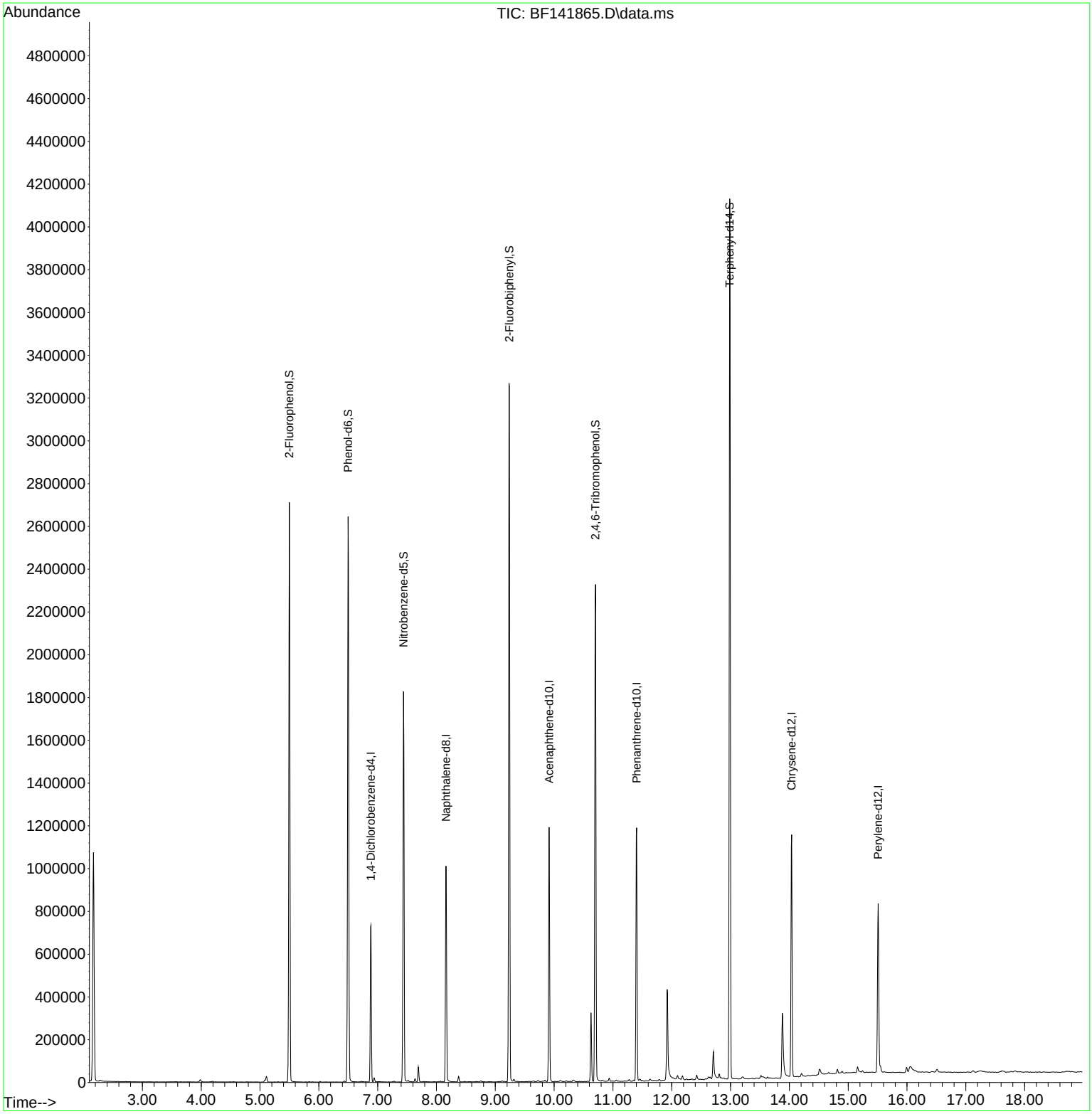
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	157980	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	615246	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	336755	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	605607	20.000	ng	0.00
76) Chrysene-d12	14.039	240	545094	20.000	ng	-0.01
86) Perylene-d12	15.509	264	450529	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1009938	102.093	ng	0.00
7) Phenol-d6	6.498	99	1263623	98.139	ng	-0.01
23) Nitrobenzene-d5	7.439	82	805343	83.670	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	396096	125.287	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1478775	70.411	ng	0.00
79) Terphenyl-d14	12.986	244	2007767	59.593	ng	-0.01
Target Compounds						Qvalue

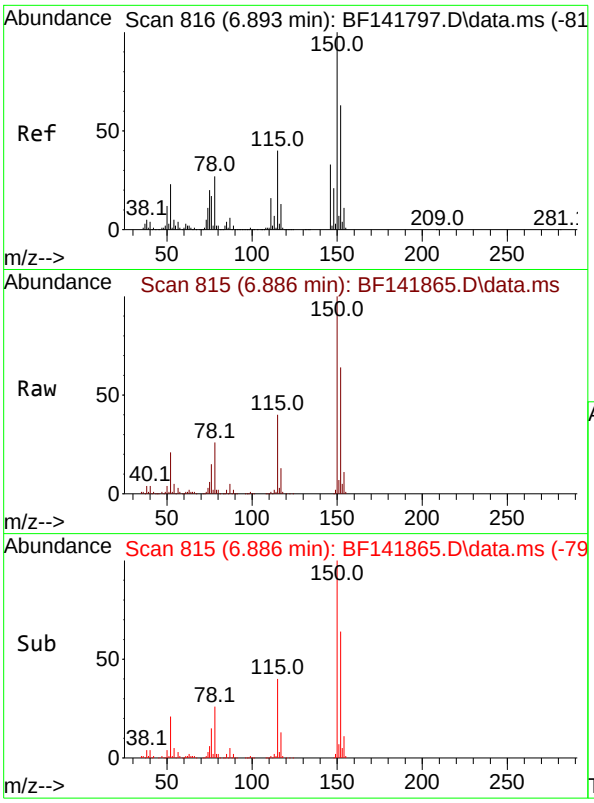
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



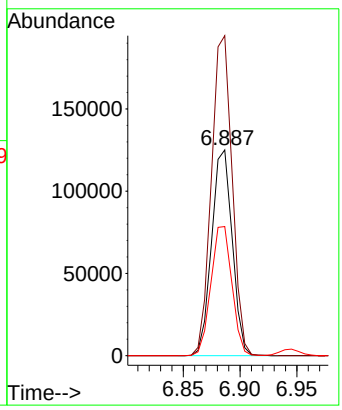


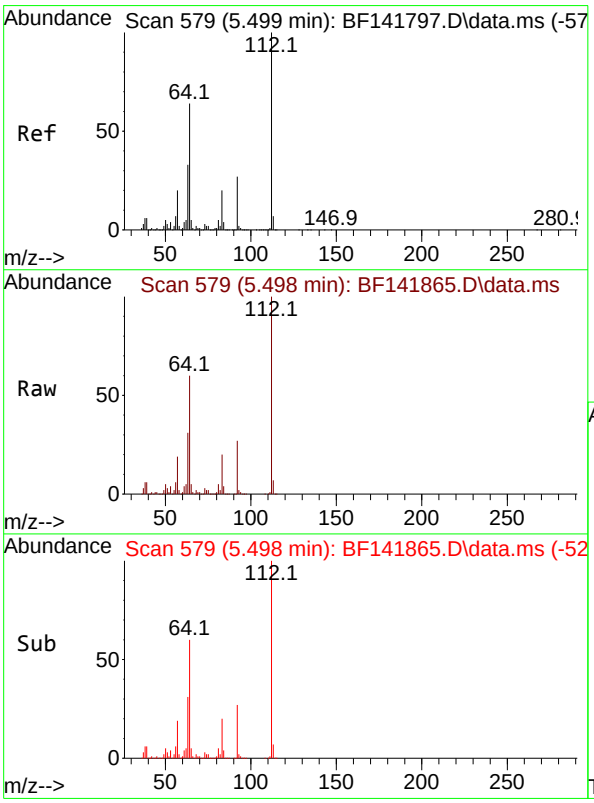
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:152 Resp: 157980

Ion	Ratio	Lower	Upper
152	100		
150	155.5	127.5	191.3
115	62.8	51.4	77.2

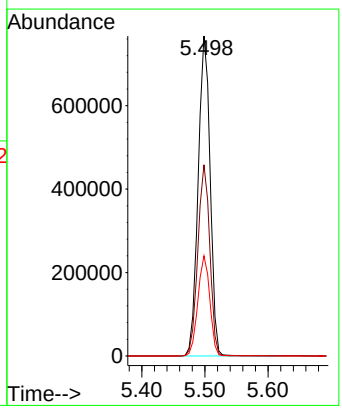


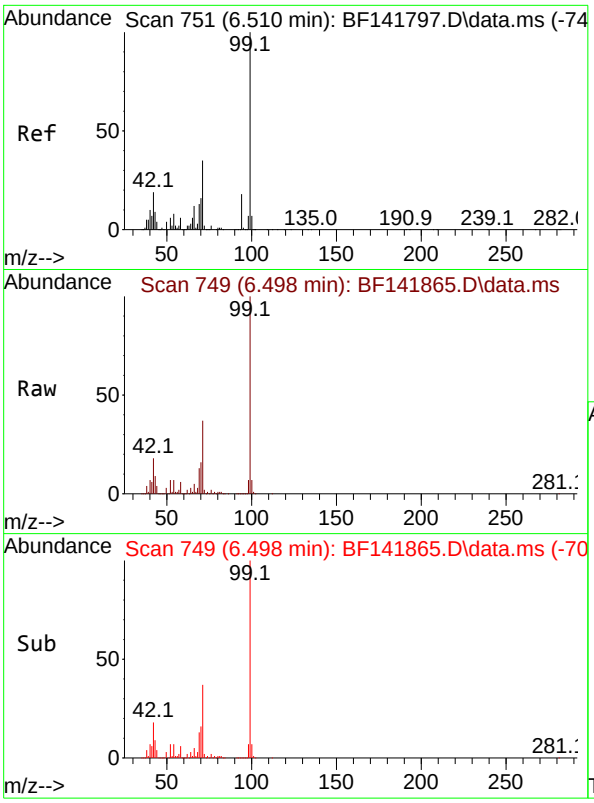


#5
2-Fluorophenol
Concen: 102.093 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:112 Resp: 1009938

Ion	Ratio	Lower	Upper
112	100		
64	59.7	51.3	76.9
63	31.3	26.2	39.4



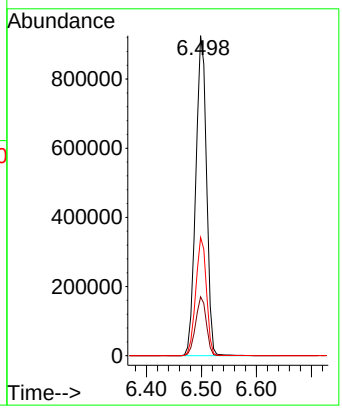


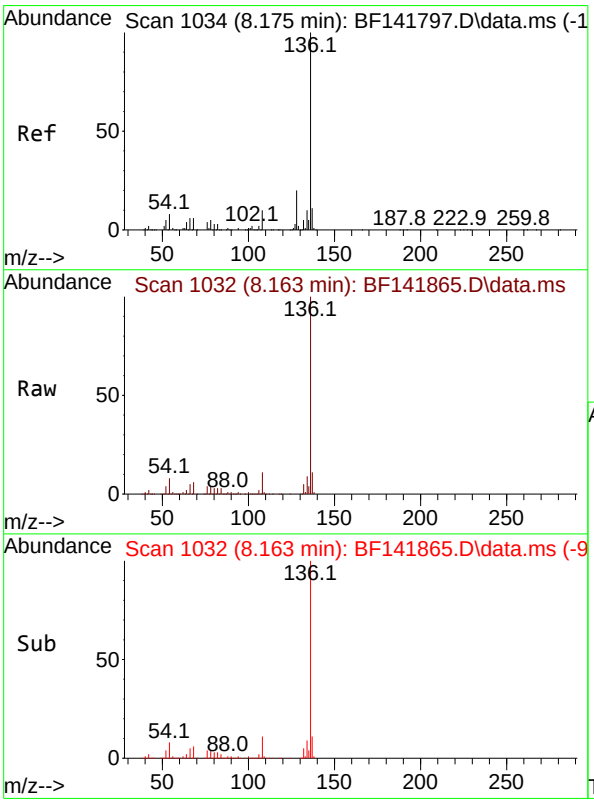
#7
Phenol-d6
Concen: 98.139 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 99 Resp: 1263623

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.2	22.8
71	37.0	28.2	42.2

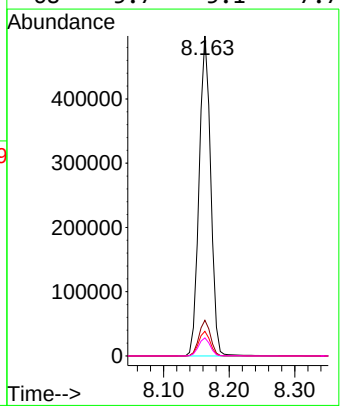


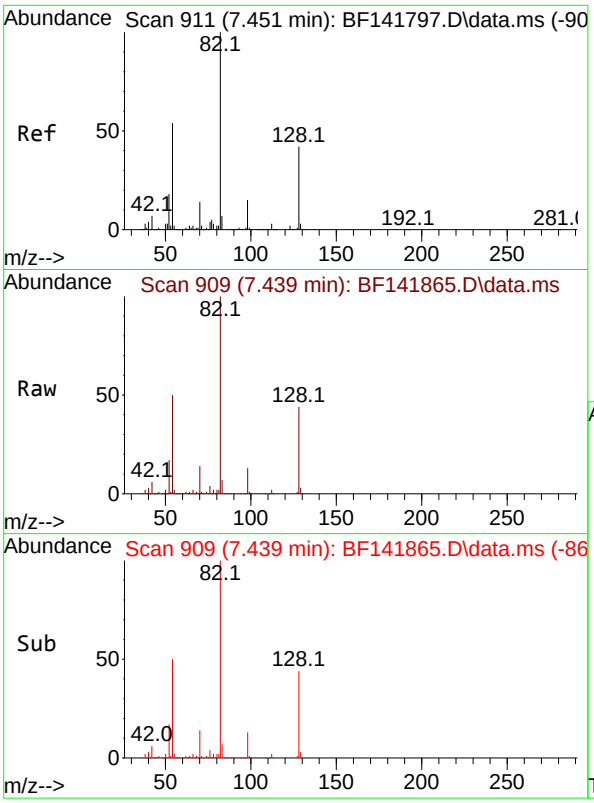


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:136 Resp: 615246

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	7.7	6.9	10.3
68	5.7	5.1	7.7



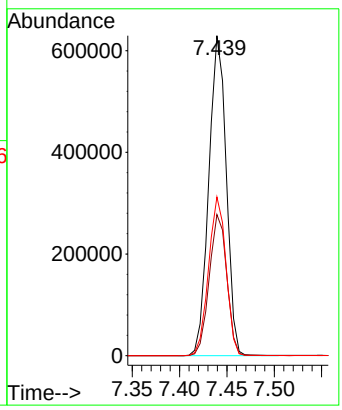


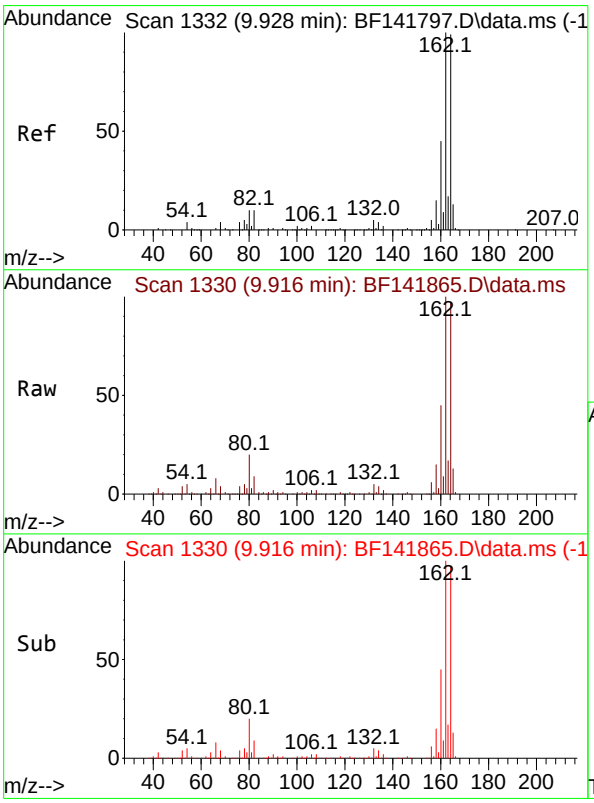
#23
Nitrobenzene-d5
Concen: 83.670 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 82 Resp: 805343

Ion	Ratio	Lower	Upper
82	100		
128	44.1	33.5	50.3
54	49.6	42.7	64.1

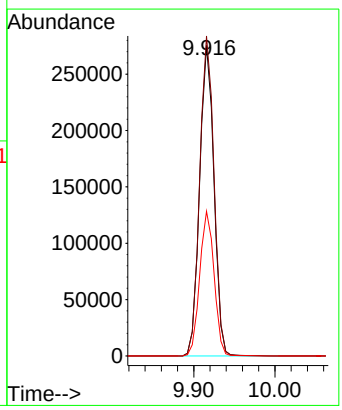


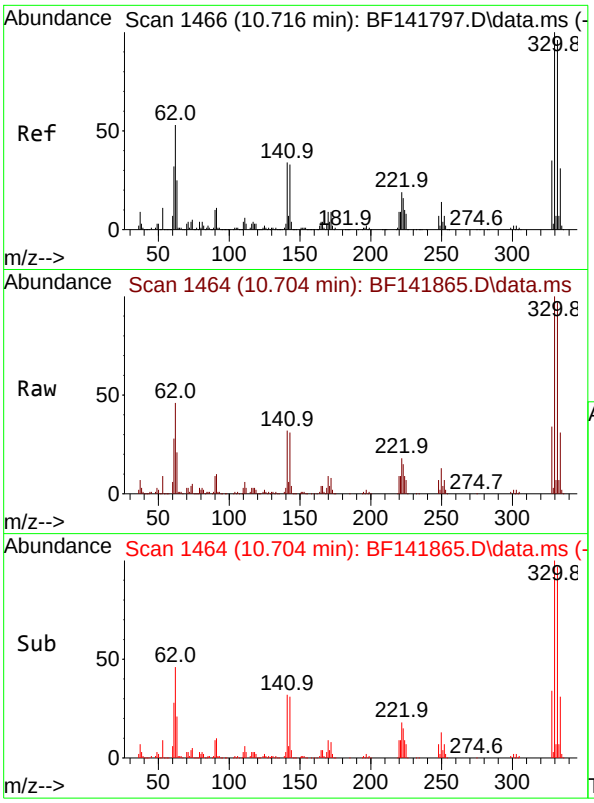


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:164 Resp: 336755

Ion	Ratio	Lower	Upper
164	100		
162	103.1	80.6	120.8
160	46.6	36.3	54.5



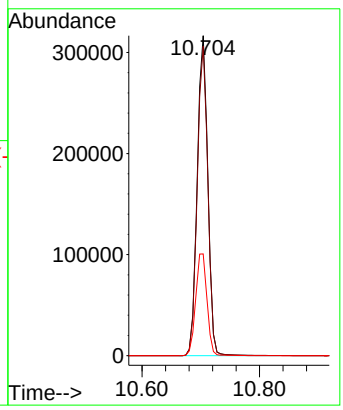


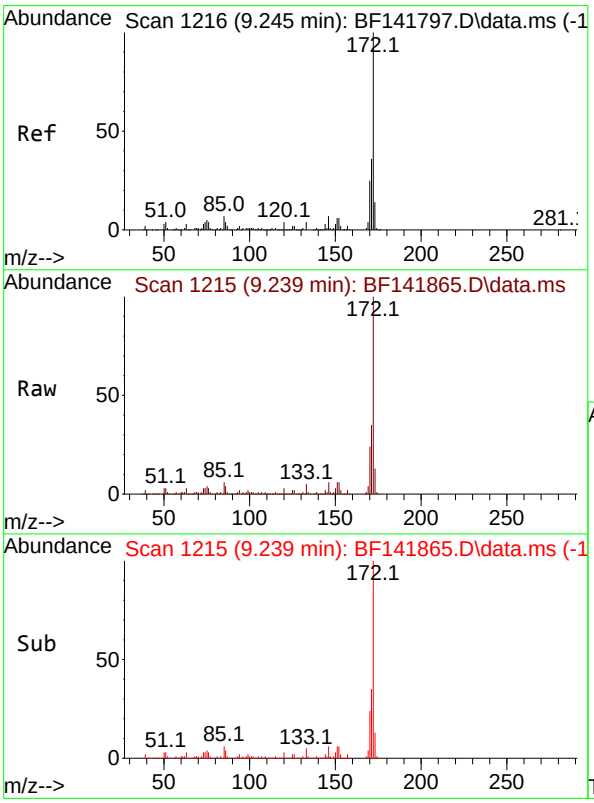
#42
2,4,6-Tribromophenol
Concen: 125.287 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:330 Resp: 396096

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	33.9	29.0	43.4

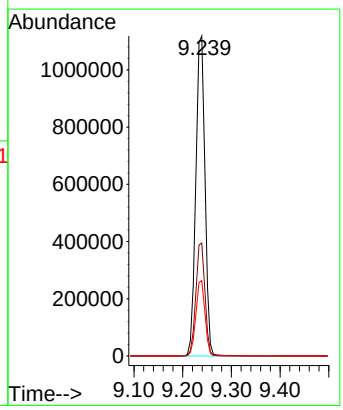


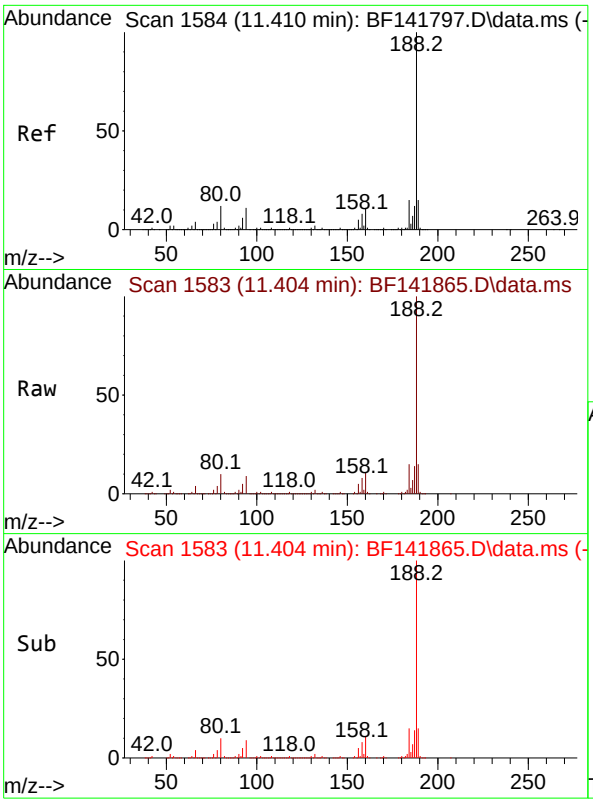


#45
2-Fluorobiphenyl
Concen: 70.411 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:172 Resp: 1478775

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.6	19.7	29.5



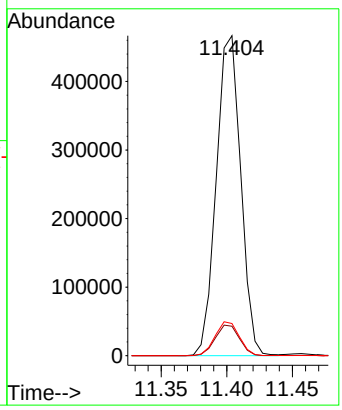


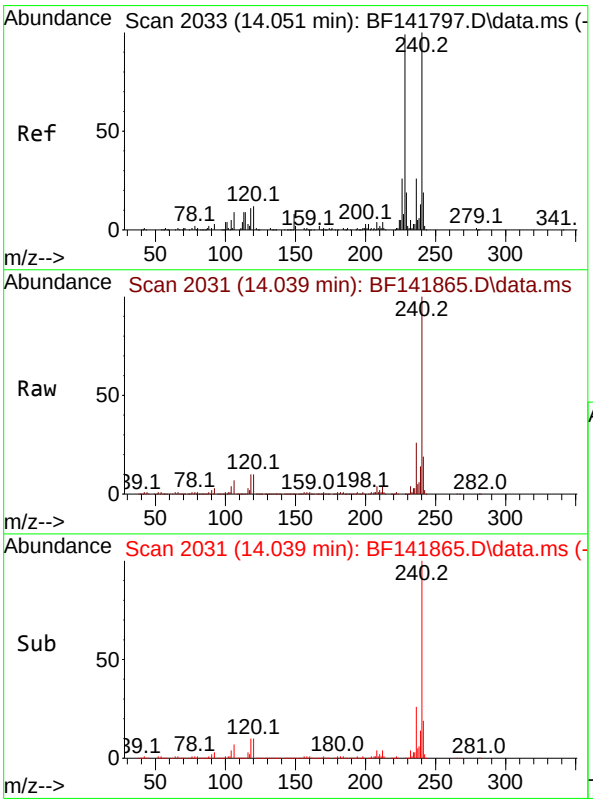
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:188 Resp: 605607

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.9	13.3
80	10.1	9.7	14.5

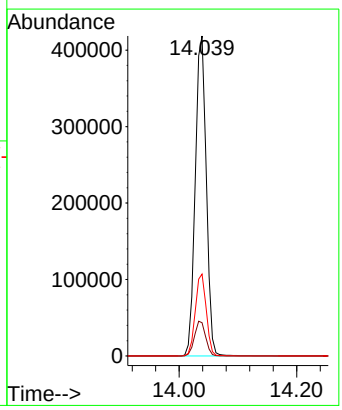


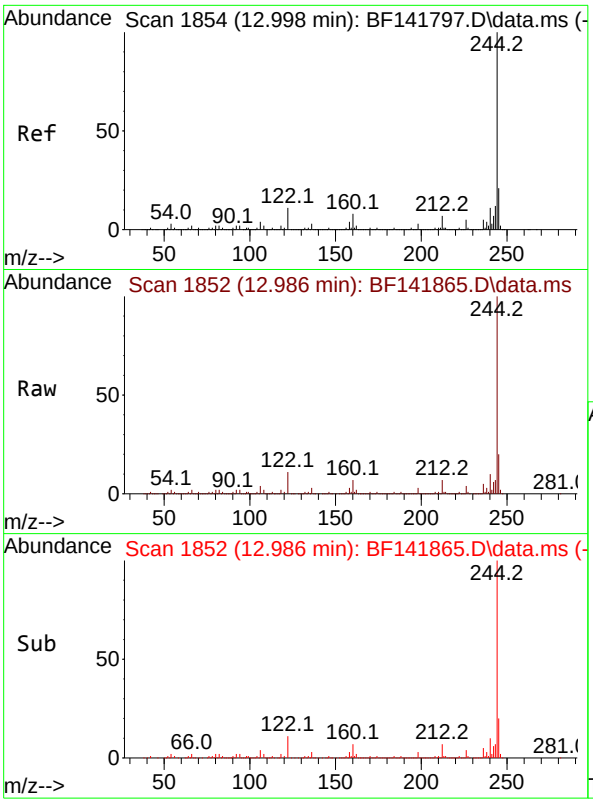


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:240 Resp: 545094

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.7	14.5
236	25.6	21.0	31.4



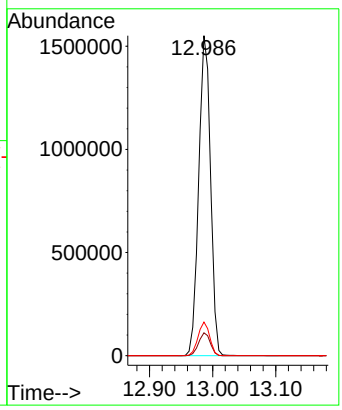


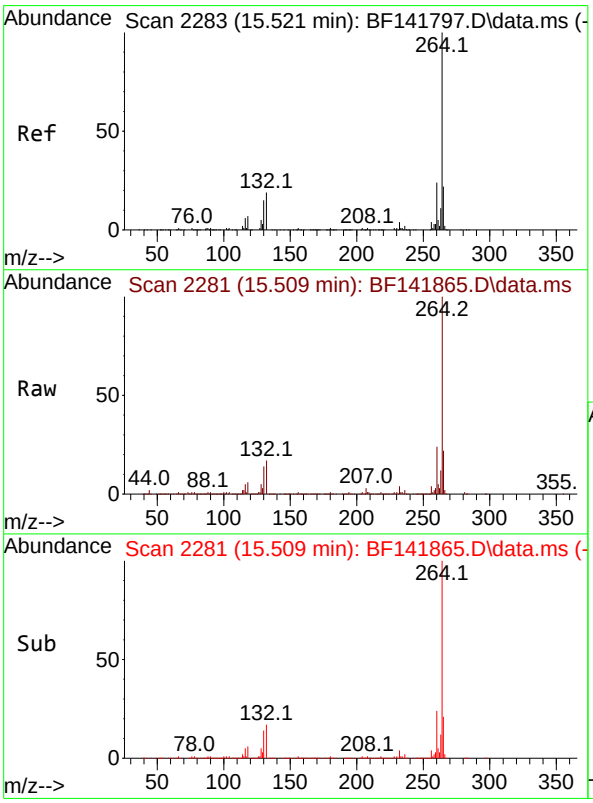
#79
Terphenyl-d14
Concen: 59.593 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:244 Resp: 2007767

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.5	9.0	13.6

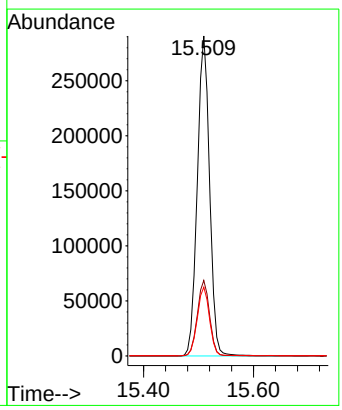




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:264 Resp: 450529

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.5	17.4	26.0



Sample Results: **BF141865.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141865.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	25	rVB	1068969	1695361	32.04%	4.981%
2	5.110	502	513	519	rBV2	26284	53052	1.00%	0.156%
3	5.498	573	579	584	rBV	2710163	3545252	66.99%	10.416%
4	6.498	743	749	763	rBV	2642813	3654891	69.06%	10.738%
5	6.887	809	815	820	rBV	733662	942210	17.80%	2.768%
6	7.439	903	909	914	rBV	1826214	2340958	44.24%	6.878%
7	7.692	948	952	963	rVB	69475	85422	1.61%	0.251%
8	8.163	1027	1032	1048	rBV	1008753	1255348	23.72%	3.688%
9	9.233	1209	1214	1220	rBV	3265912	4324835	81.72%	12.706%
10	9.916	1325	1330	1341	rVB	1188807	1461530	27.62%	4.294%
11	10.627	1446	1451	1458	rVB	321100	396181	7.49%	1.164%
12	10.704	1458	1464	1478	rBV	2323486	3039249	57.43%	8.929%
13	11.404	1577	1583	1588	rBV	1182493	1538512	29.07%	4.520%
14	11.921	1664	1671	1687	rBV	424479	720083	13.61%	2.116%
15	12.710	1799	1805	1818	rBV	126617	225472	4.26%	0.662%
16	12.986	1846	1852	1857	rBV	4115056	5291973	100.00%	15.547%
17	13.880	1999	2004	2024	rBV	304333	602744	11.39%	1.771%
18	14.039	2025	2031	2041	rVB	1131735	1497767	28.30%	4.400%
19	14.515	2107	2112	2122	rBV4	25740	64690	1.22%	0.190%
20	15.509	2274	2281	2287	rBV	788597	1236893	23.37%	3.634%
21	16.056	2369	2374	2388	rBV5	20378	65108	1.23%	0.191%

Sum of corrected areas: 34037531

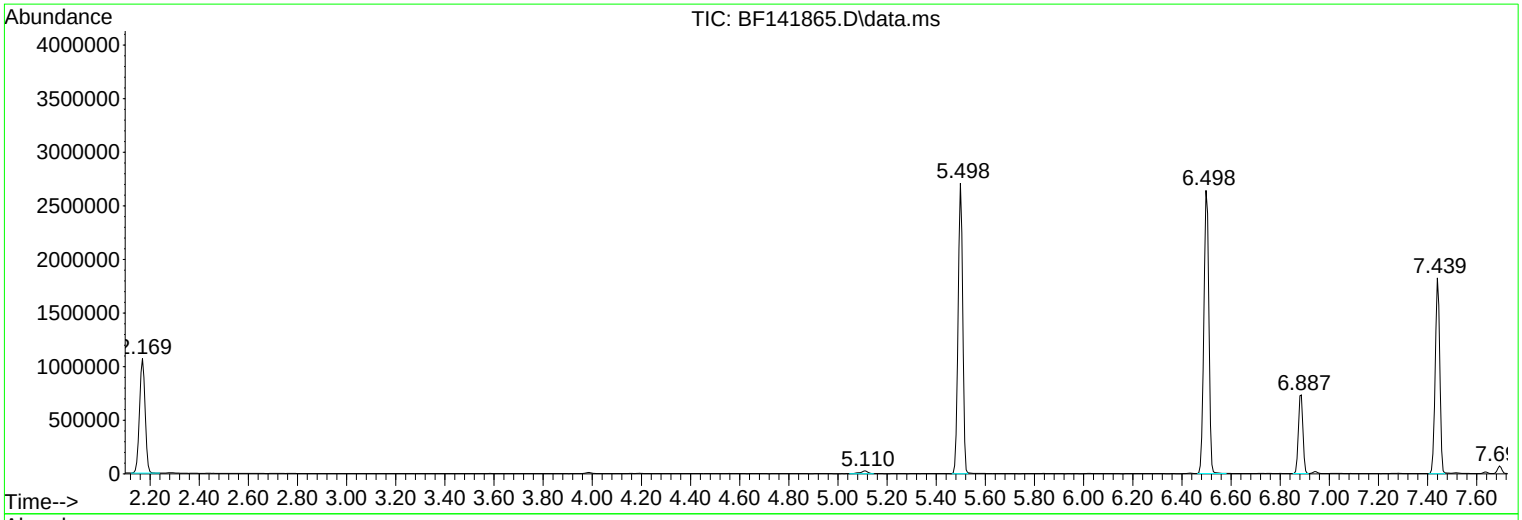
Sample Results: **BF141865.D**

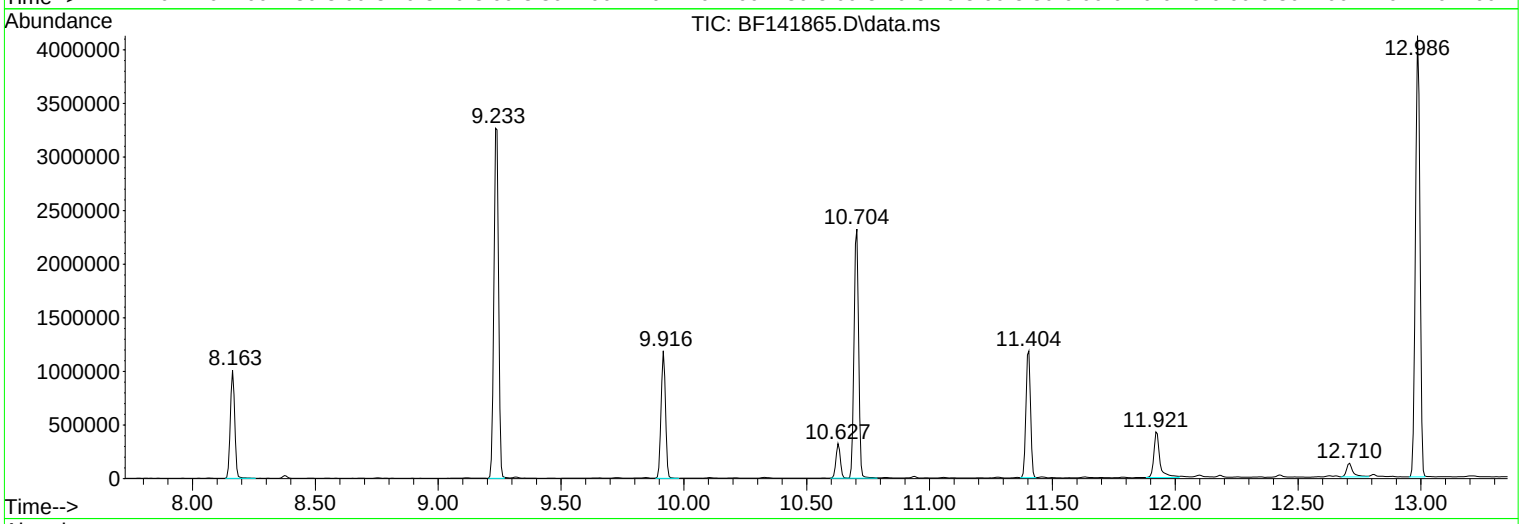
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

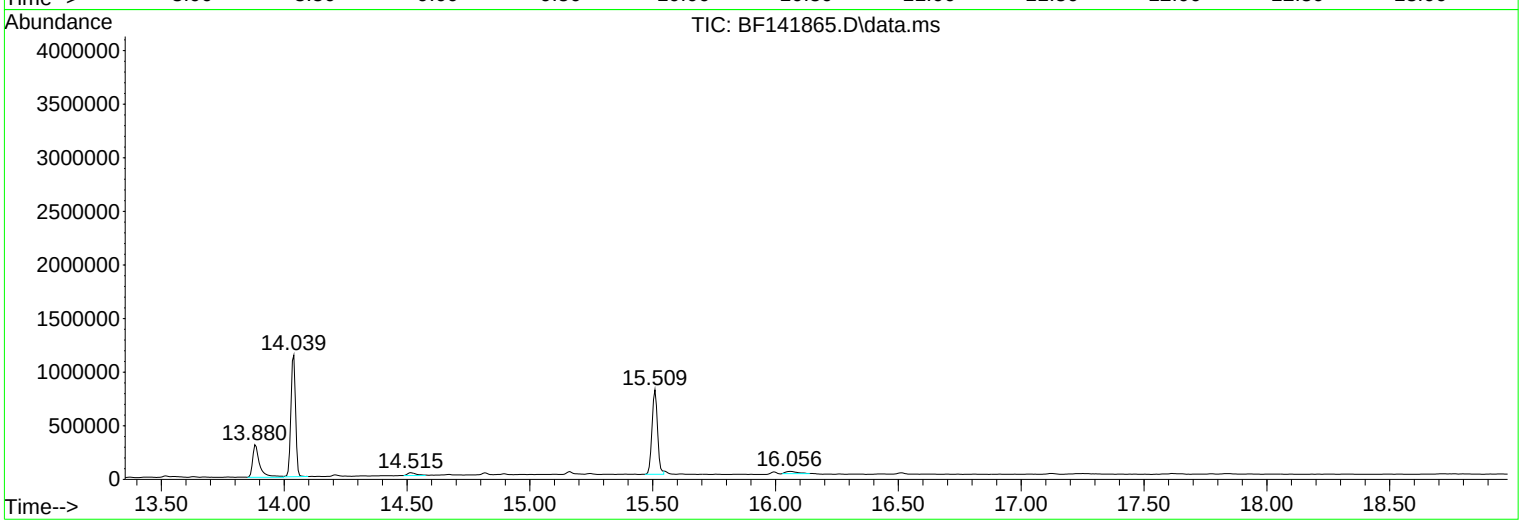
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

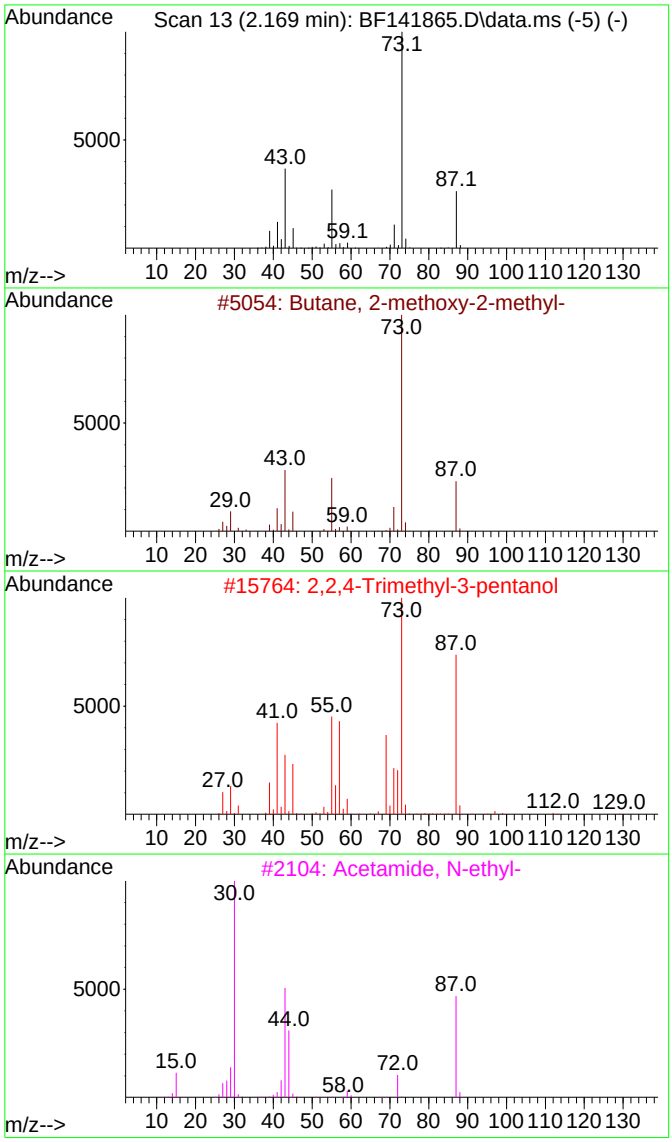
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

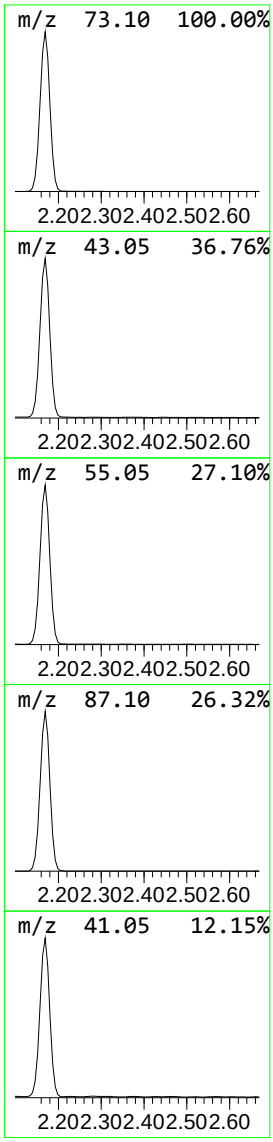
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	35.99 ng	1695360	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

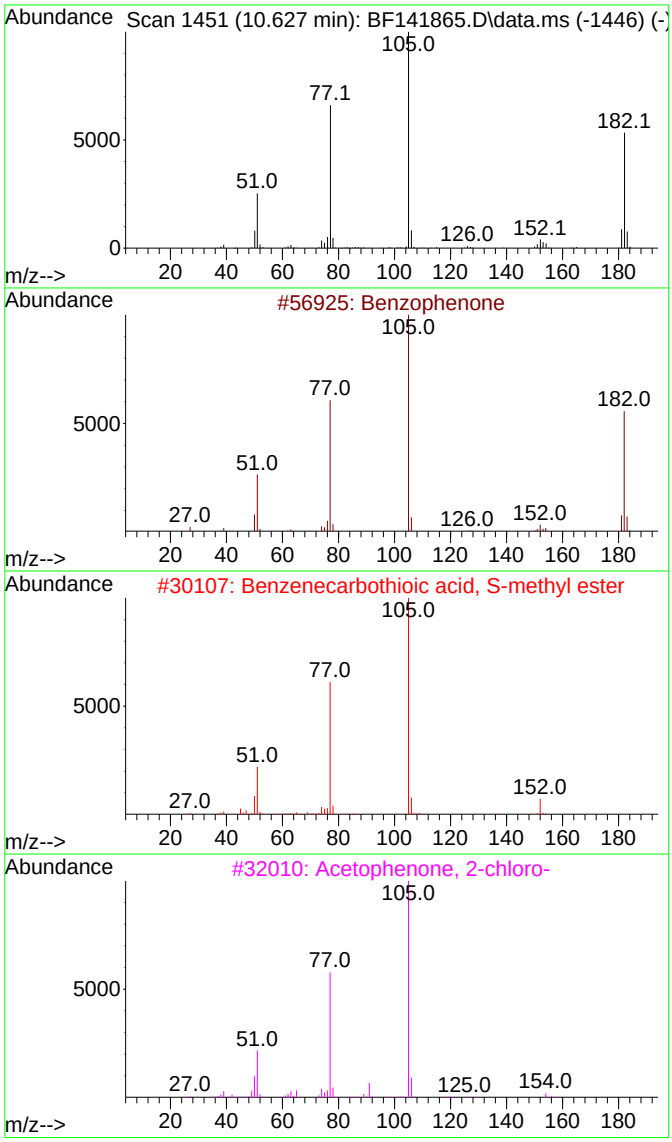
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

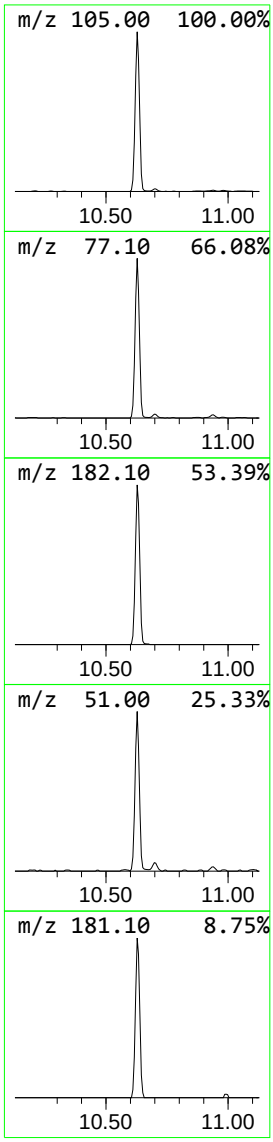
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	5.42 ng	396181	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

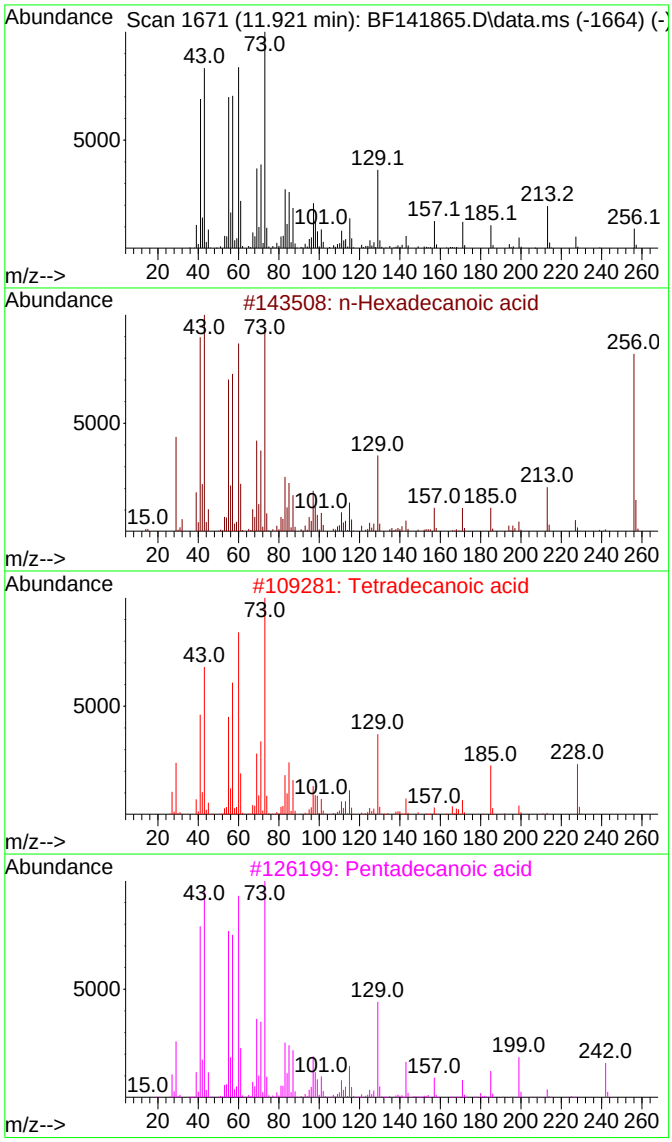
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

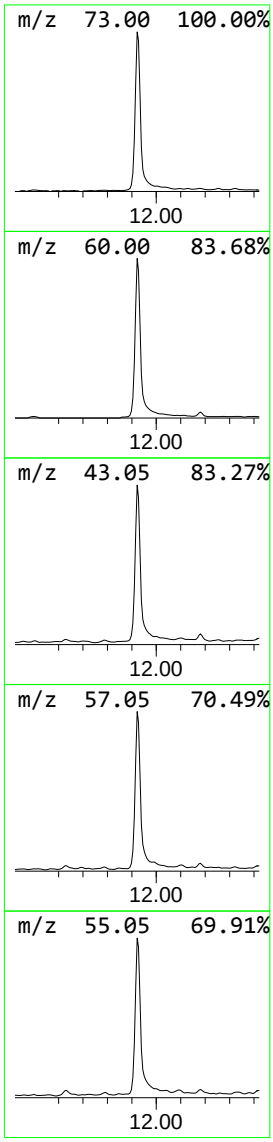
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	9.36 ng	720083	Phenanthrene-d10	11.404

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	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

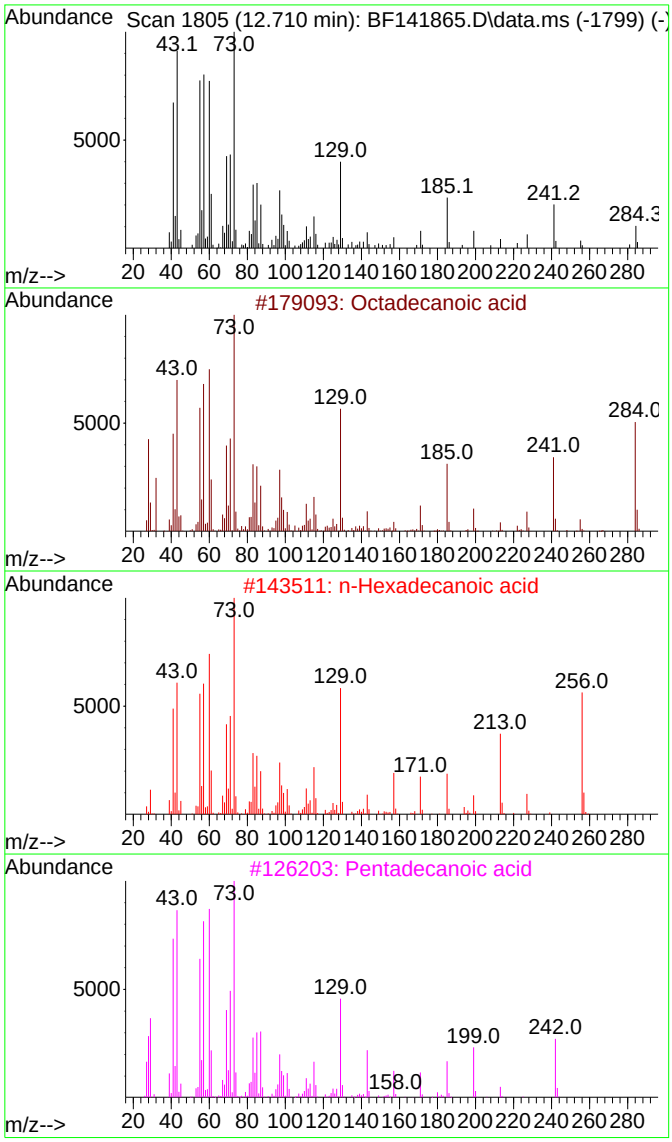
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

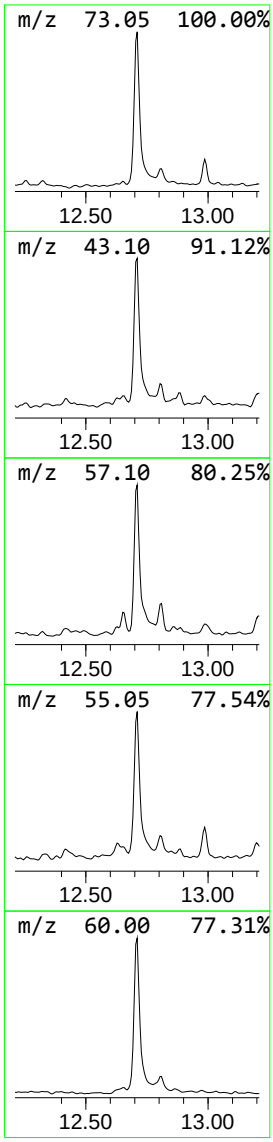
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	2.93 ng	225472	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

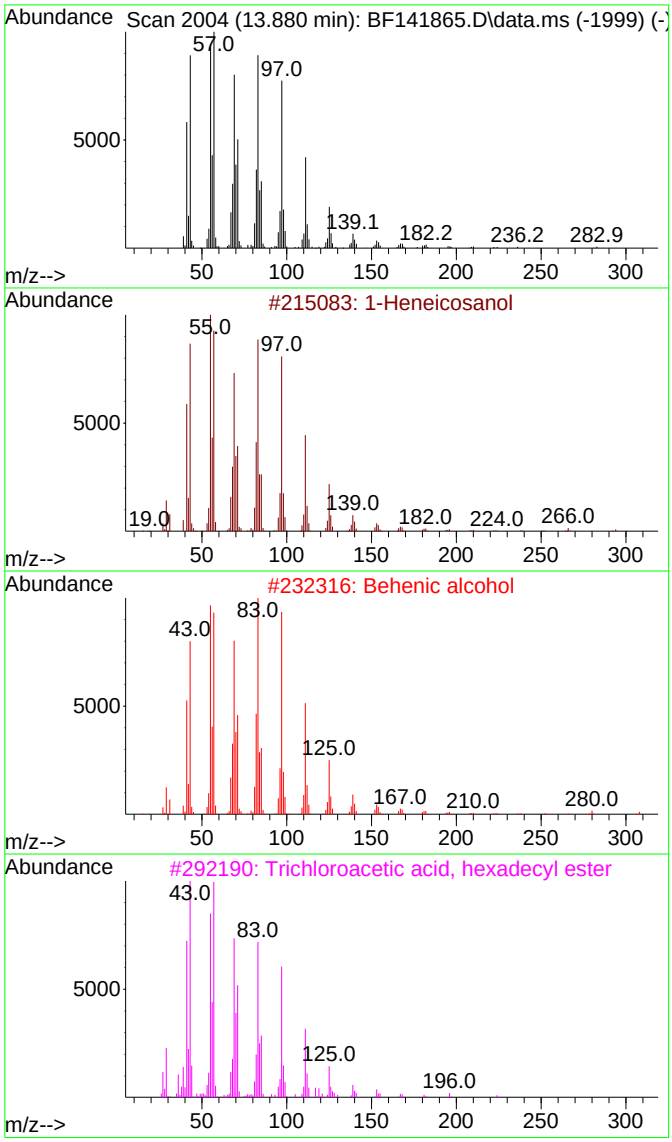
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

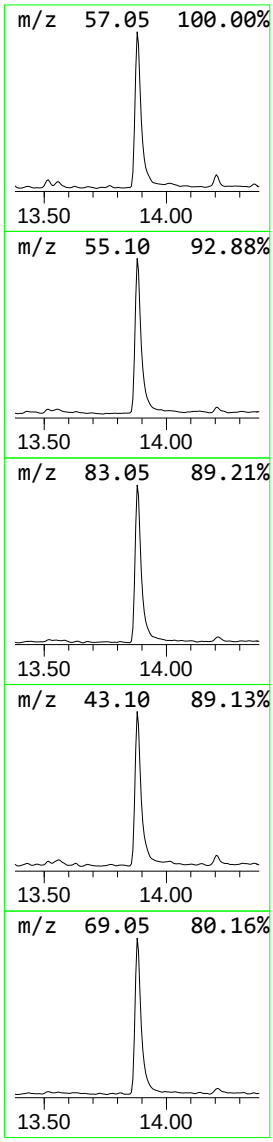
****

Peak Number 5 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	8.05 ng	602744	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Behenic alcohol	326	C22H46O	000661-19-8	95
3	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
4	1-Tetracosene	336	C24H48	010192-32-2	94
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94





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Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.169	36.0	ng	1695360	1	6.886	942210	20.0
Benzophenone	10.627	5.4	ng	396181	3	9.916	1461530	20.0
n-Hexadecanoic ...	11.922	9.4	ng	720083	4	11.404	1538510	20.0
Octadecanoic acid	12.710	2.9	ng	225472	4	11.404	1538510	20.0
1-Heneicosanol	13.880	8.1	ng	602744	5	14.039	1497770	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

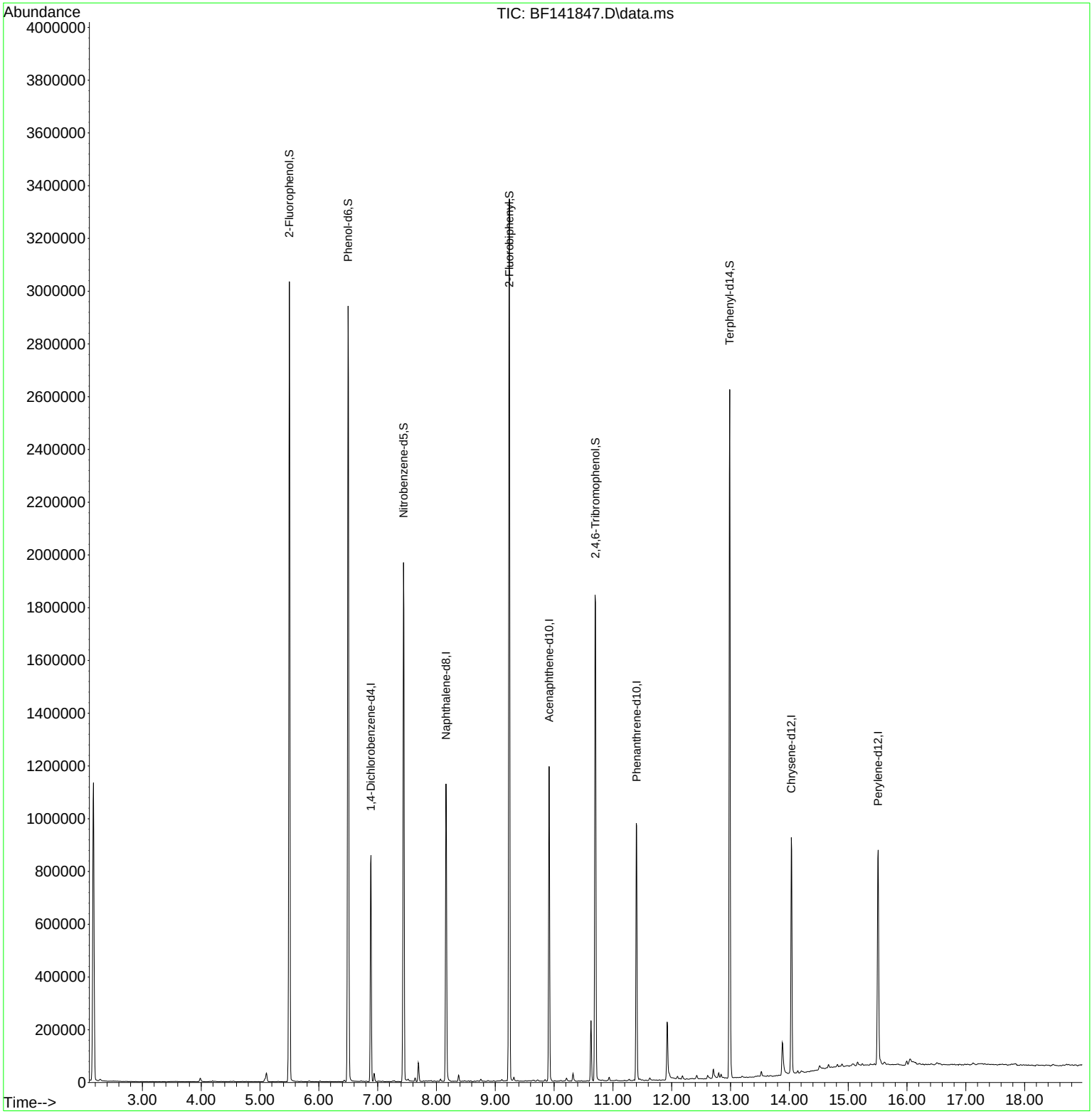
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	181202	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	685861	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	338318	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	507852	20.000	ng	0.00
76) Chrysene-d12	14.033	240	419765	20.000	ng	-0.02
86) Perylene-d12	15.509	264	463489	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1128338	99.444	ng	0.00
7) Phenol-d6	6.498	99	1397485	94.626	ng	-0.01
23) Nitrobenzene-d5	7.439	82	871593	81.230	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	305614	96.220	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1472330	69.781	ng	0.00
79) Terphenyl-d14	12.986	244	1233851	47.557	ng	-0.01
Target Compounds						Qvalue

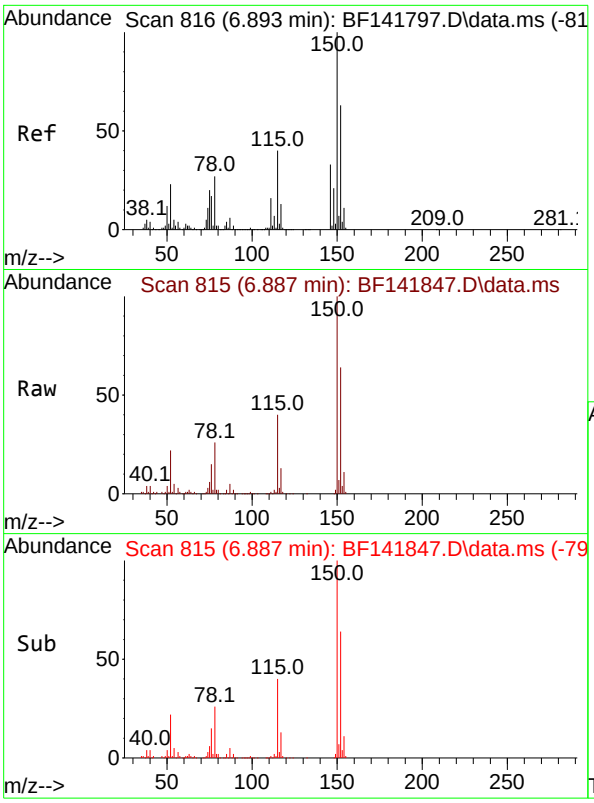
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



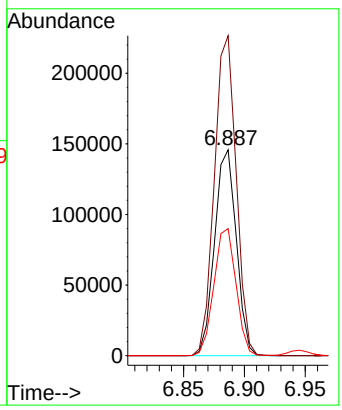


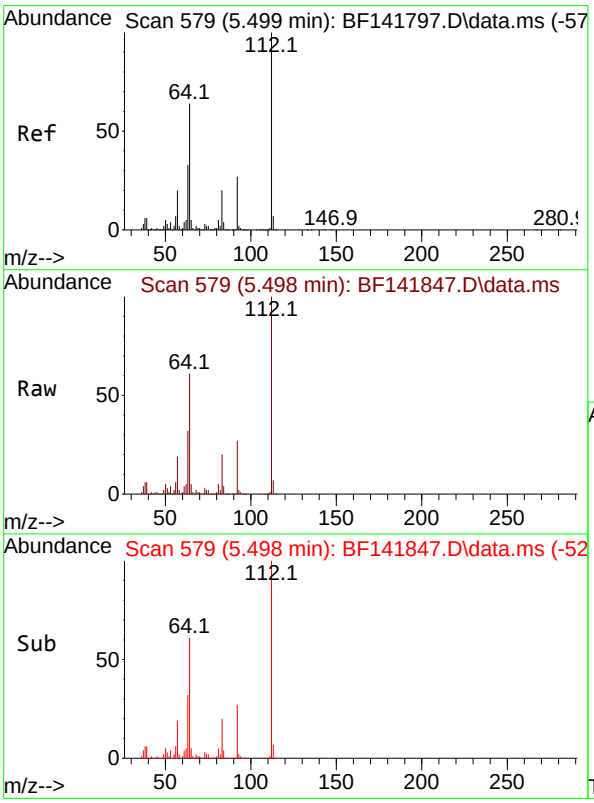
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:152 Resp: 181202

Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.5	191.3
115	61.7	51.4	77.2

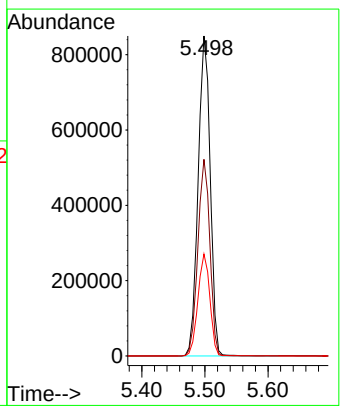


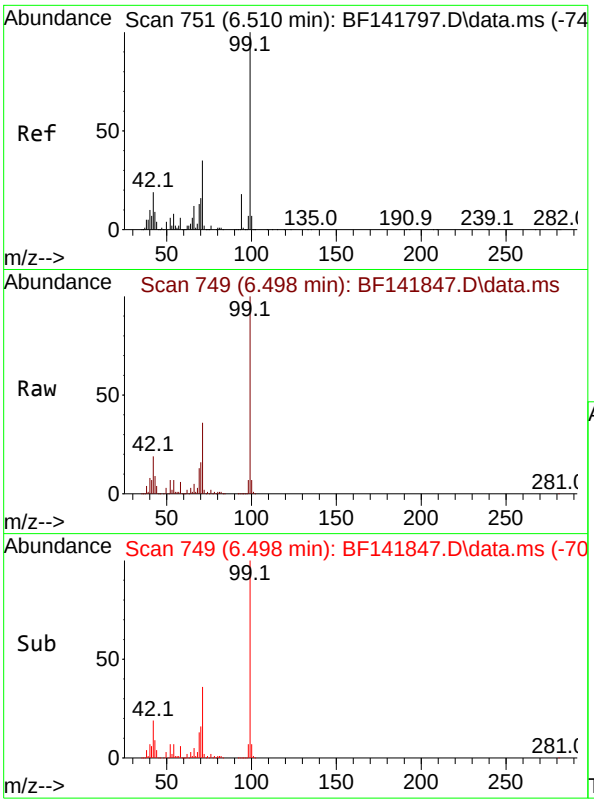


#5
2-Fluorophenol
Concen: 99.444 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:112 Resp: 1128338

Ion	Ratio	Lower	Upper
112	100		
64	61.4	51.3	76.9
63	31.9	26.2	39.4



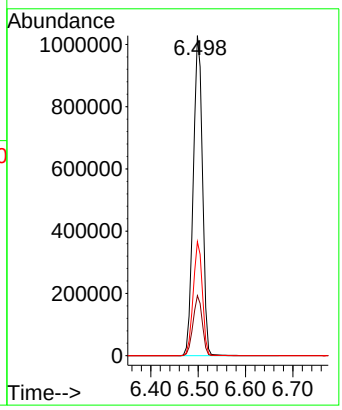


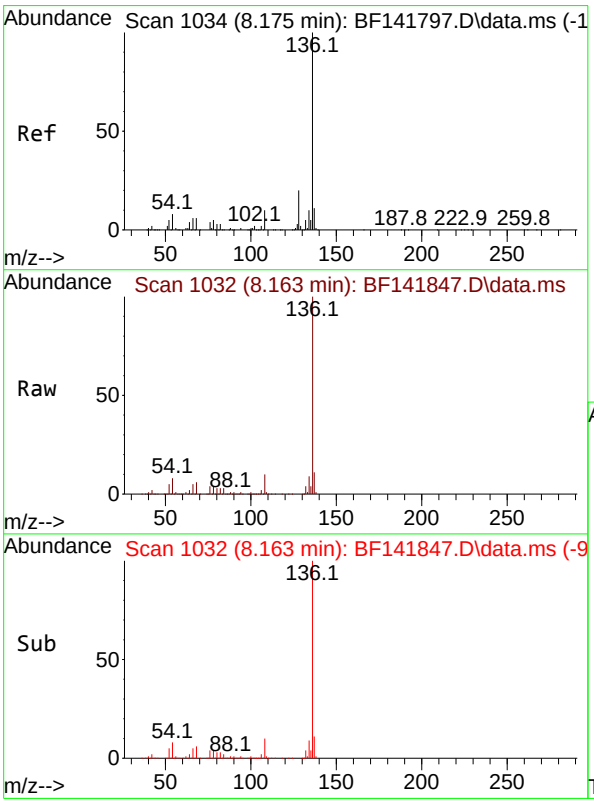
#7
Phenol-d6
Concen: 94.626 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion: 99 Resp: 1397485

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	35.6	28.2	42.2

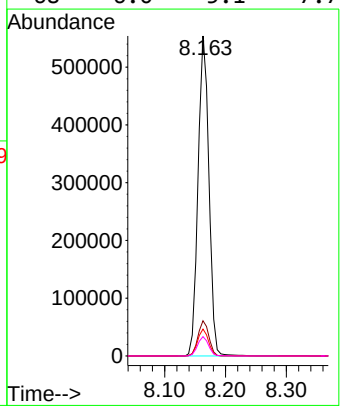


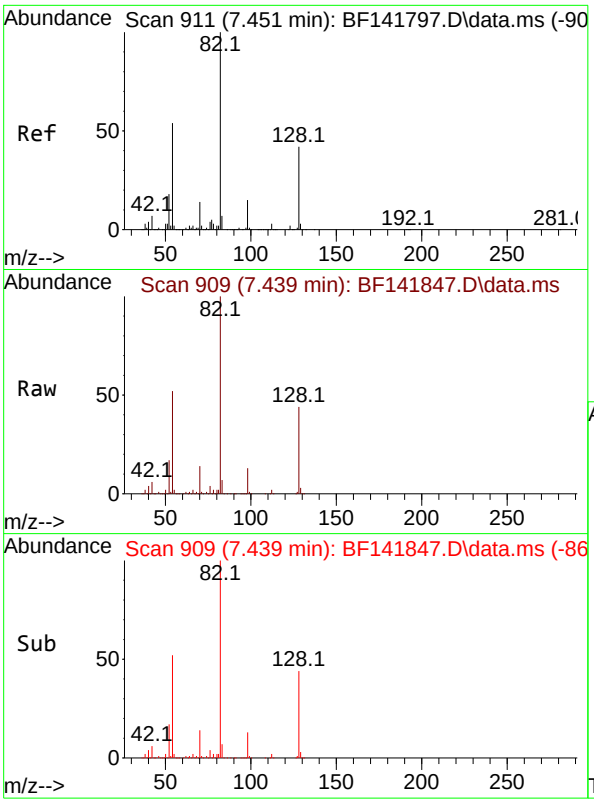


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:136 Resp: 685861

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.4	6.9	10.3
68	6.0	5.1	7.7



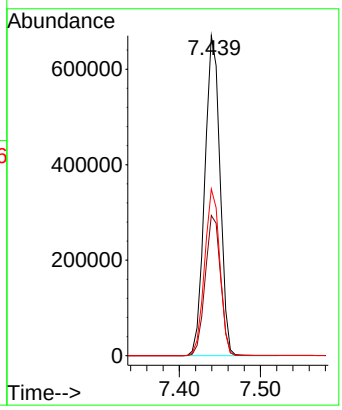


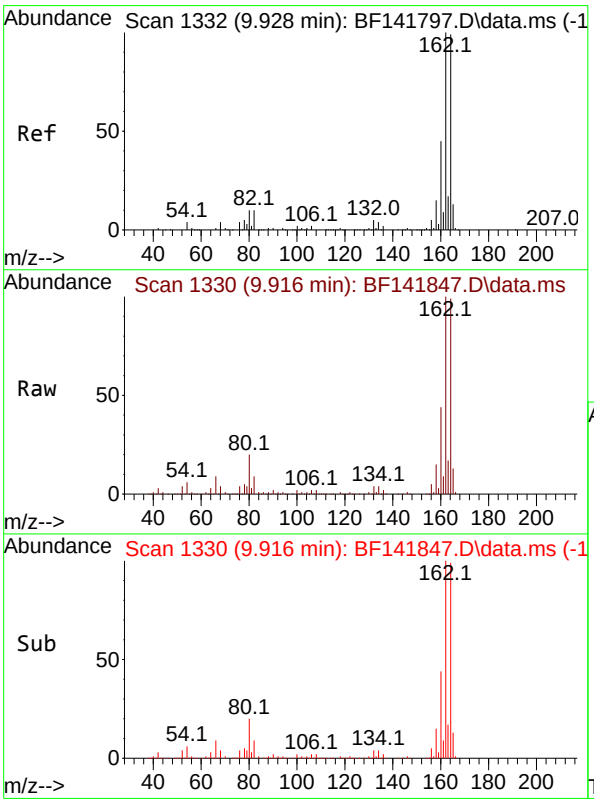
#23
Nitrobenzene-d5
Concen: 81.230 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion: 82 Resp: 871593

Ion	Ratio	Lower	Upper
82	100		
128	43.8	33.5	50.3
54	52.1	42.7	64.1

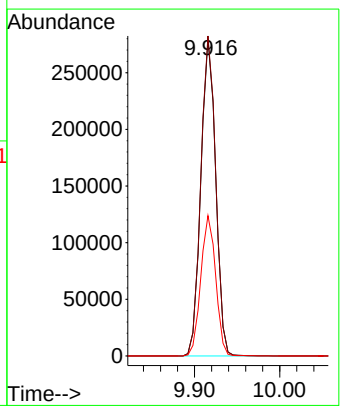


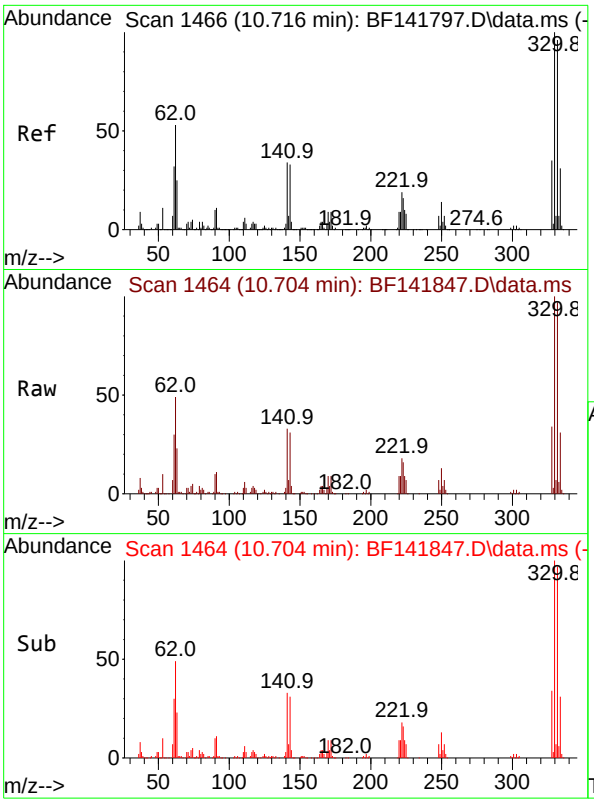


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:164 Resp: 338318

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	120.8
160	44.3	36.3	54.5



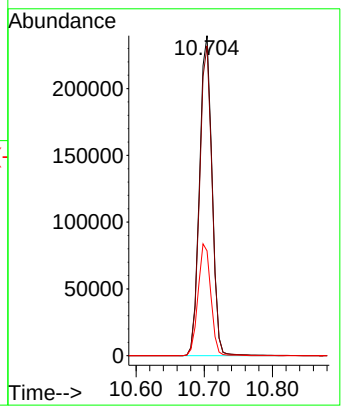


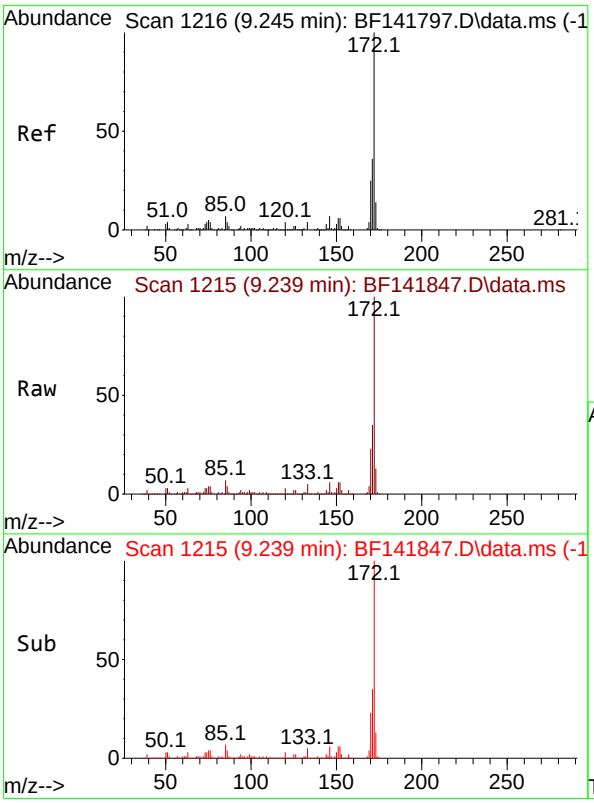
#42
2,4,6-Tribromophenol
Concen: 96.220 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:330 Resp: 305614

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.6	115.0
141	35.5	29.0	43.4

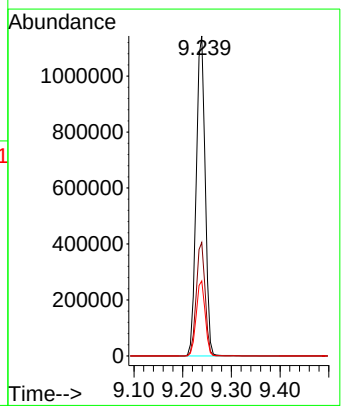


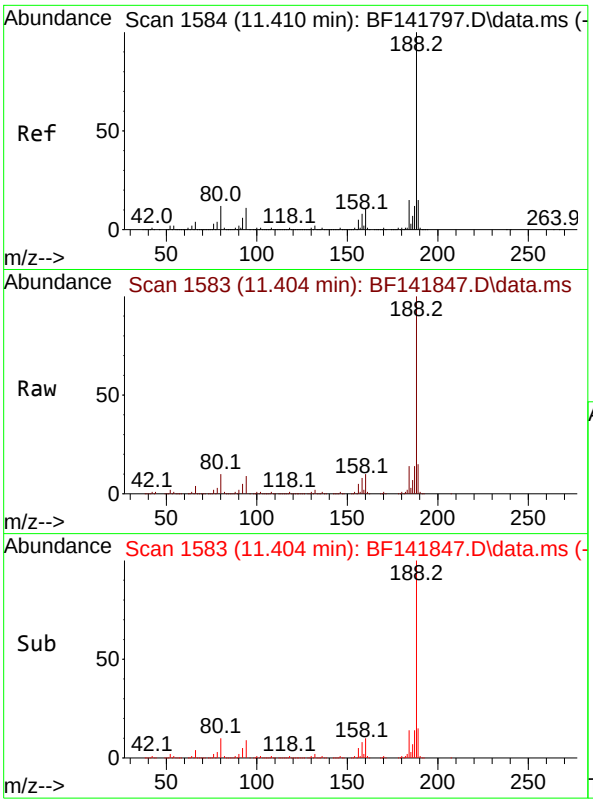


#45
2-Fluorobiphenyl
Concen: 69.781 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:172 Resp: 1472330

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.4	19.7	29.5



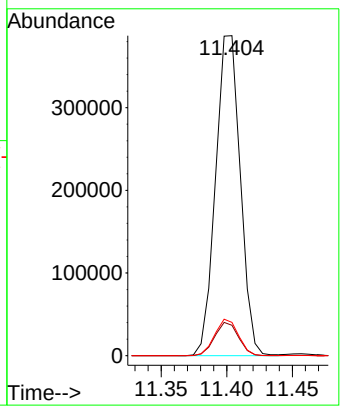


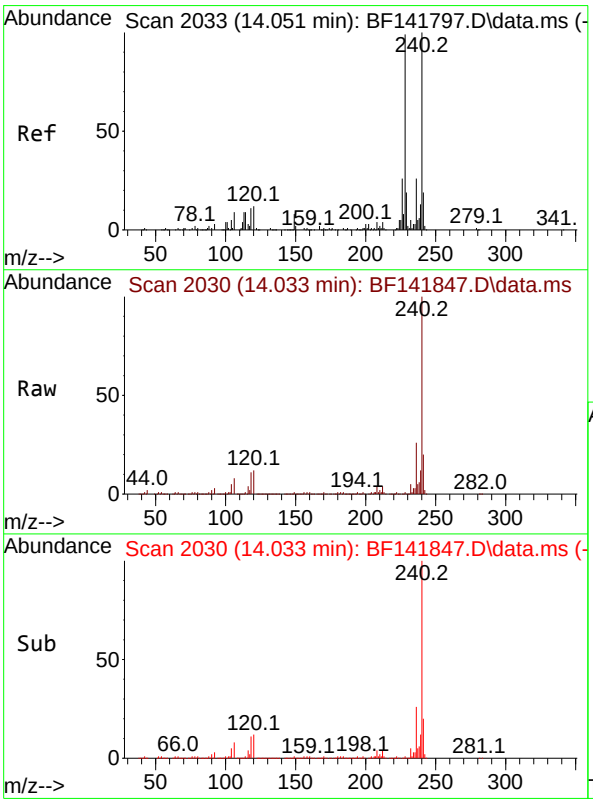
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:188 Resp: 507852

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.9	13.3
80	10.4	9.7	14.5

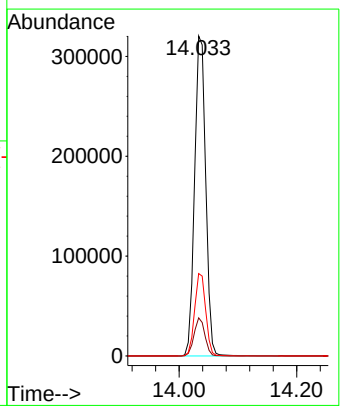


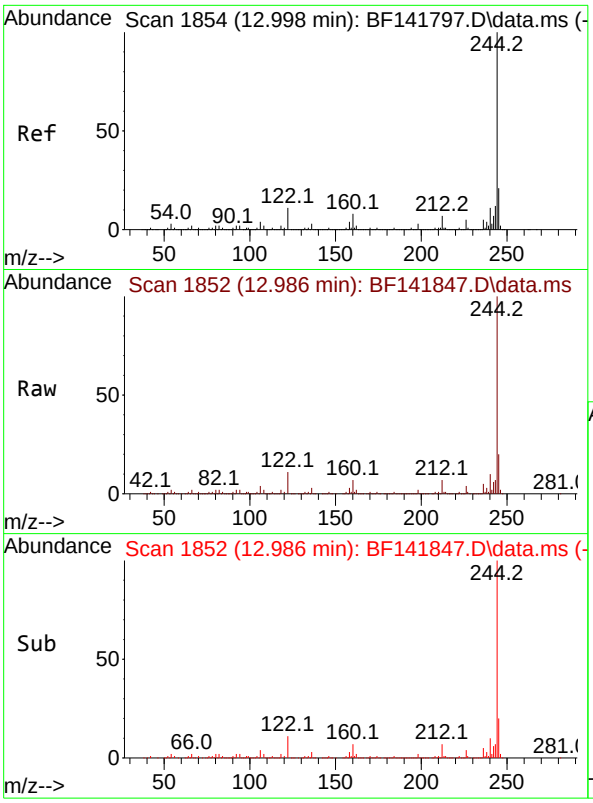


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:240 Resp: 419765

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.7	14.5
236	25.8	21.0	31.4



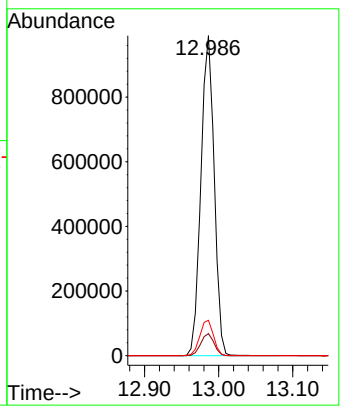


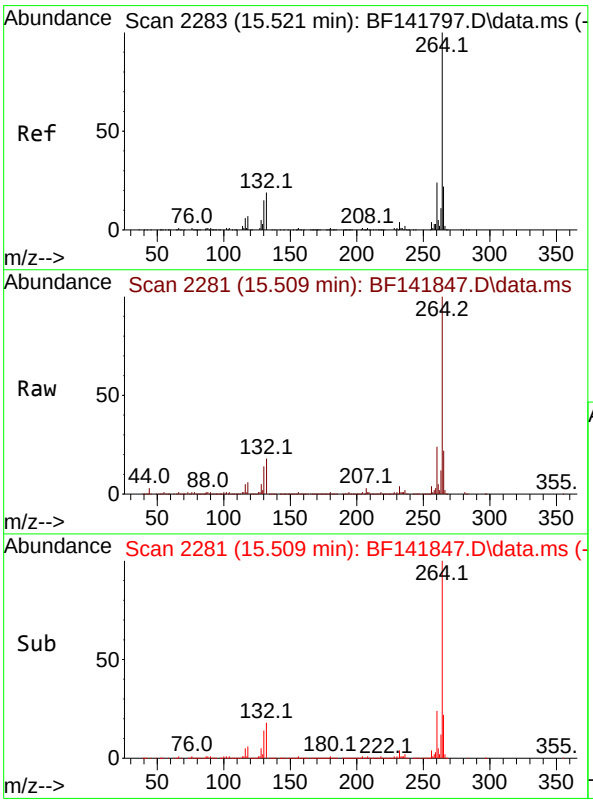
#79
Terphenyl-d14
Concen: 47.557 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Tgt Ion:244 Resp: 1233851

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.1	9.0	13.6

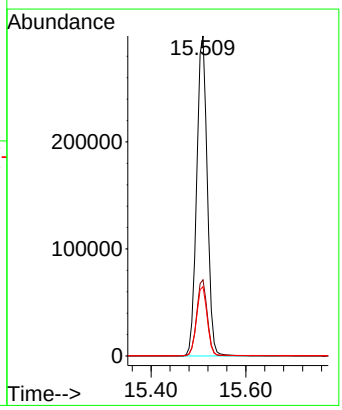




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:264 Resp: 463489

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.7	17.4	26.0



Sample Results: **BF141847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141847.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	27	rVB	1129590	1806638	41.77%	5.755%
2	5.110	502	513	523	rVB2	33009	68671	1.59%	0.219%
3	5.498	573	579	584	rBV	3033031	3989276	92.23%	12.708%
4	6.498	743	749	762	rBV	2939869	4050365	93.64%	12.903%
5	6.887	809	815	820	rBV	857134	1084610	25.08%	3.455%
6	7.439	903	909	914	rBV	1968396	2559468	59.18%	8.154%
7	7.692	947	952	964	rBV	70869	90277	2.09%	0.288%
8	8.163	1027	1032	1048	rVB	1127831	1419371	32.82%	4.522%
9	9.239	1209	1215	1220	rBV	3343526	4325237	100.00%	13.779%
10	9.916	1325	1330	1335	rBV	1191968	1445006	33.41%	4.603%
11	10.627	1446	1451	1458	rBV	228817	279175	6.45%	0.889%
12	10.698	1458	1463	1474	rBV	1841675	2449564	56.63%	7.803%
13	11.398	1577	1582	1590	rBV	974752	1289131	29.80%	4.107%
14	11.921	1665	1671	1685	rBV2	220665	365902	8.46%	1.166%
15	12.710	1800	1805	1814	rBV2	34320	61818	1.43%	0.197%
16	12.986	1846	1852	1863	rBV	2610815	3331388	77.02%	10.613%
17	13.880	1999	2004	2021	rBV	124214	269448	6.23%	0.858%
18	14.033	2024	2030	2041	rVB	893997	1200346	27.75%	3.824%
19	15.509	2274	2281	2294	rBV	814257	1305310	30.18%	4.158%

Sum of corrected areas: 31391001

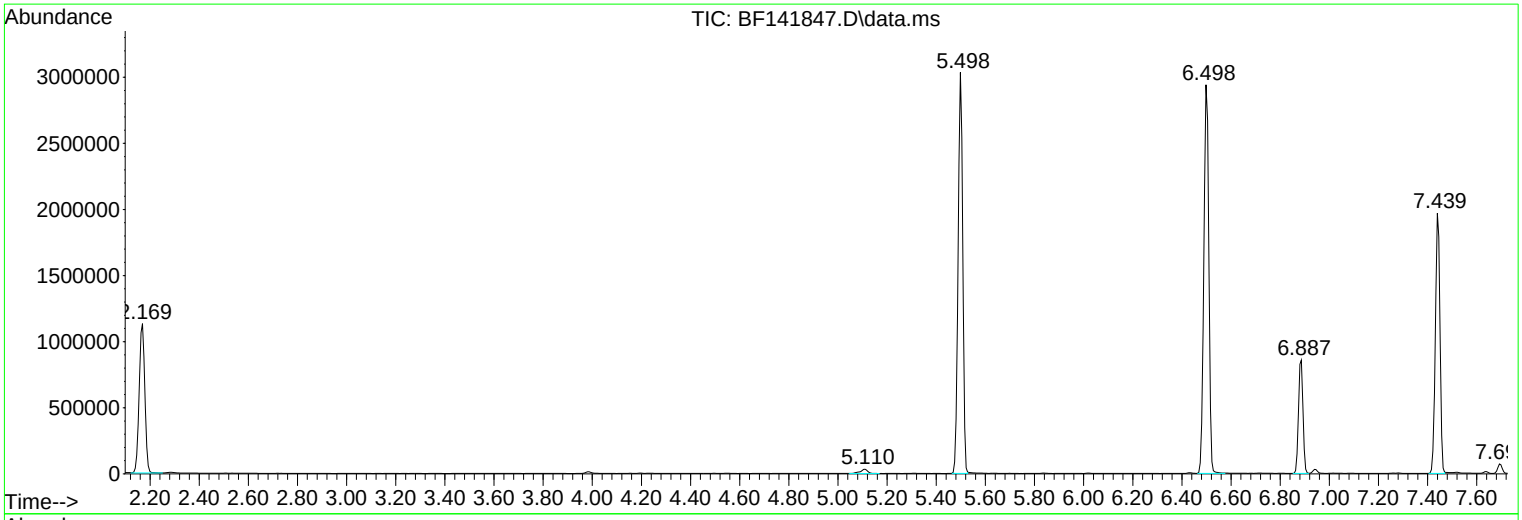
Sample Results: **BF141847.D**

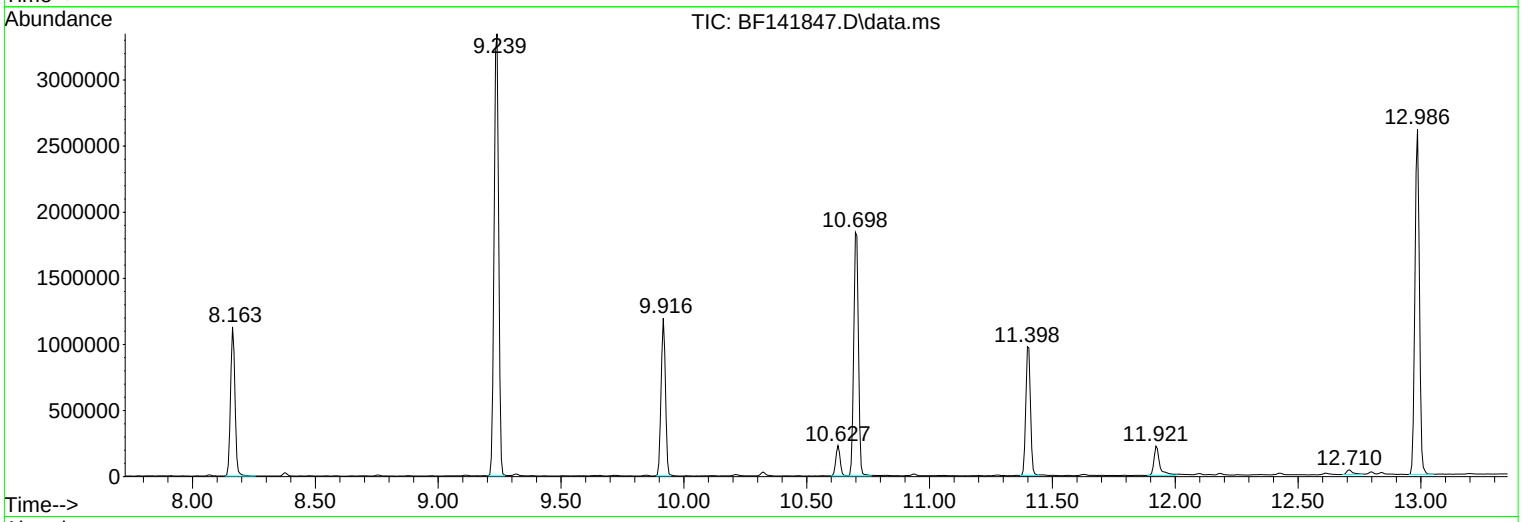
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

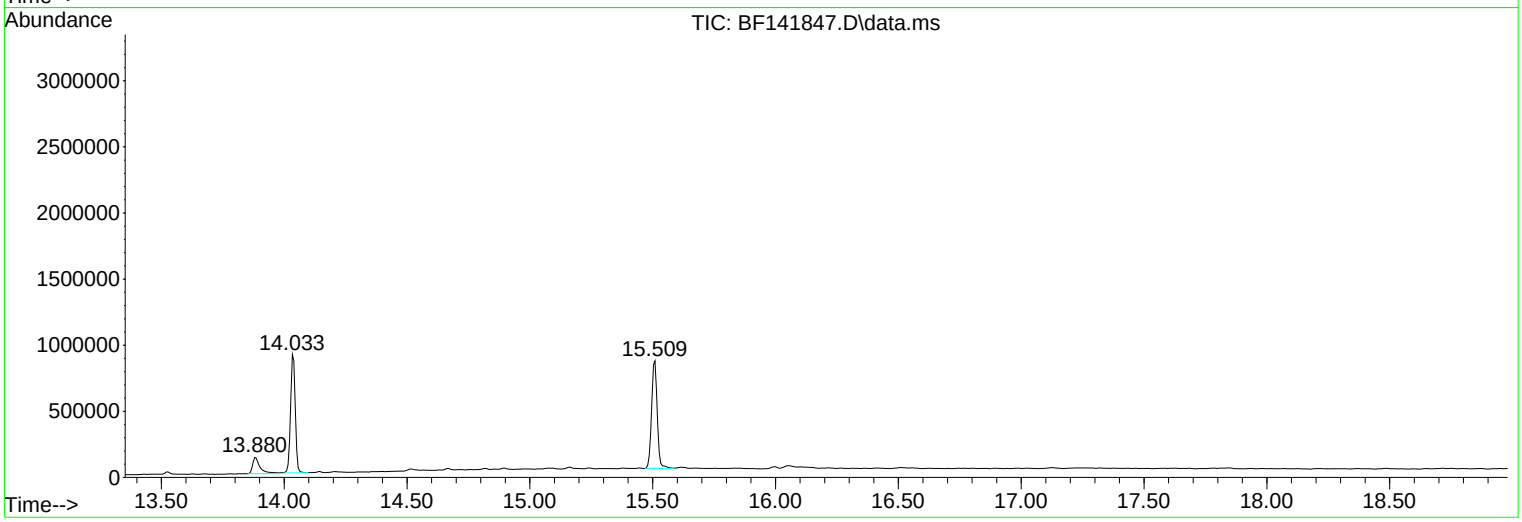
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

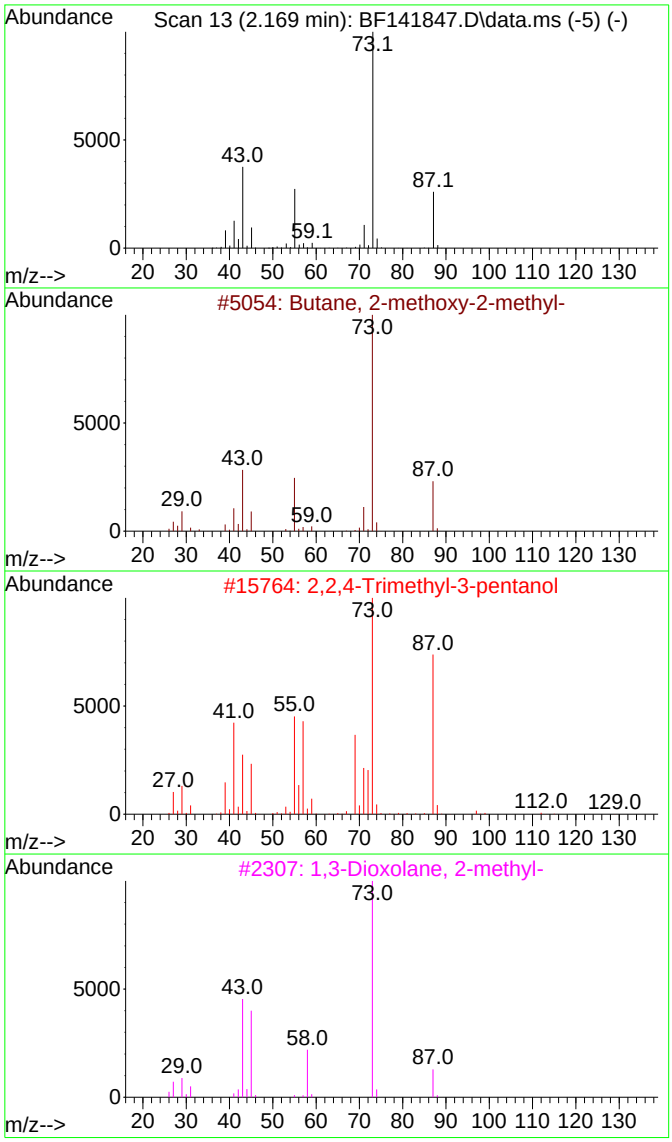
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

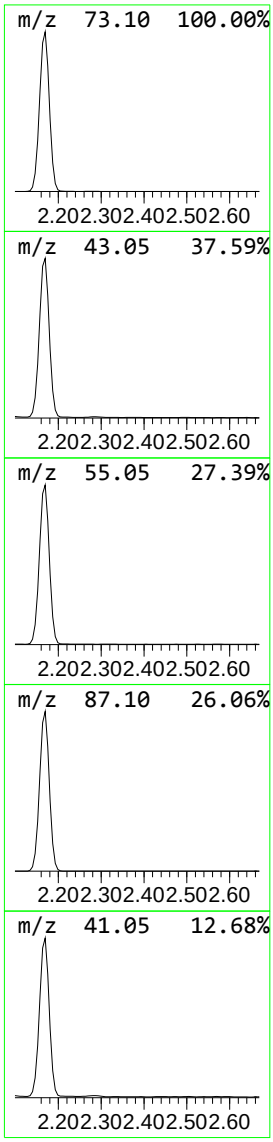
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	33.31 ng	1806640	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

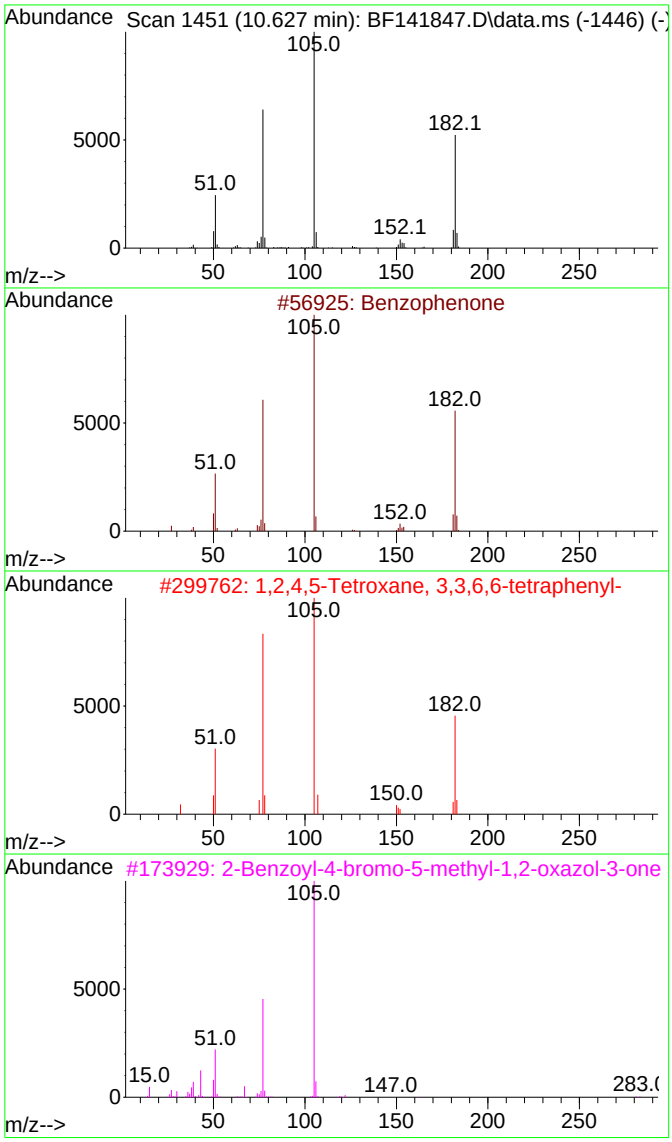
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

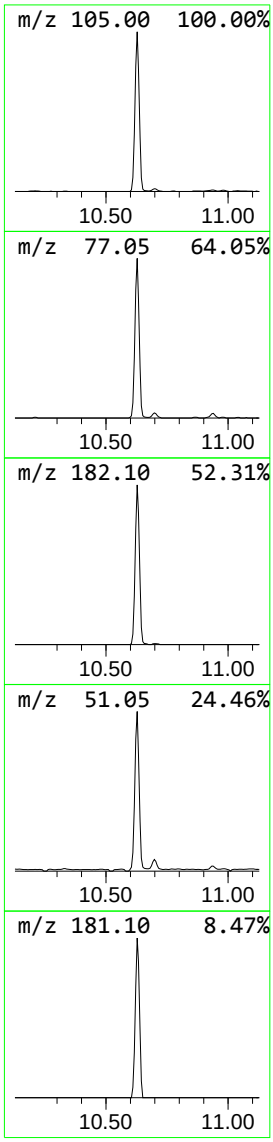
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	3.86 ng	279175	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

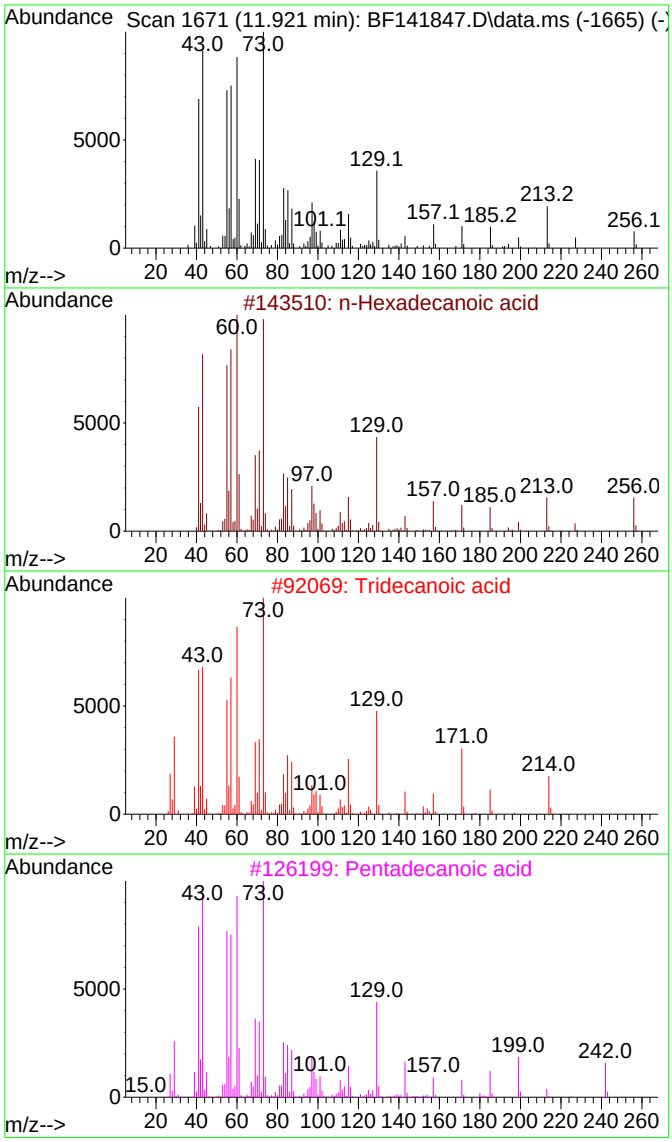
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

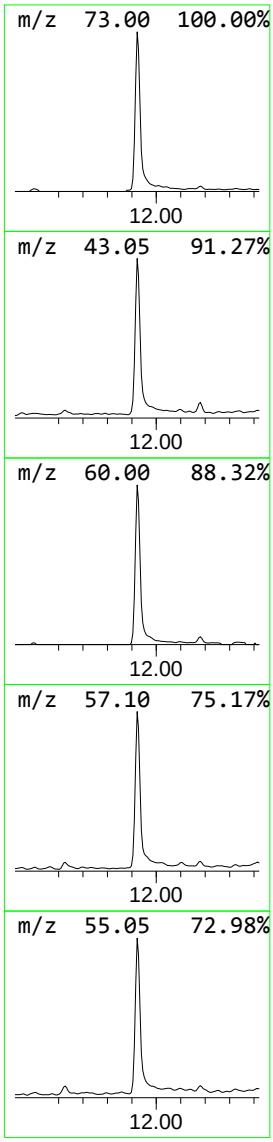
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	5.68 ng	365902	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

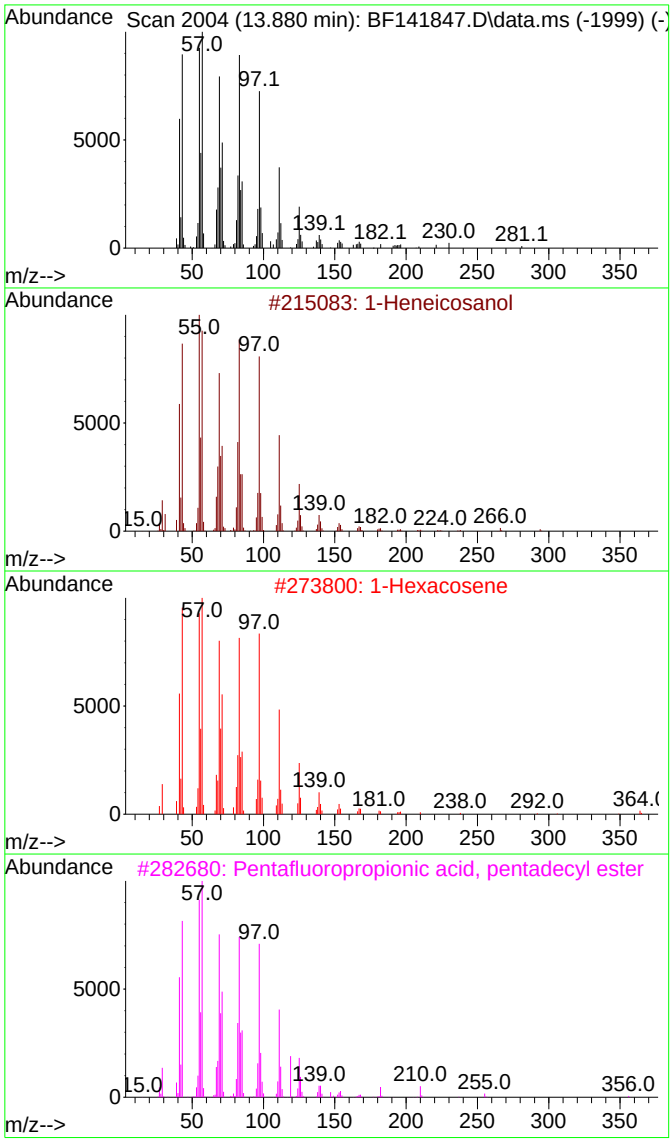
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

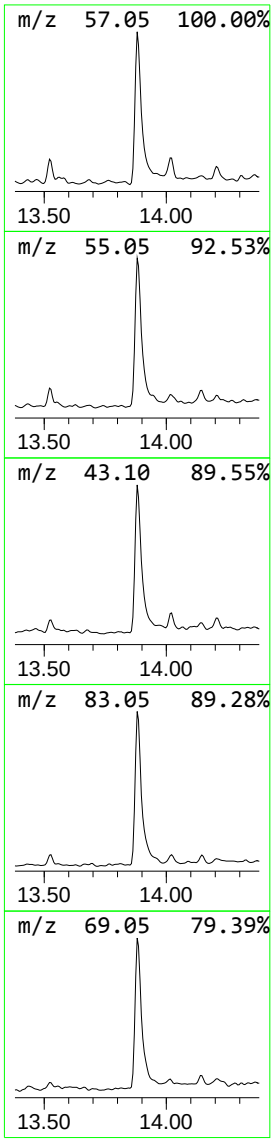
****

Peak Number 4 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	4.49 ng	269448	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Hexacosene	364	C26H52	018835-33-1	94
3	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
4	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.169	33.3	ng	1806640	1	6.887	1084610	20.0
Benzophenone	10.628	3.9	ng	279175	3	9.916	1445010	20.0
n-Hexadecanoic ...	11.922	5.7	ng	365902	4	11.404	1289130	20.0
1-Heneicosanol	13.880	4.5	ng	269448	5	14.033	1200350	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

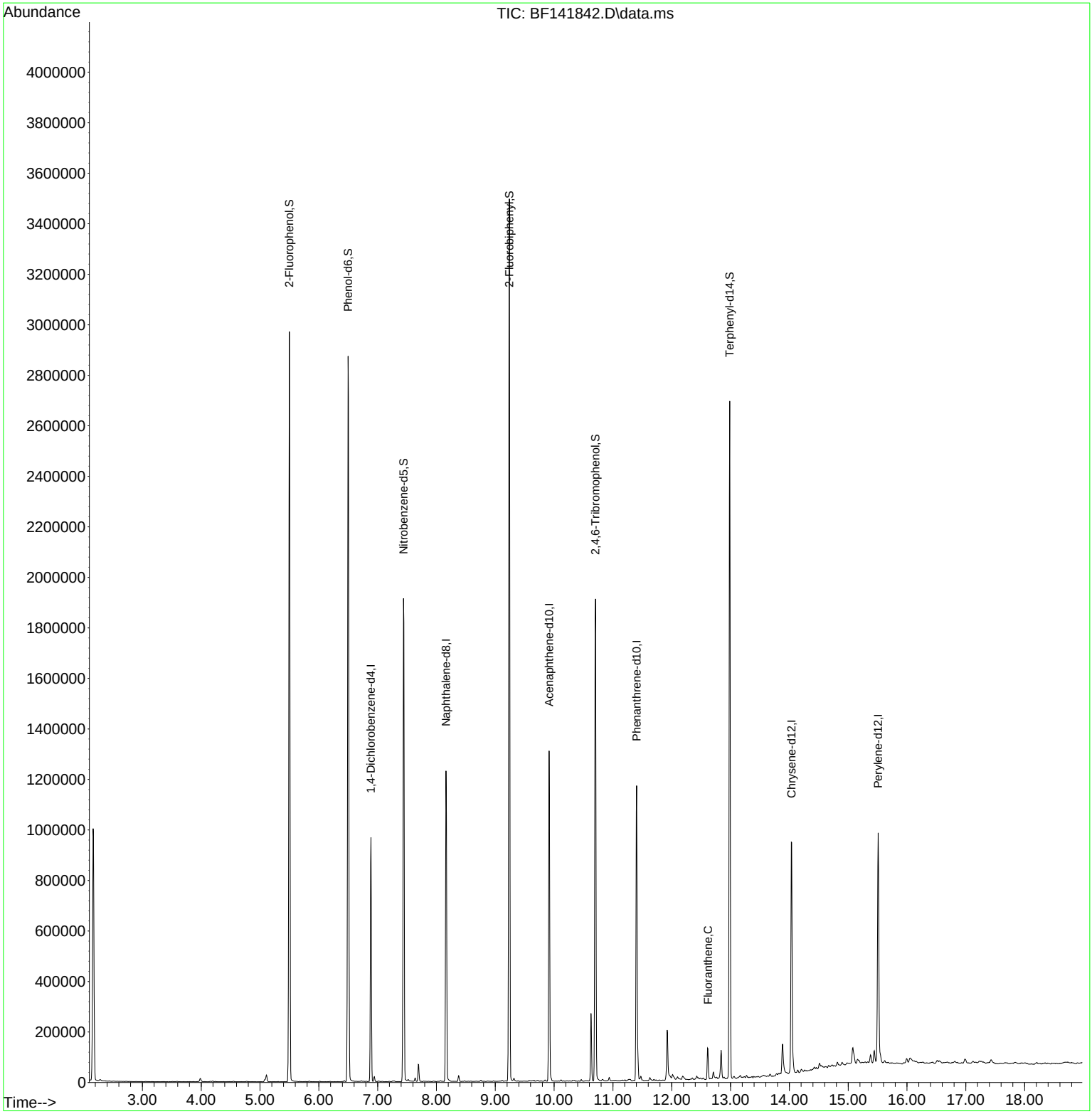
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	199424	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	747735	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	373687	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	582421	20.000	ng	0.00
76) Chrysene-d12	14.039	240	429057	20.000	ng	-0.01
86) Perylene-d12	15.509	264	509930	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1097622	87.898	ng	0.00
7) Phenol-d6	6.498	99	1369174	84.238	ng	-0.01
23) Nitrobenzene-d5	7.439	82	850594	72.713	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	302224	86.147	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1497239	64.245	ng	0.00
79) Terphenyl-d14	12.986	244	1272874	47.998	ng	-0.01
Target Compounds						Qvalue
75) Fluoranthene	12.615	202	72012	2.256	ng	96

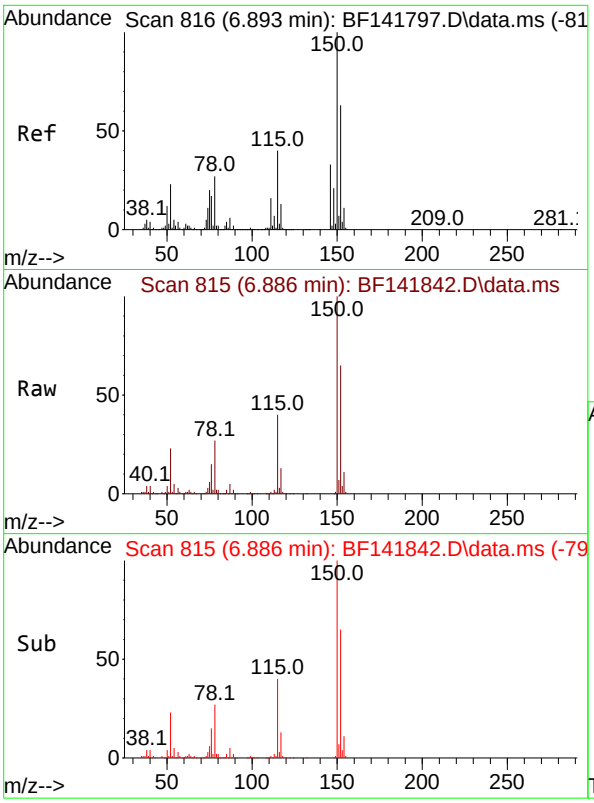
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



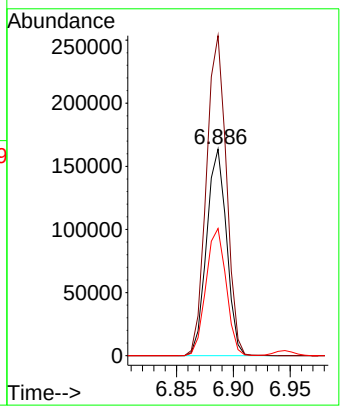


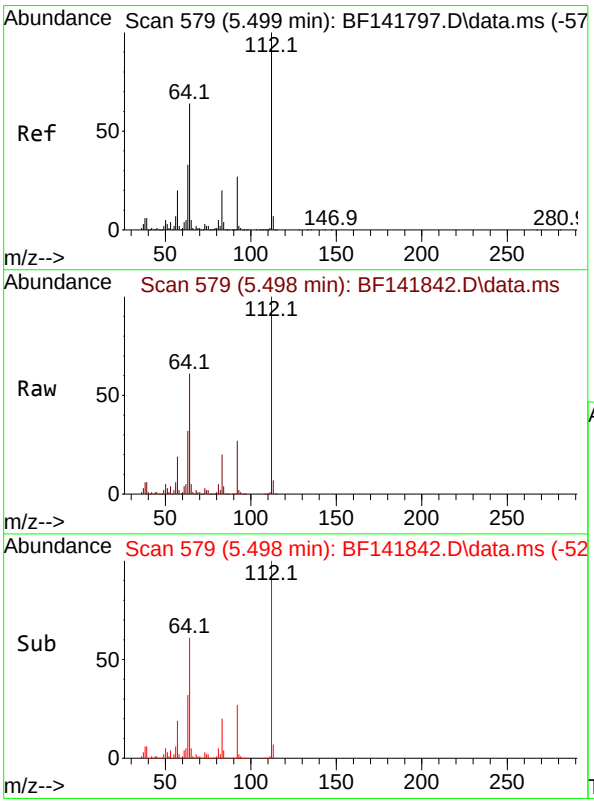
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:152 Resp: 199424

Ion	Ratio	Lower	Upper
152	100		
150	155.0	127.5	191.3
115	61.6	51.4	77.2

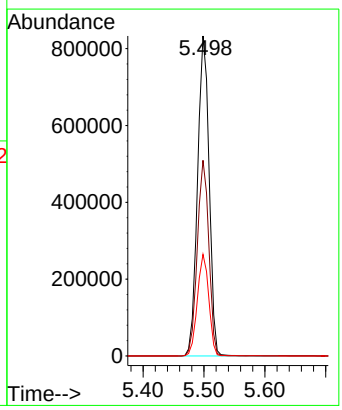


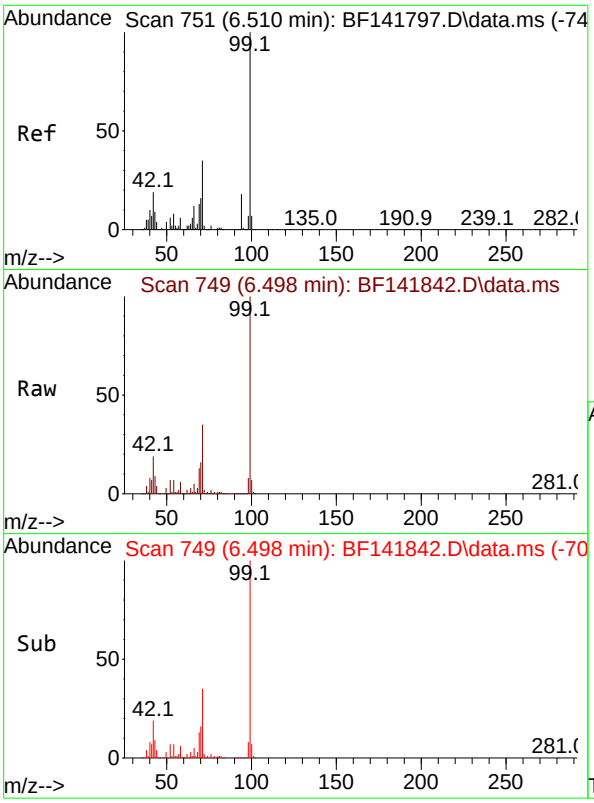


#5
2-Fluorophenol
Concen: 87.898 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:112 Resp: 1097622

Ion	Ratio	Lower	Upper
112	100		
64	61.2	51.3	76.9
63	31.7	26.2	39.4



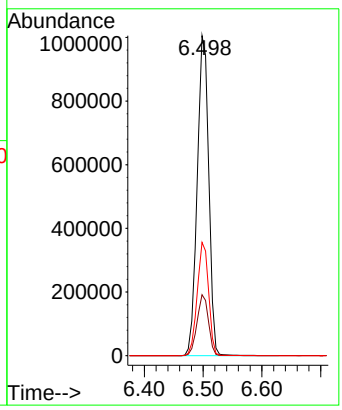


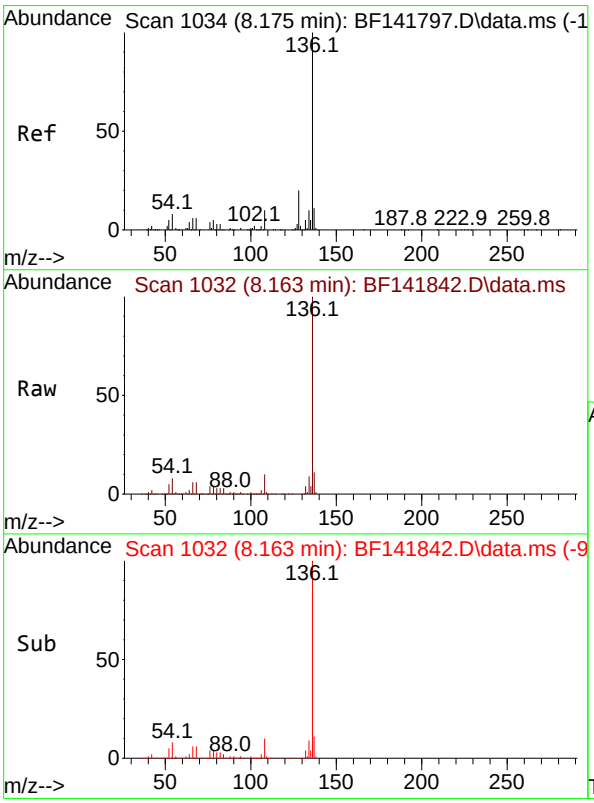
#7
Phenol-d6
Concen: 84.238 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion: 99 Resp: 1369174

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	35.4	28.2	42.2

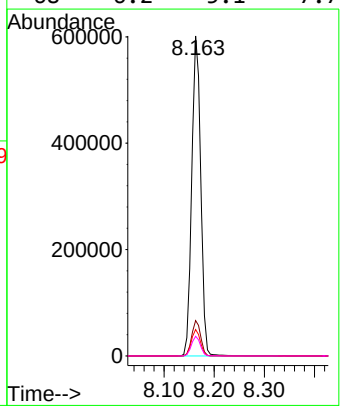


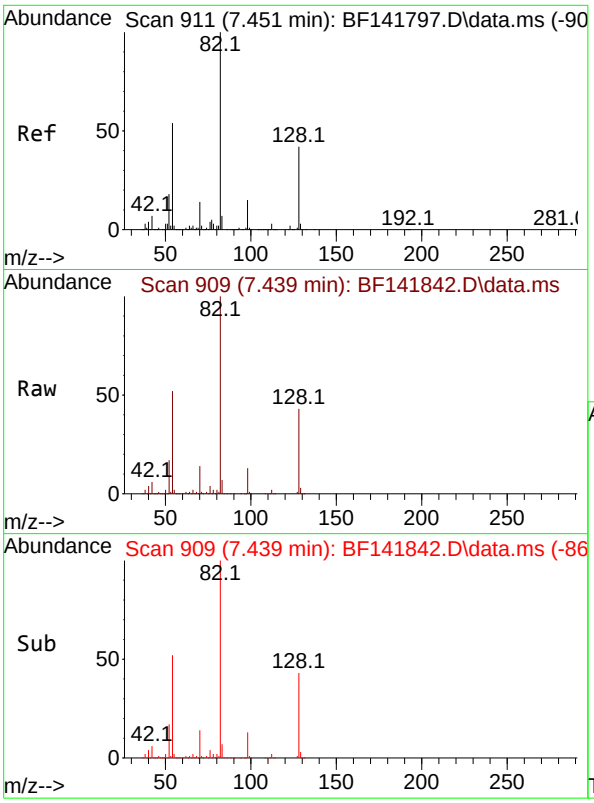


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:136 Resp: 747735

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.3	6.9	10.3
68	6.2	5.1	7.7



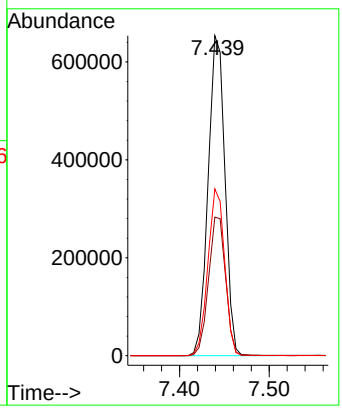


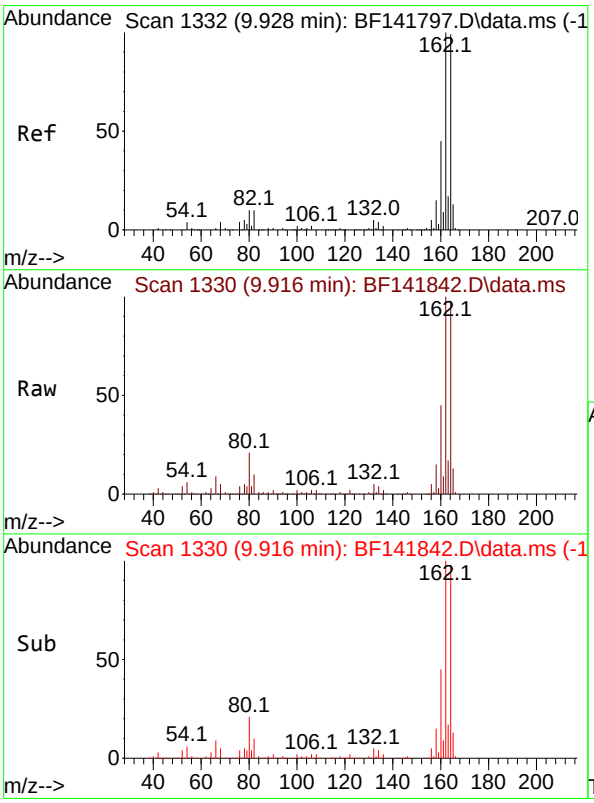
#23
Nitrobenzene-d5
Concen: 72.713 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion: 82 Resp: 850594

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.5	50.3
54	52.1	42.7	64.1

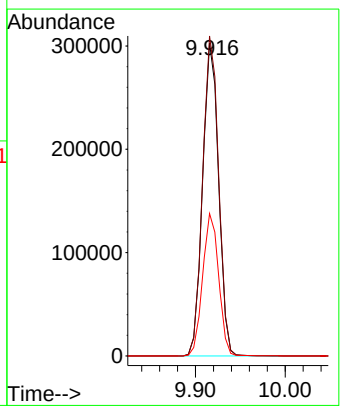


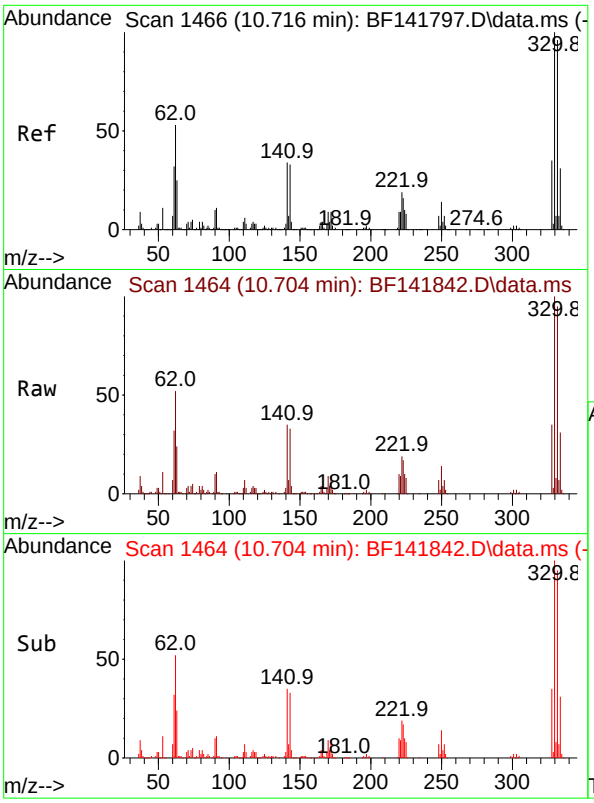


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:164 Resp: 373687

Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.6	120.8
160	45.5	36.3	54.5



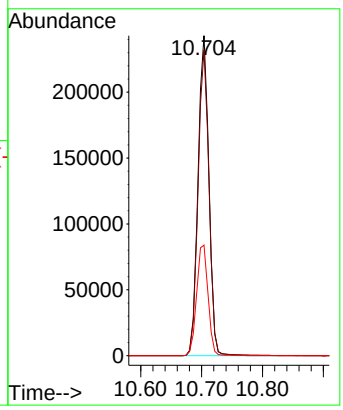


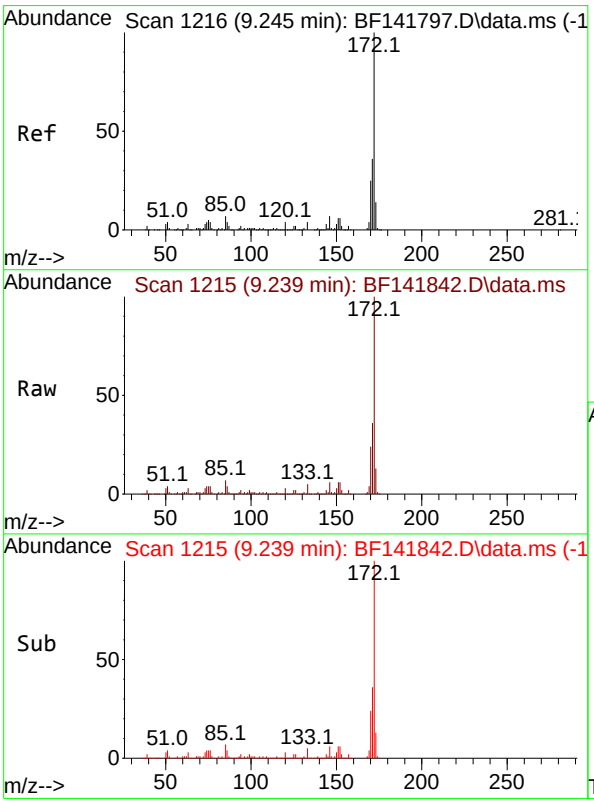
#42
2,4,6-Tribromophenol
Concen: 86.147 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:330 Resp: 302224

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.6	115.0
141	36.2	29.0	43.4

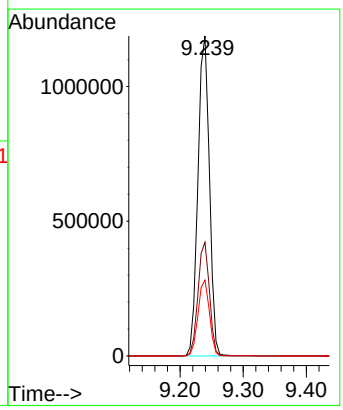


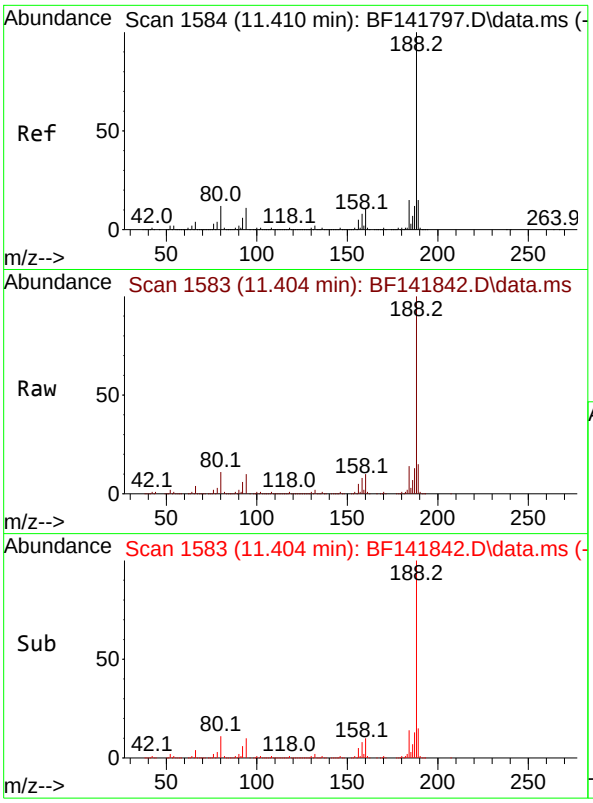


#45
2-Fluorobiphenyl
Concen: 64.245 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:172 Resp: 1497239

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.7	19.7	29.5



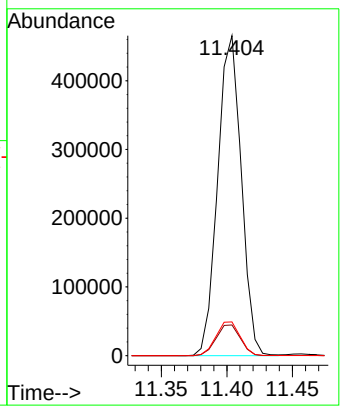


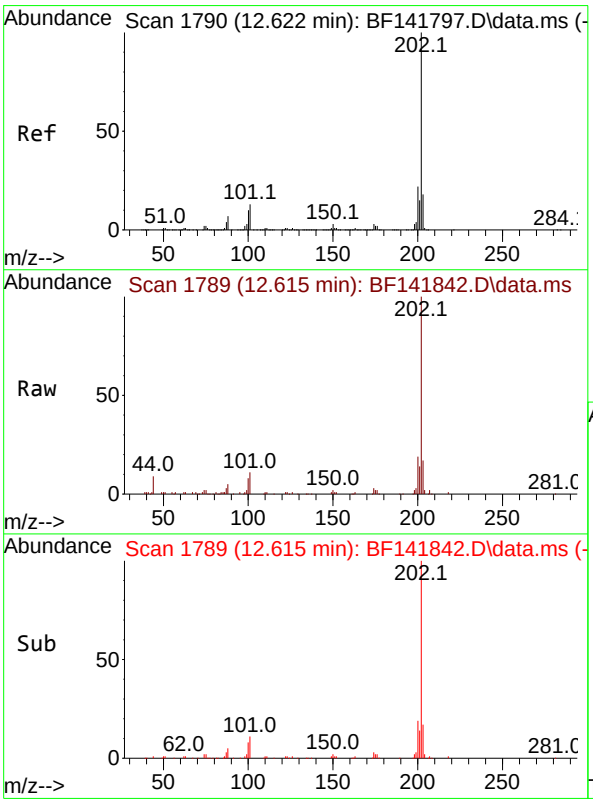
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:188 Resp: 582421

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.9	13.3
80	10.5	9.7	14.5

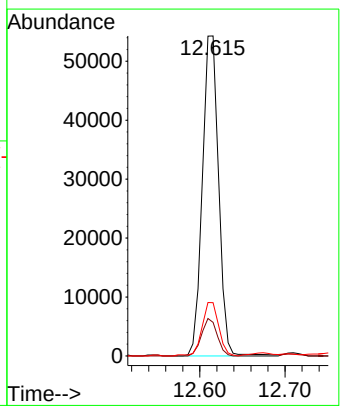


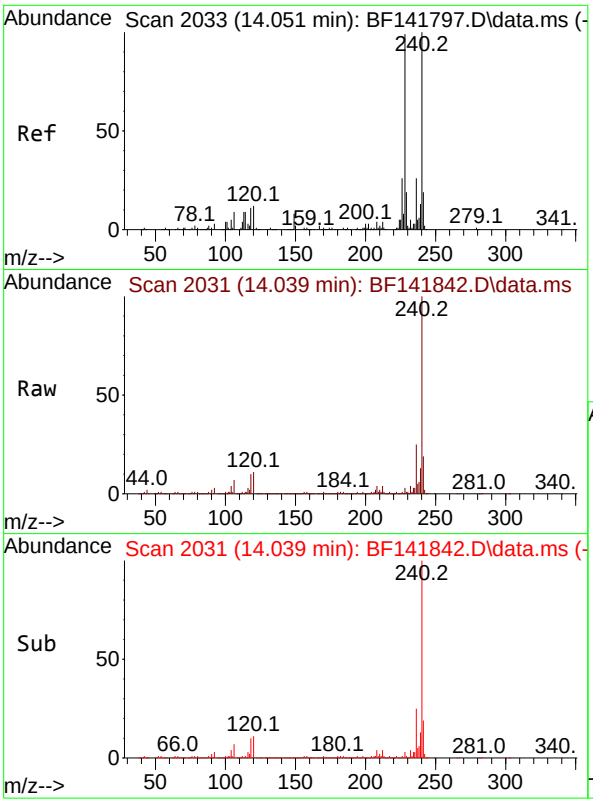


#75
Fluoranthene
Concen: 2.256 ng
RT: 12.615 min Scan# 1789
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:202 Resp: 72012

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	32.8
203	16.7	0.0	38.0



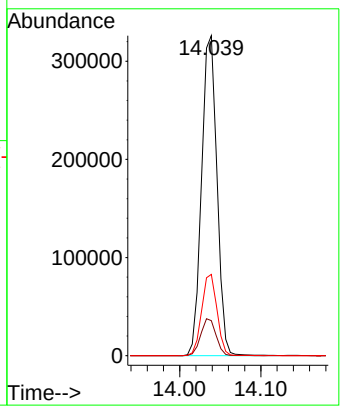


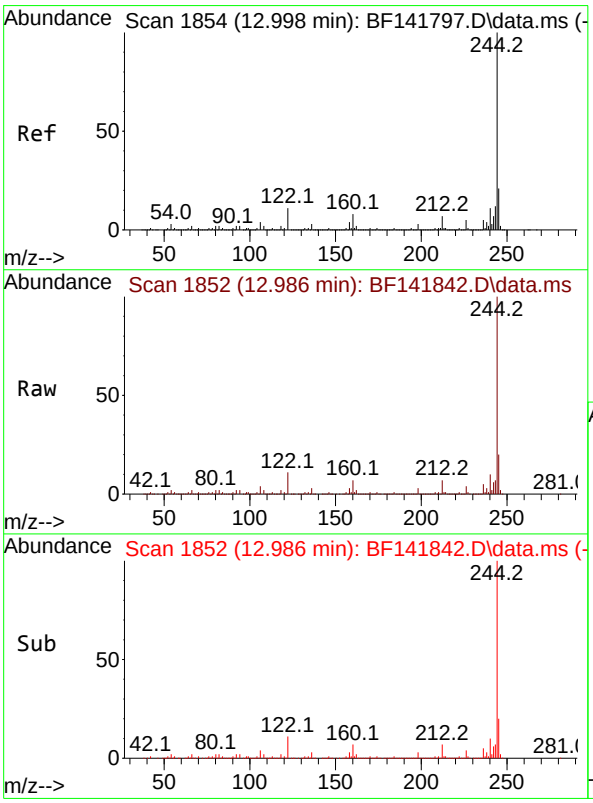
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:240 Resp: 429057

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.4	21.0	31.4

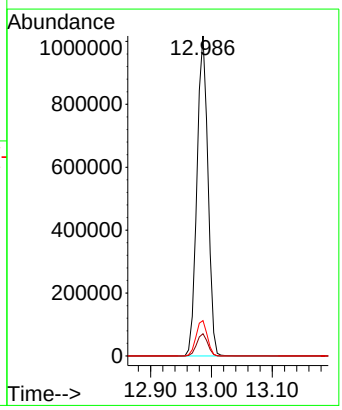


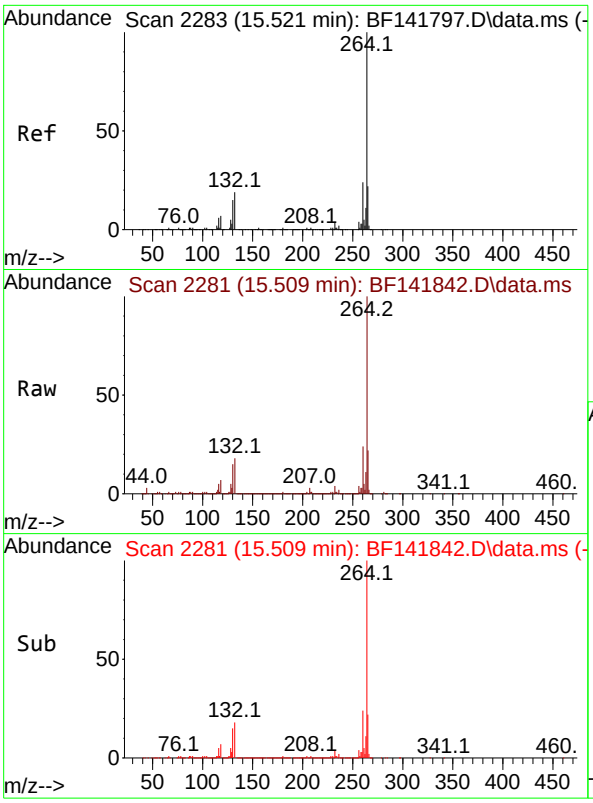


#79
Terphenyl-d14
Concen: 47.998 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:244 Resp: 1272874

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.0	9.0	13.6



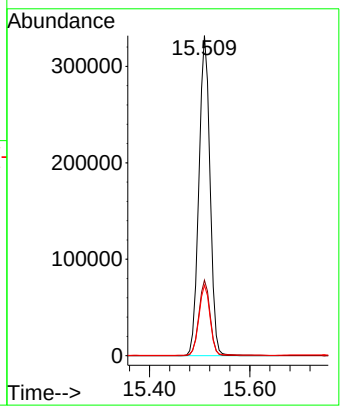


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Tgt Ion:264 Resp: 509930

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	22.0	17.4	26.0



Sample Results: **BF141842.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141842.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	5	12	26	rVB	997941	1608503	36.45%	4.938%
2	5.110	503	513	521	rVB2	26998	54959	1.25%	0.169%
3	5.498	573	579	584	rBV	2969812	3884369	88.03%	11.926%
4	6.498	743	749	763	rBV	2871789	3961732	89.78%	12.163%
5	6.886	809	815	820	rBV	965760	1192292	27.02%	3.661%
6	7.439	903	909	915	rBV	1912680	2498340	56.62%	7.670%
7	7.692	948	952	963	rVB	68017	88362	2.00%	0.271%
8	8.163	1027	1032	1050	rBV	1229529	1535441	34.80%	4.714%
9	9.239	1209	1215	1220	rBV	3492974	4412466	100.00%	13.547%
10	9.916	1325	1330	1335	rBV	1307569	1618597	36.68%	4.969%
11	10.627	1446	1451	1458	rVB	267259	325279	7.37%	0.999%
12	10.704	1458	1464	1478	rBV	1908285	2462027	55.80%	7.559%
13	11.404	1578	1583	1591	rBV	1166991	1578264	35.77%	4.846%
14	11.921	1664	1671	1683	rBV2	199353	343031	7.77%	1.053%
15	12.610	1784	1788	1794	rBV	123512	164463	3.73%	0.505%
16	12.839	1821	1827	1833	rVB	109792	157769	3.58%	0.484%
17	12.986	1846	1852	1857	rBV	2679728	3370918	76.40%	10.349%
18	13.880	2000	2004	2022	rVB	116441	225008	5.10%	0.691%
19	14.033	2024	2030	2044	rVV	912900	1362213	30.87%	4.182%
20	15.080	2203	2208	2217	rVB	61865	140485	3.18%	0.431%
21	15.380	2256	2259	2265	rVB	31810	46883	1.06%	0.144%
22	15.445	2266	2270	2274	rVV	47890	75281	1.71%	0.231%
23	15.509	2275	2281	2294	rVB	910258	1464418	33.19%	4.496%

Sum of corrected areas: 32571100

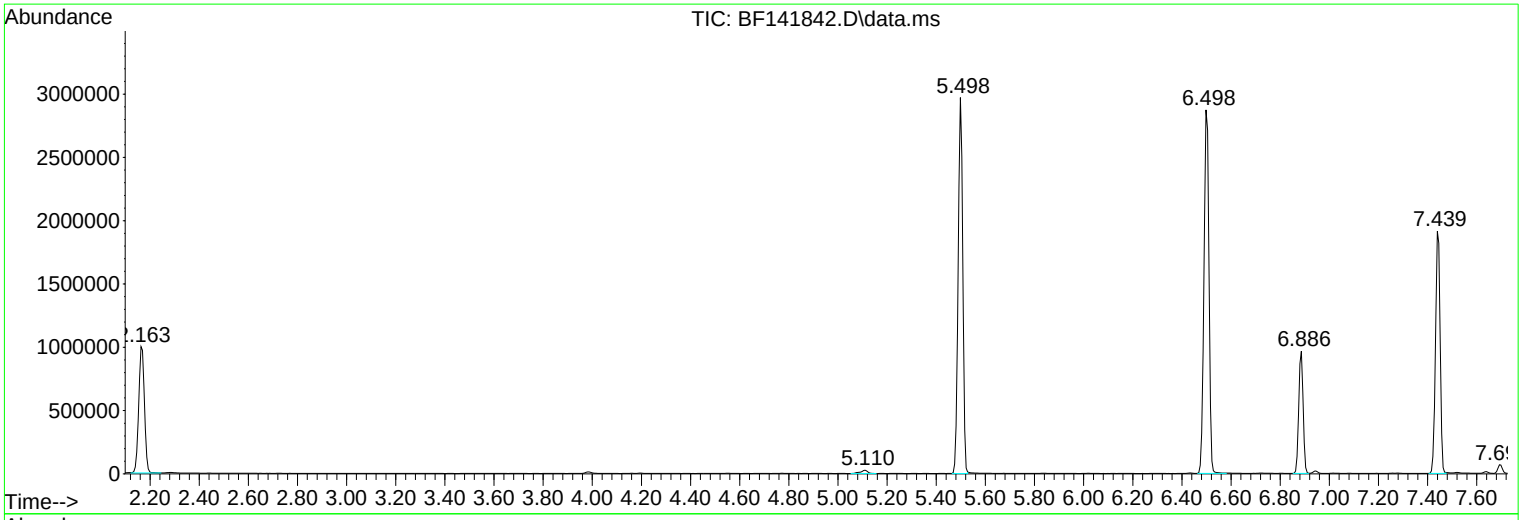
Sample Results: **BF141842.D**

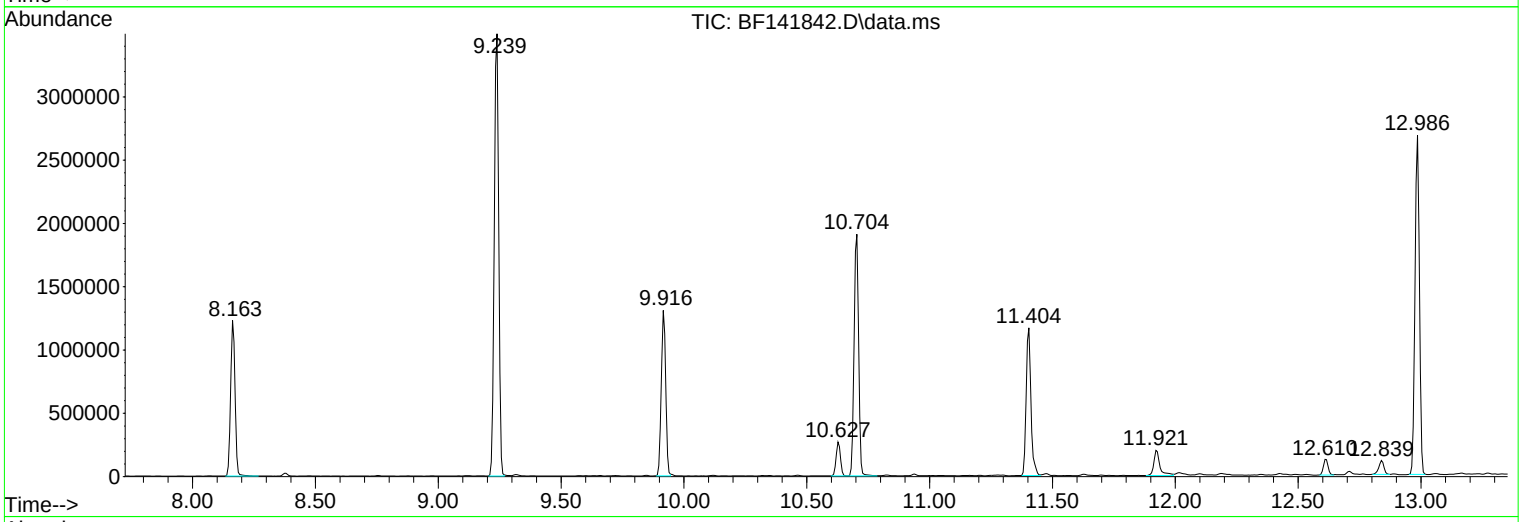
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

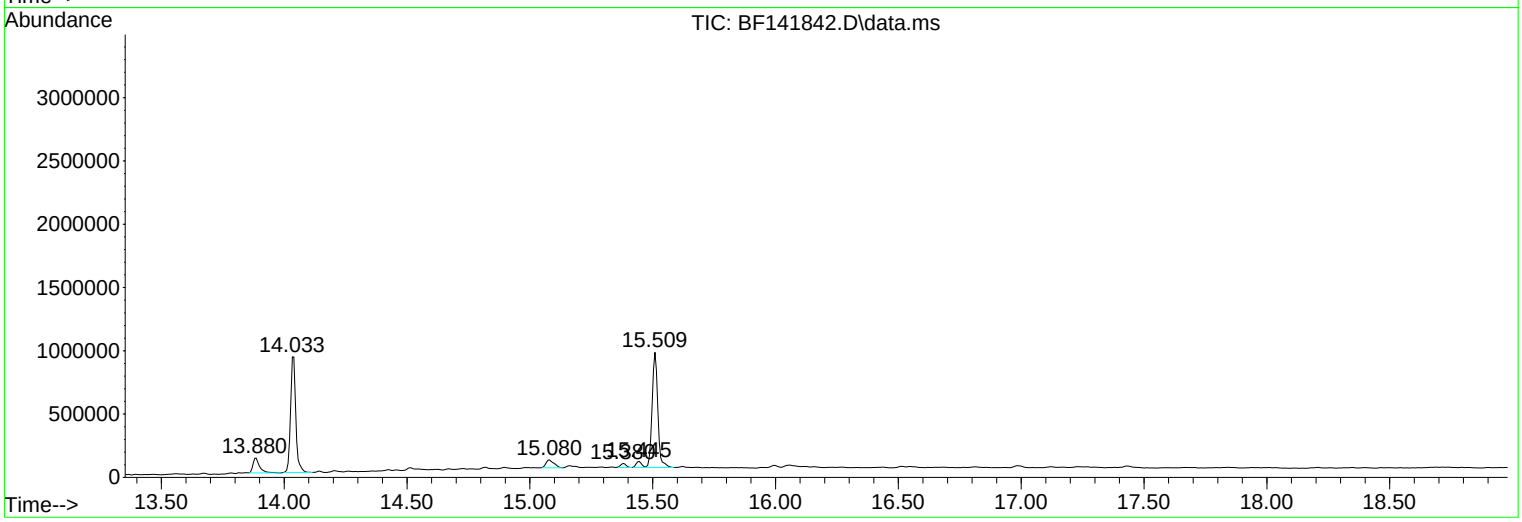
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

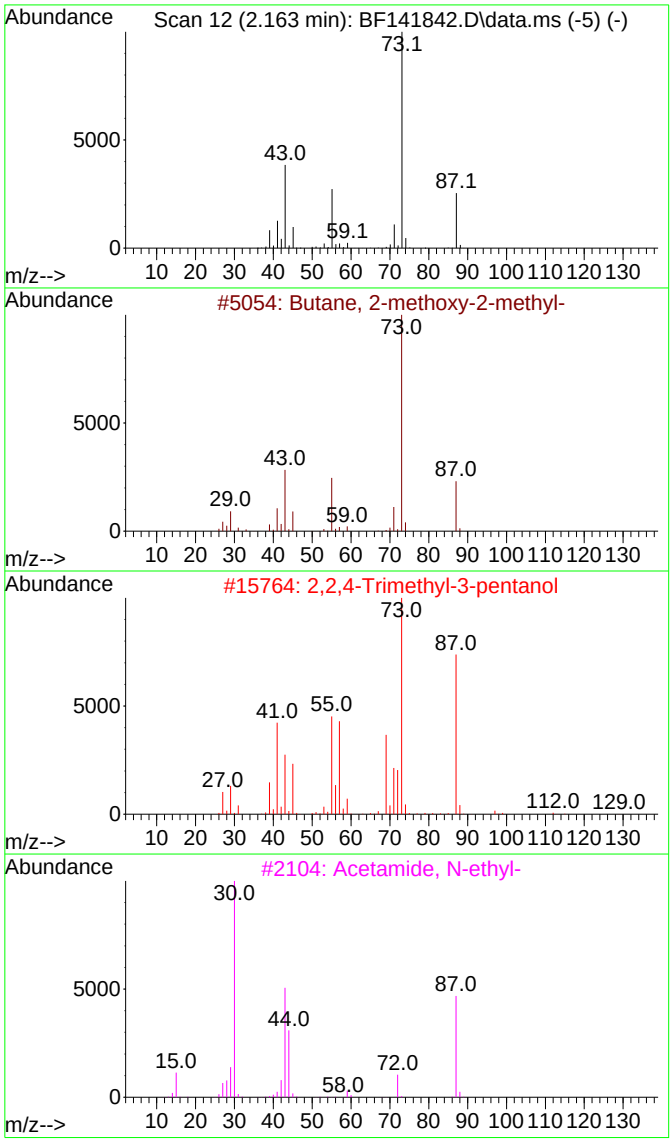
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

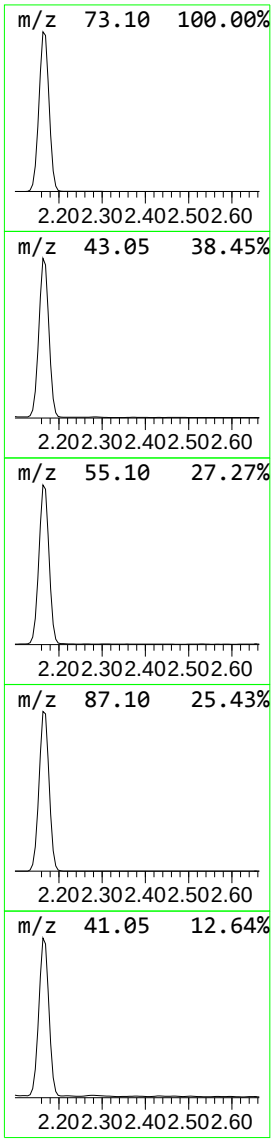
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	26.98 ng	1608500	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

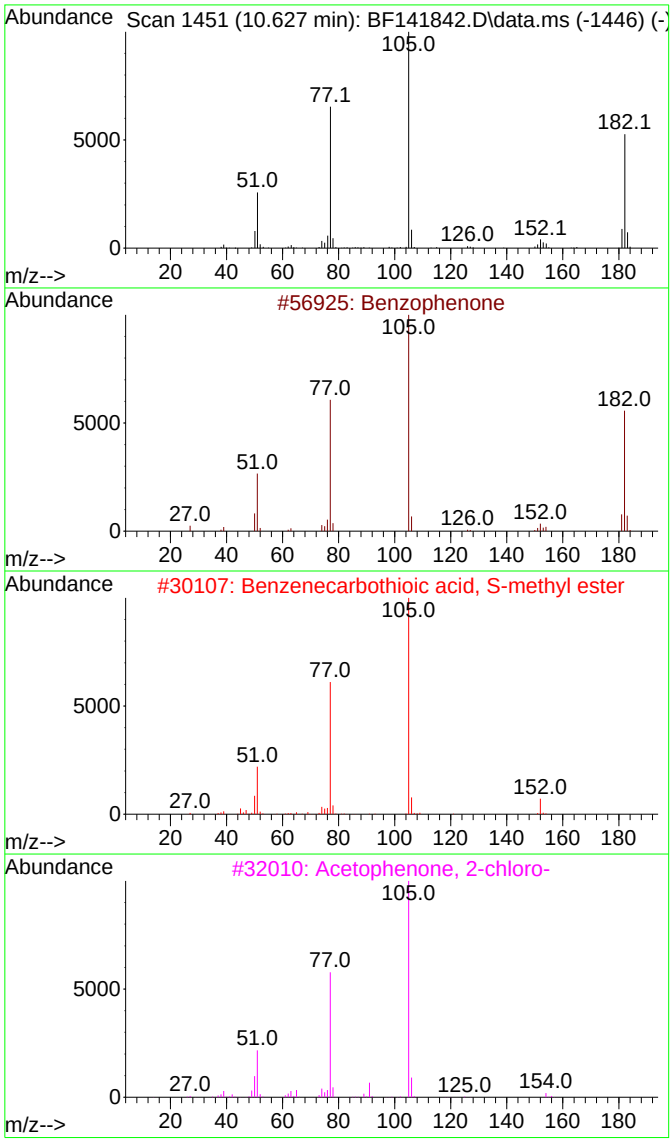
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

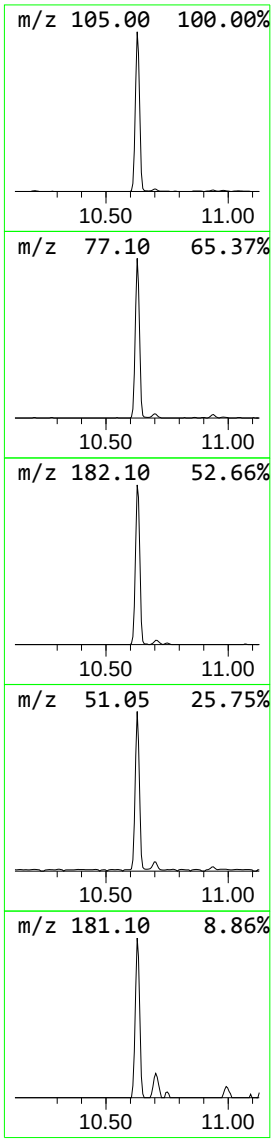
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.02 ng	325279	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzoyl bromide	184	C7H5BrO	000618-32-6	47
5	N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

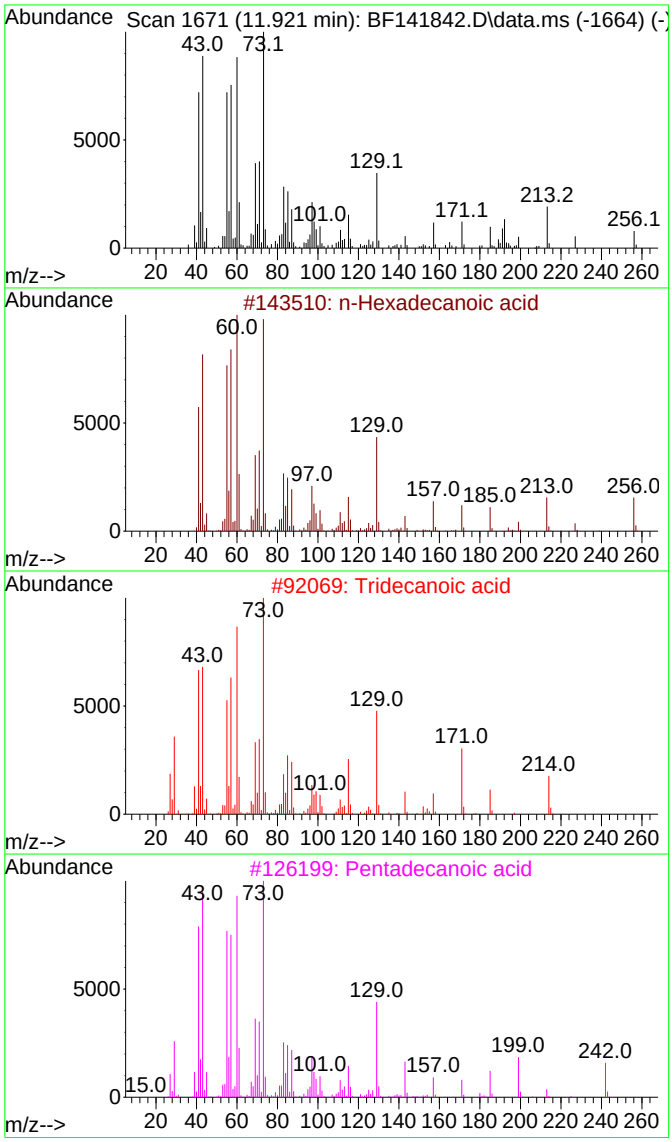
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

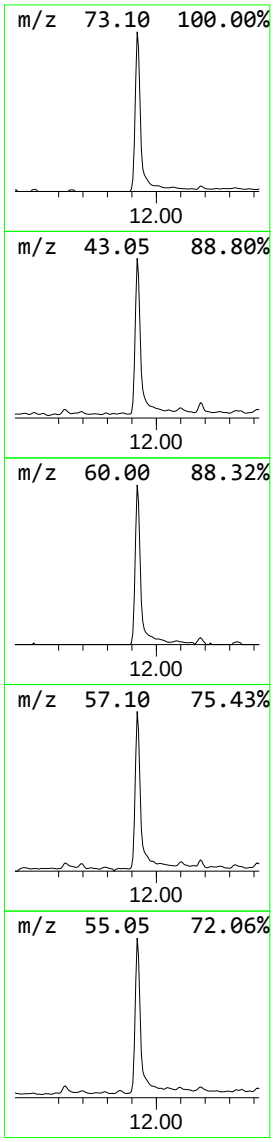
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.921	4.35 ng	343031	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

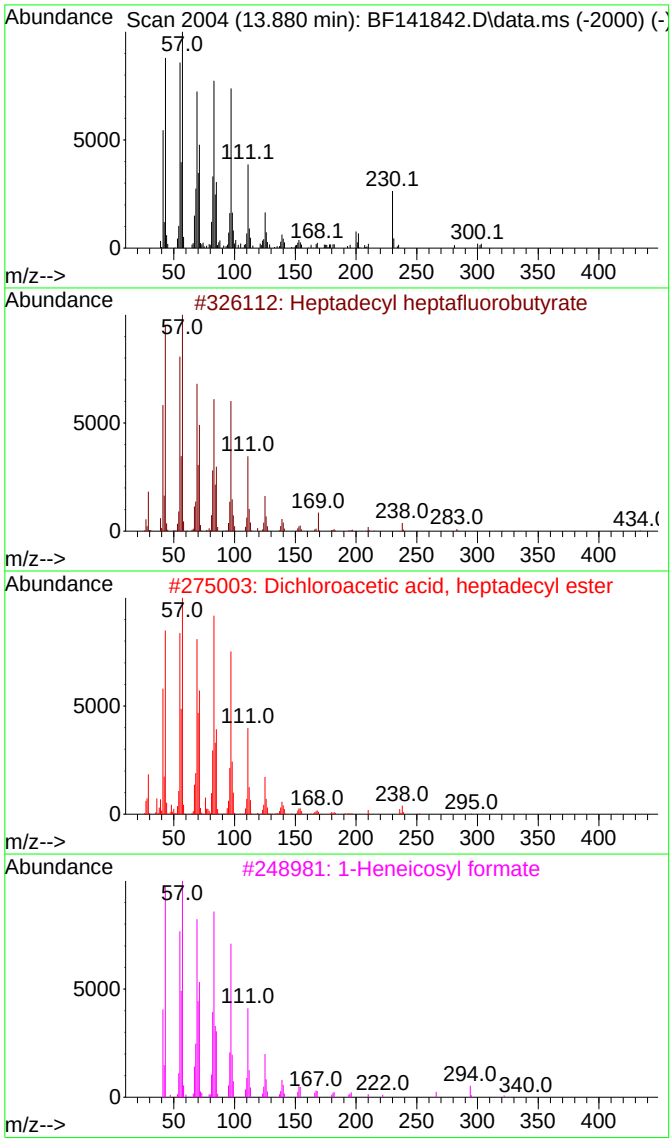
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

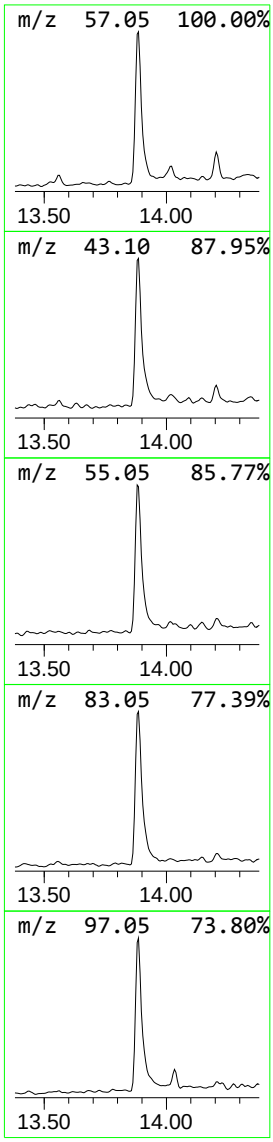
****

Peak Number 5 Heptadecyl heptafluorobutyrate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.30 ng	225008	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5	1-Hexacosene	364	C26H52	018835-33-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.163	27.0	ng	1608500	1	6.886	1192290	20.0
Benzophenone	10.627	4.0	ng	325279	3	9.916	1618600	20.0
n-Hexadecanoic ...	11.921	4.3	ng	343031	4	11.404	1578260	20.0
Heptadecyl hept...	13.880	3.3	ng	225008	5	14.039	1362210	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 06 15:50:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

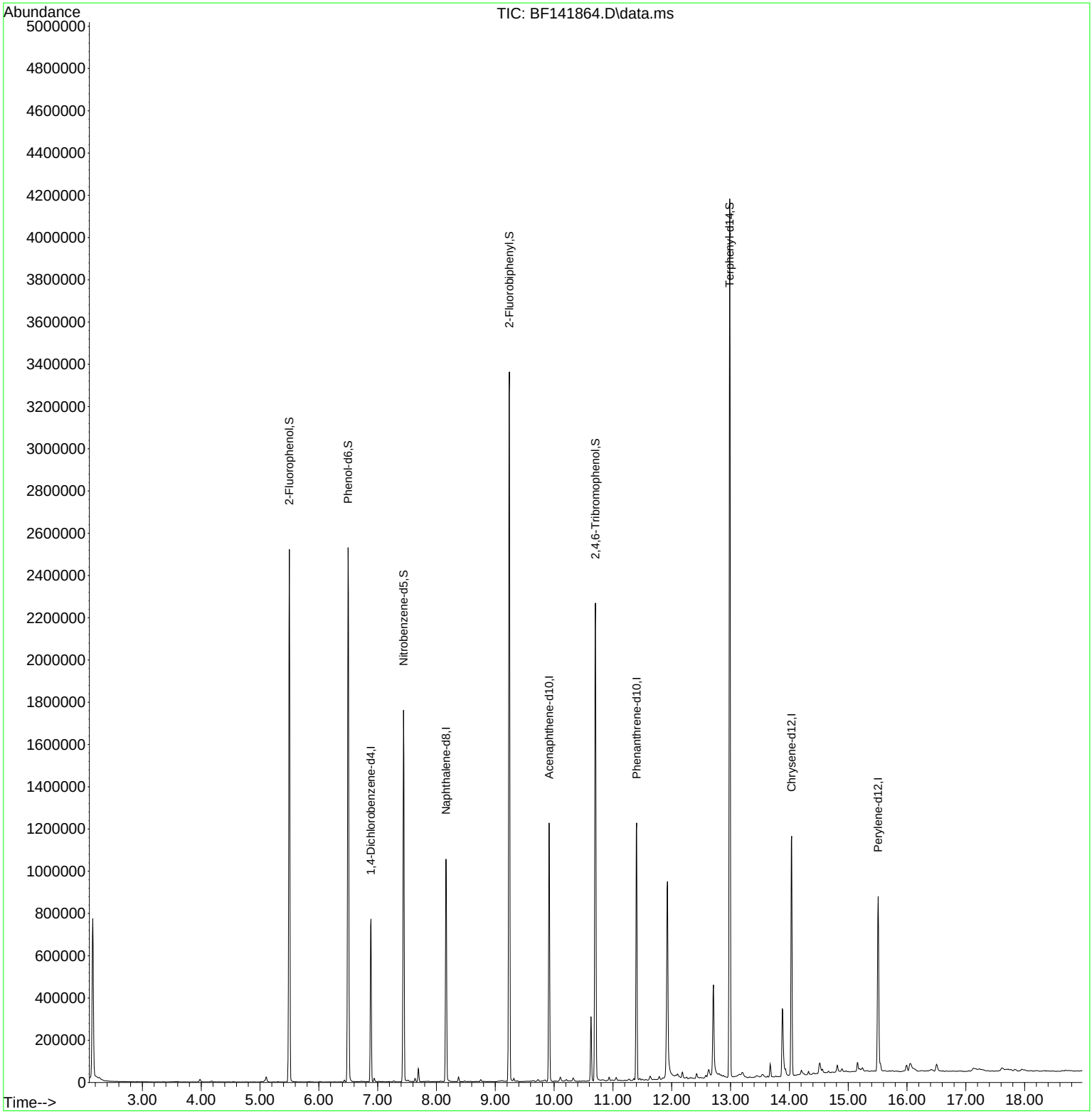
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	163469	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	639781	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	350300	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	621587	20.000	ng	0.00
76) Chrysene-d12	14.039	240	547828	20.000	ng	-0.01
86) Perylene-d12	15.509	264	479609	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	938894	91.724	ng	0.00
7) Phenol-d6	6.498	99	1205625	90.491	ng	-0.01
23) Nitrobenzene-d5	7.439	82	771678	77.098	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	386471	117.516	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1491514	68.272	ng	0.00
79) Terphenyl-d14	12.986	244	1977777	58.410	ng	-0.01
Target Compounds						Qvalue

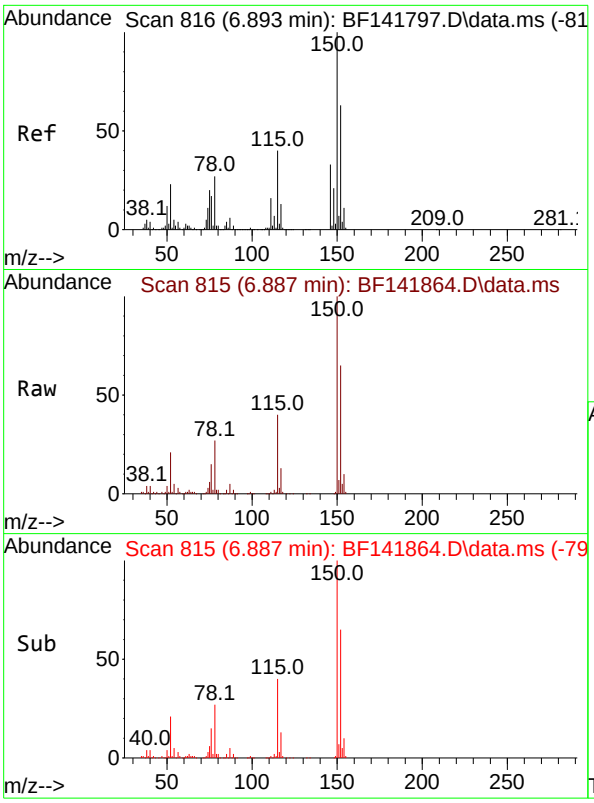
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 06 15:50:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



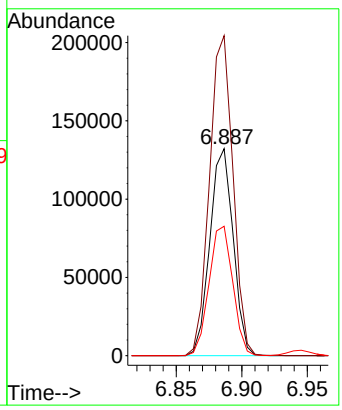


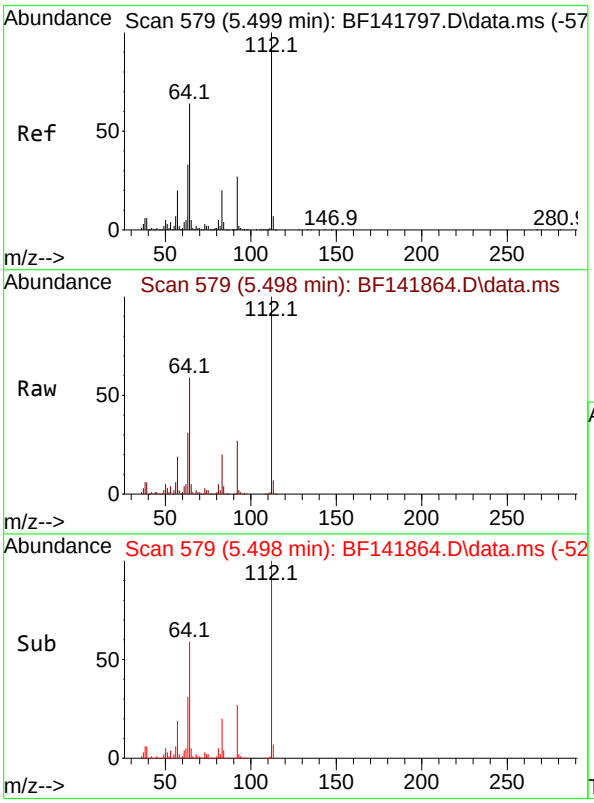
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:152 Resp: 163469

Ion	Ratio	Lower	Upper
152	100		
150	154.6	127.5	191.3
115	62.5	51.4	77.2

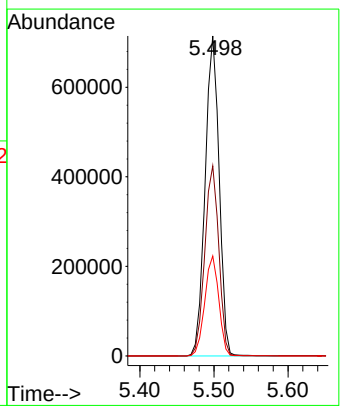


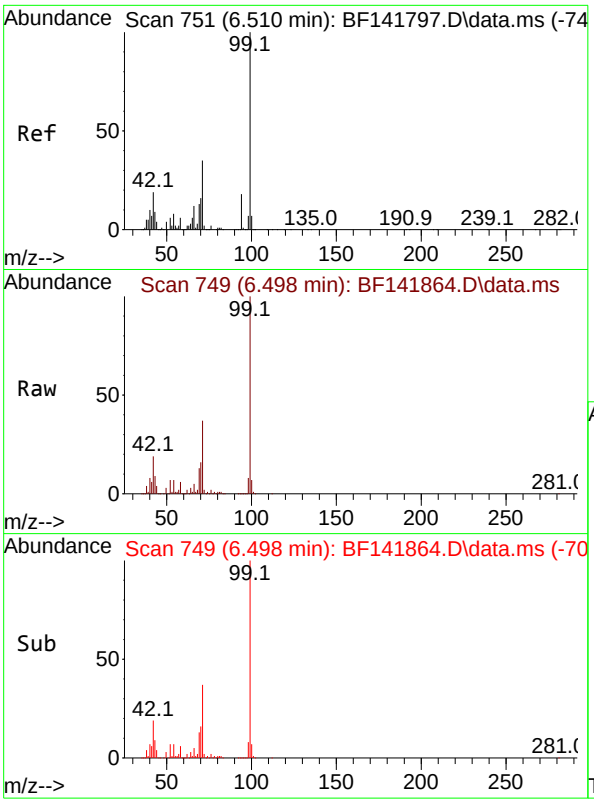


#5
2-Fluorophenol
Concen: 91.724 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:112 Resp: 938894

Ion	Ratio	Lower	Upper
112	100		
64	59.4	51.3	76.9
63	31.2	26.2	39.4



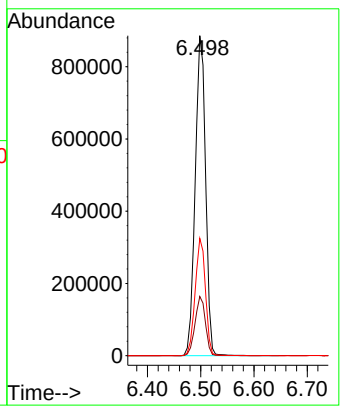


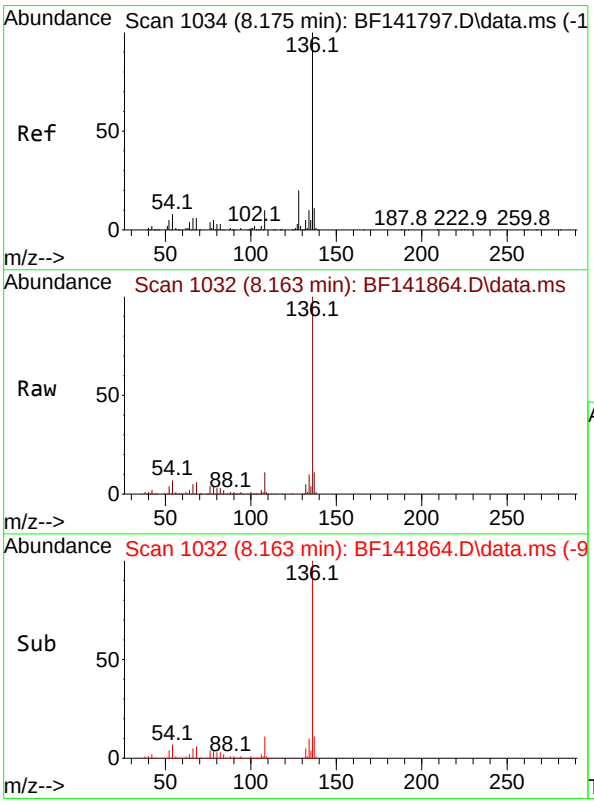
#7
Phenol-d6
Concen: 90.491 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion: 99 Resp: 1205625

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.2	22.8
71	36.6	28.2	42.2

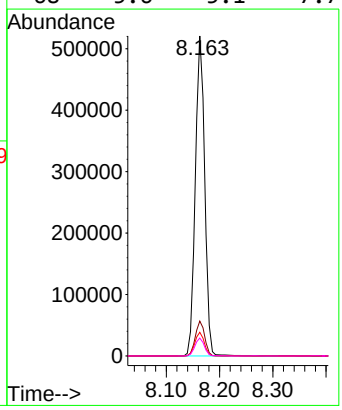


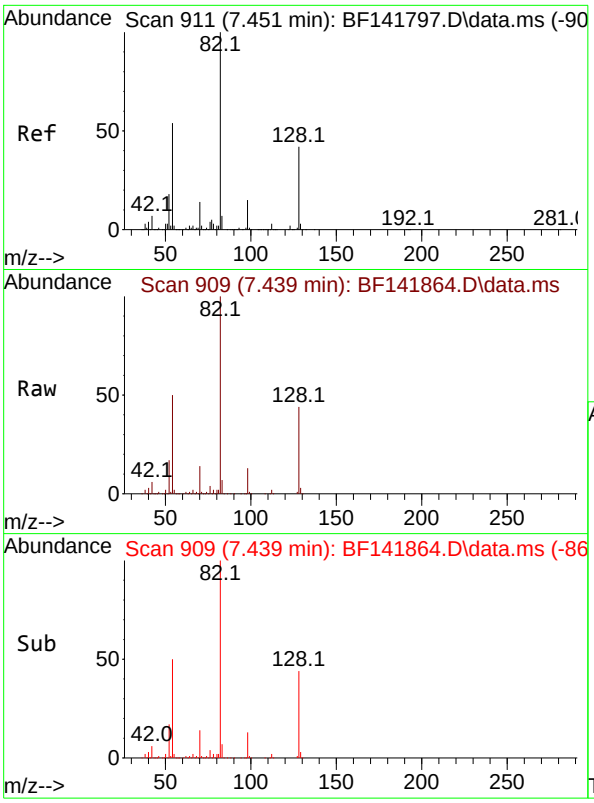


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:136 Resp: 639781

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.4	6.9	10.3
68	5.6	5.1	7.7



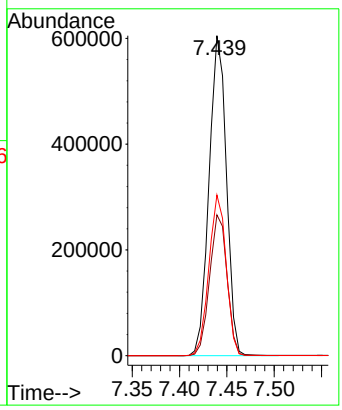


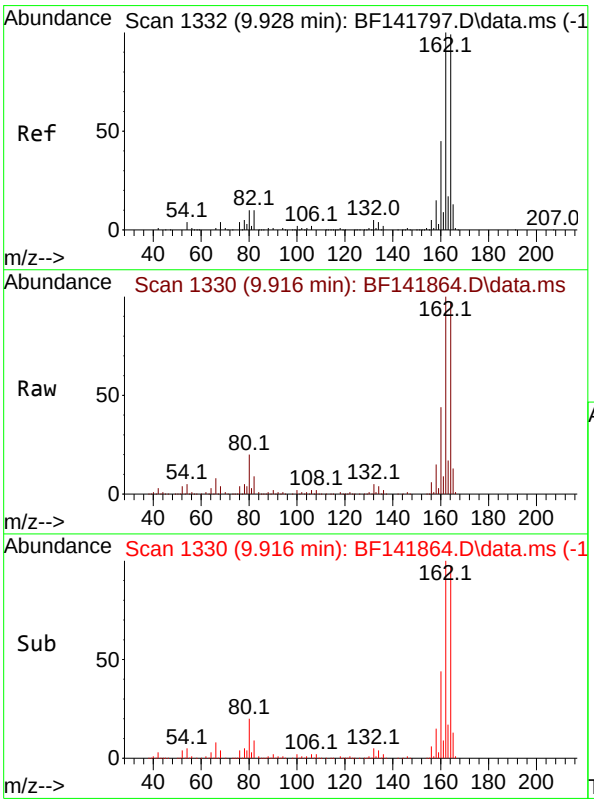
#23
Nitrobenzene-d5
Concen: 77.098 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion: 82 Resp: 771678

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	50.2	42.7	64.1

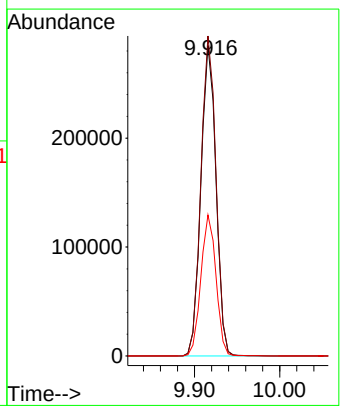


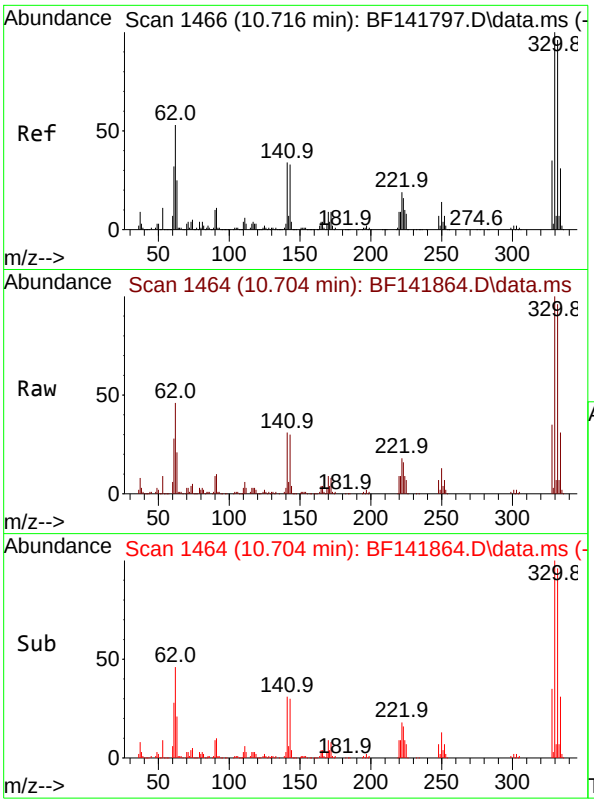


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:164 Resp: 350300

Ion	Ratio	Lower	Upper
164	100		
162	103.0	80.6	120.8
160	45.4	36.3	54.5



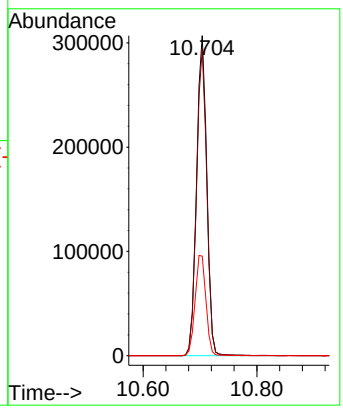


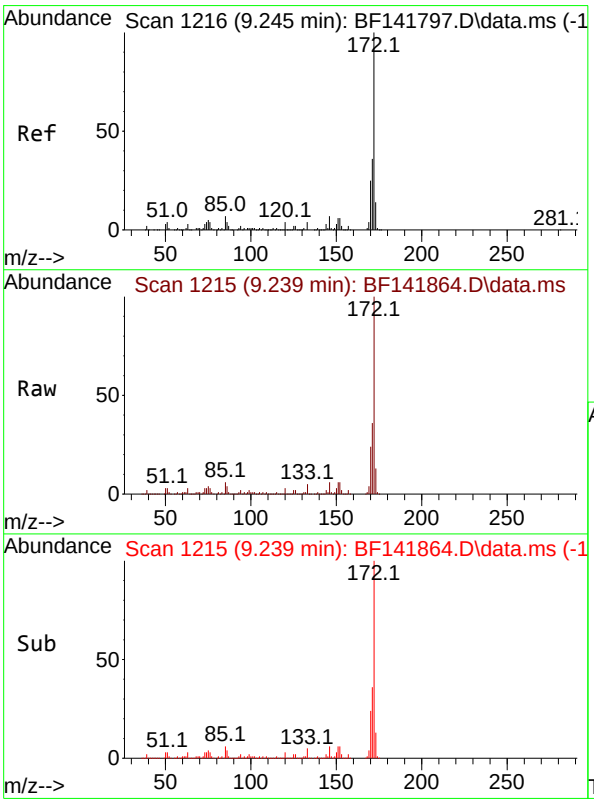
#42
2,4,6-Tribromophenol
Concen: 117.516 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:330 Resp: 386471

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	33.2	29.0	43.4

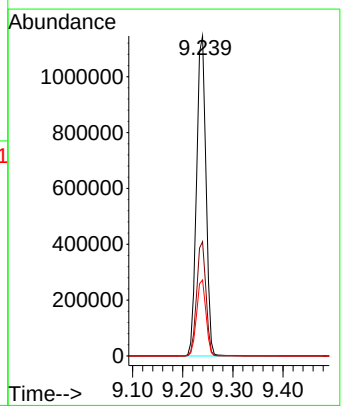


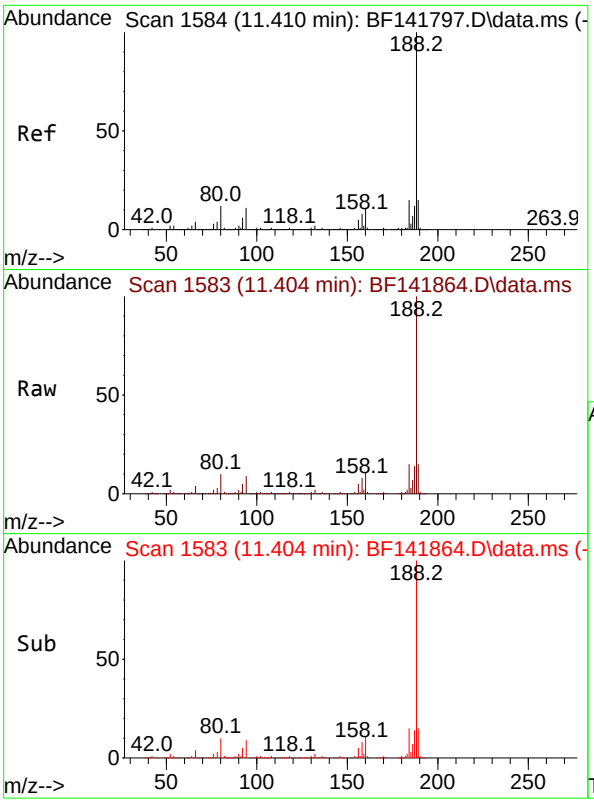


#45
2-Fluorobiphenyl
Concen: 68.272 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:172 Resp: 1491514

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.8	19.7	29.5



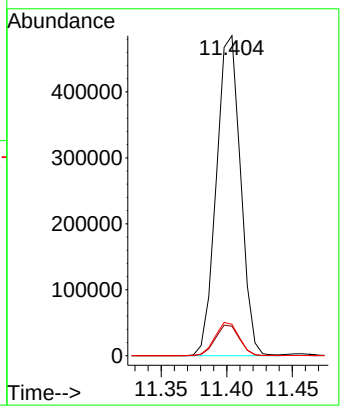


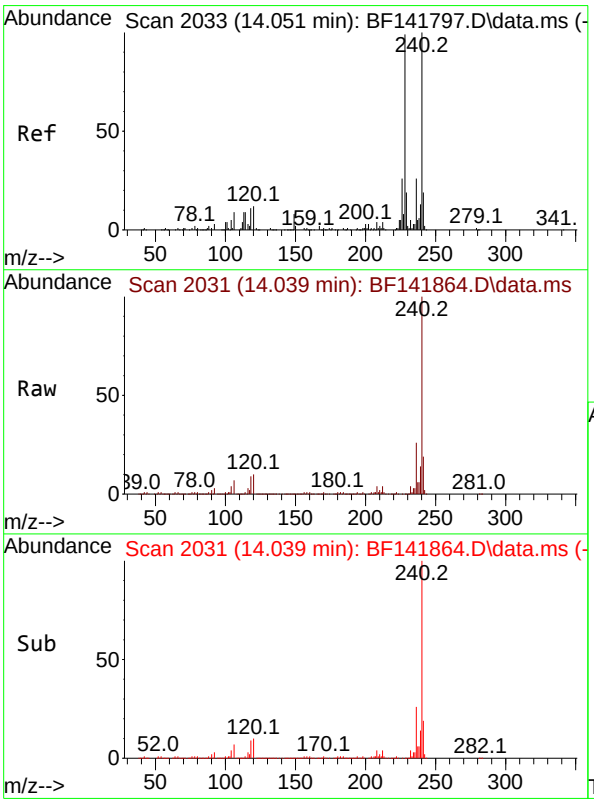
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:188 Resp: 621587

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.9	13.3
80	9.8	9.7	14.5

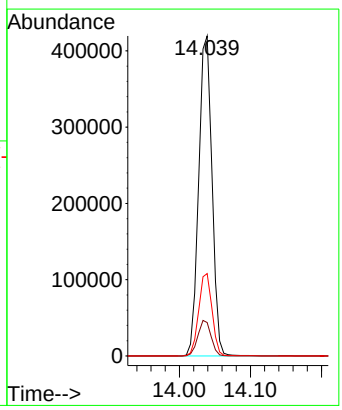


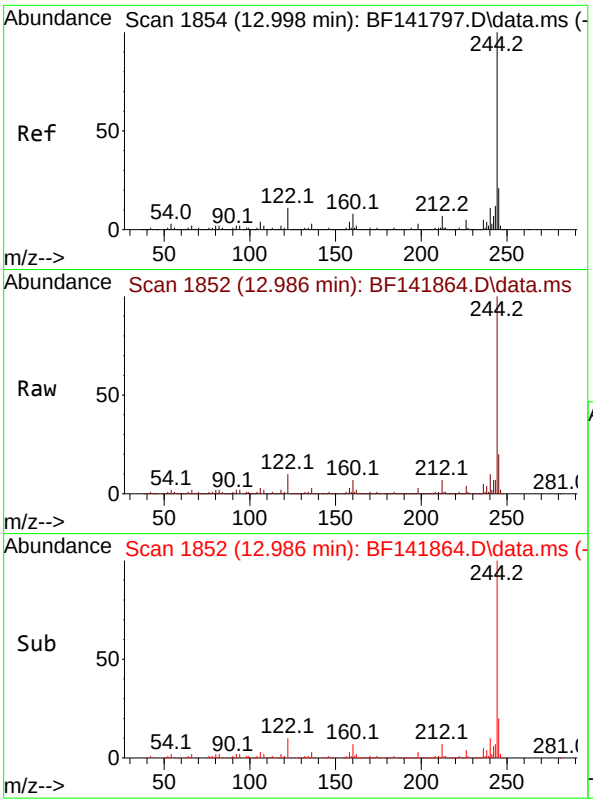


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:240 Resp: 547828

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.7	14.5
236	25.8	21.0	31.4



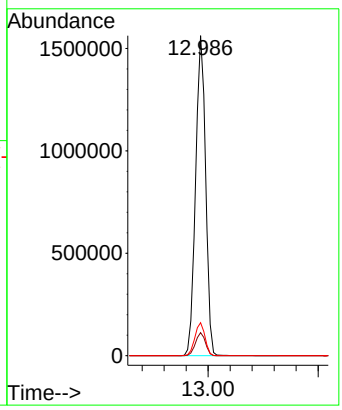


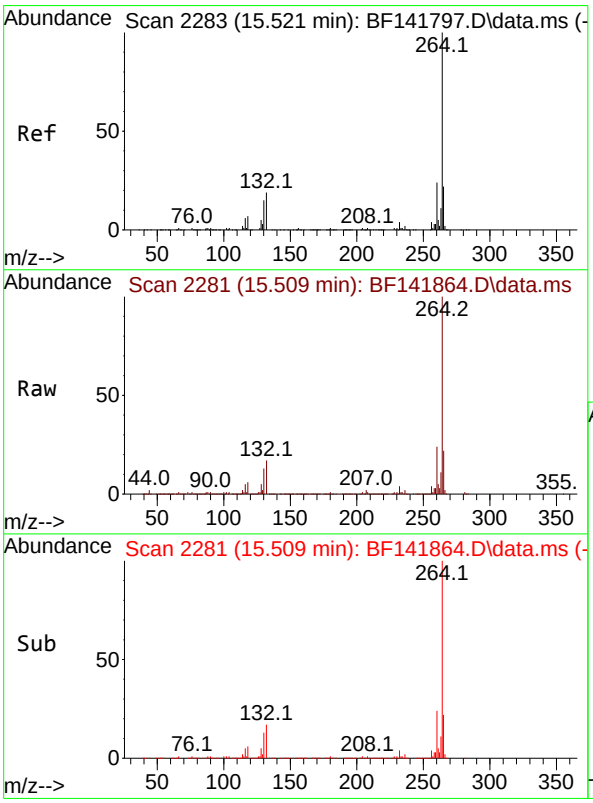
#79
Terphenyl-d14
Concen: 58.410 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Tgt Ion:244 Resp: 1977777

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.3	9.0	13.6

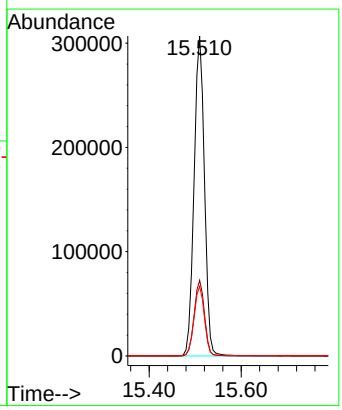




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:264 Resp: 479609

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.8	17.4	26.0



Sample Results: **BF141864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141864.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	4	11	27	rVB	754270	1215773	23.10%	3.477%
2	5.498	573	579	584	rBV	2520977	3307115	62.82%	9.459%
3	6.498	743	749	763	rBV	2529398	3495534	66.40%	9.998%
4	6.887	809	815	820	rBV	771139	972326	18.47%	2.781%
5	7.439	903	909	914	rBV	1759224	2244924	42.65%	6.421%
6	7.692	947	952	960	rVB	60796	74606	1.42%	0.213%
7	8.163	1026	1032	1037	rBV	1053056	1294356	24.59%	3.702%
8	9.239	1209	1215	1220	rBV	3357884	4392367	83.44%	12.563%
9	9.916	1325	1330	1335	rBV	1222255	1501914	28.53%	4.296%
10	10.627	1445	1451	1458	rBV	304182	375163	7.13%	1.073%
11	10.704	1458	1464	1474	rBV	2261539	2977623	56.56%	8.516%
12	11.404	1577	1583	1588	rBV	1216296	1563249	29.70%	4.471%
13	11.927	1662	1672	1693	rBV	930733	1631918	31.00%	4.667%
14	12.627	1786	1791	1798	rBV4	33184	73409	1.39%	0.210%
15	12.710	1798	1805	1818	rVV	428615	719514	13.67%	2.058%
16	12.986	1846	1852	1857	rBV	4158918	5264159	100.00%	15.056%
17	13.674	1965	1969	1974	rBV	61212	76168	1.45%	0.218%
18	13.880	1999	2004	2012	rBV	321738	584000	11.09%	1.670%
19	14.039	2025	2031	2038	rVB	1132997	1503836	28.57%	4.301%
20	14.515	2107	2112	2118	rBV2	48120	108912	2.07%	0.311%
21	15.157	2217	2221	2226	rBV	41070	68220	1.30%	0.195%
22	15.510	2275	2281	2287	rBV	825165	1304961	24.79%	3.732%
23	16.057	2369	2374	2397	rVB3	36639	146812	2.79%	0.420%
24	16.504	2446	2450	2465	rVB5	32021	66911	1.27%	0.191%

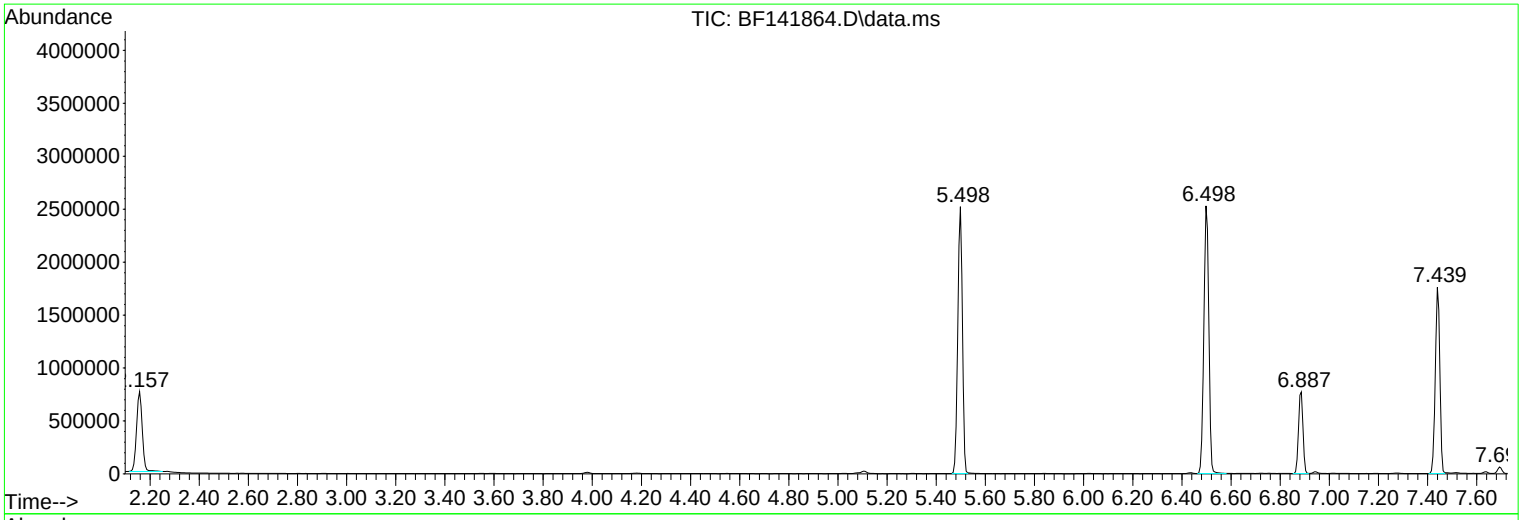
Sum of corrected areas: 34963770

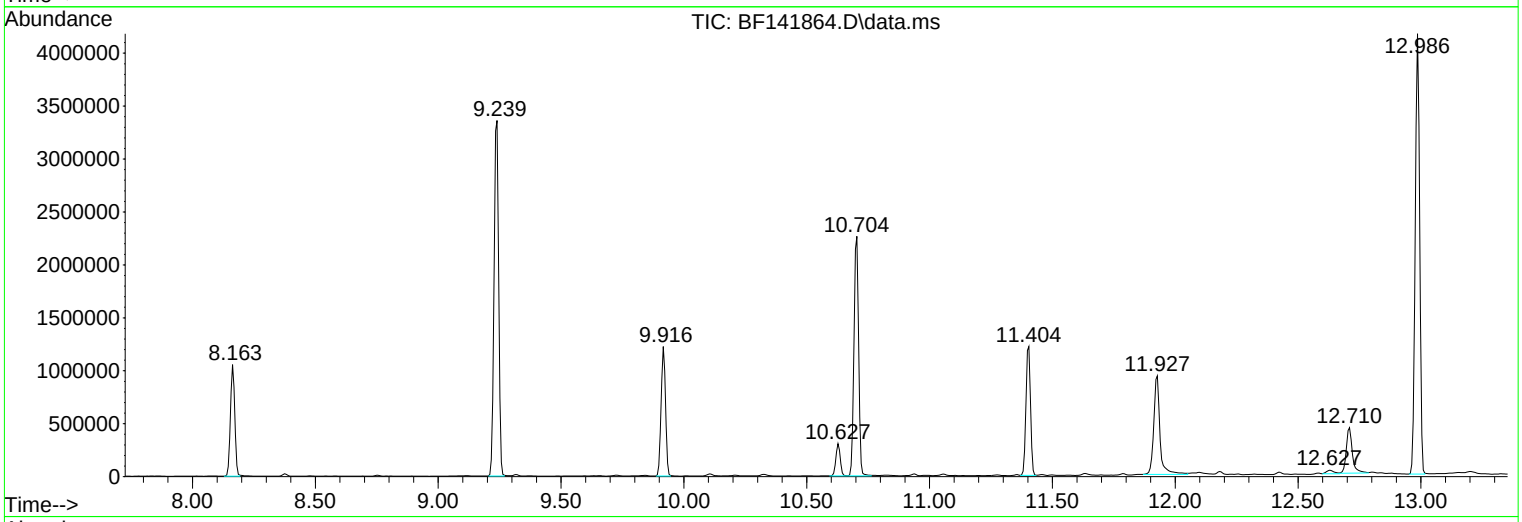
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

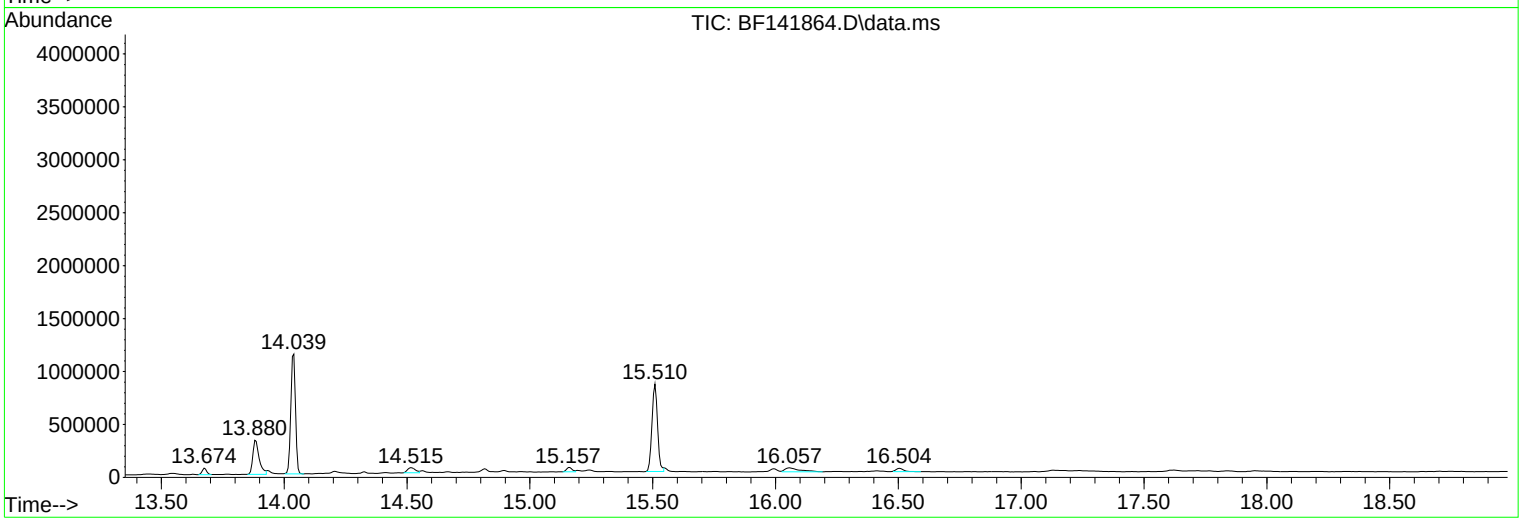
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

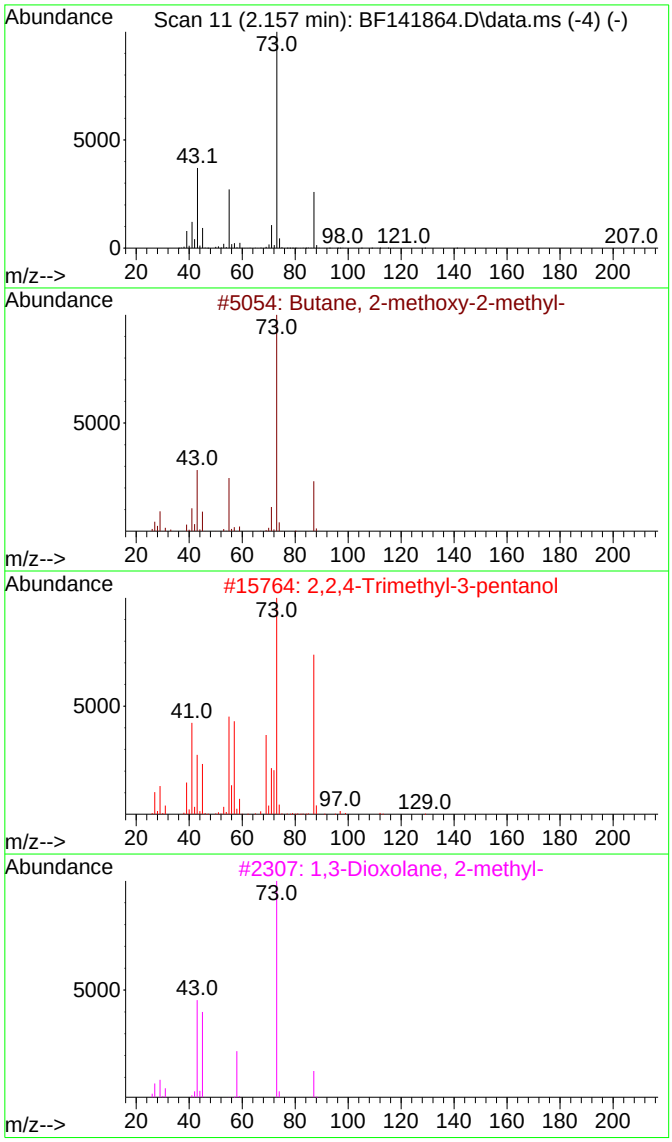
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

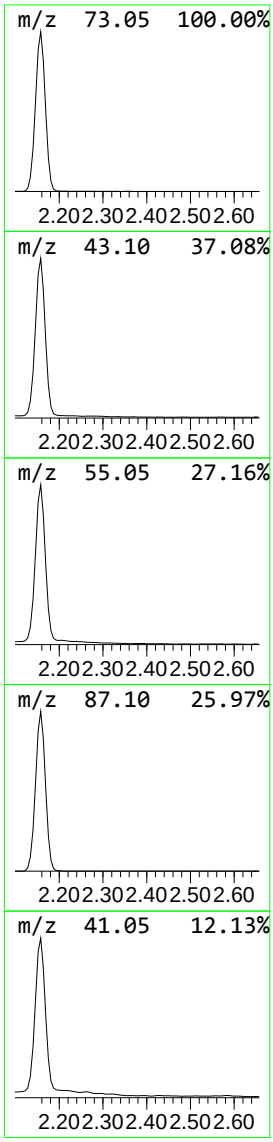
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.157	25.01 ng	1215770	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

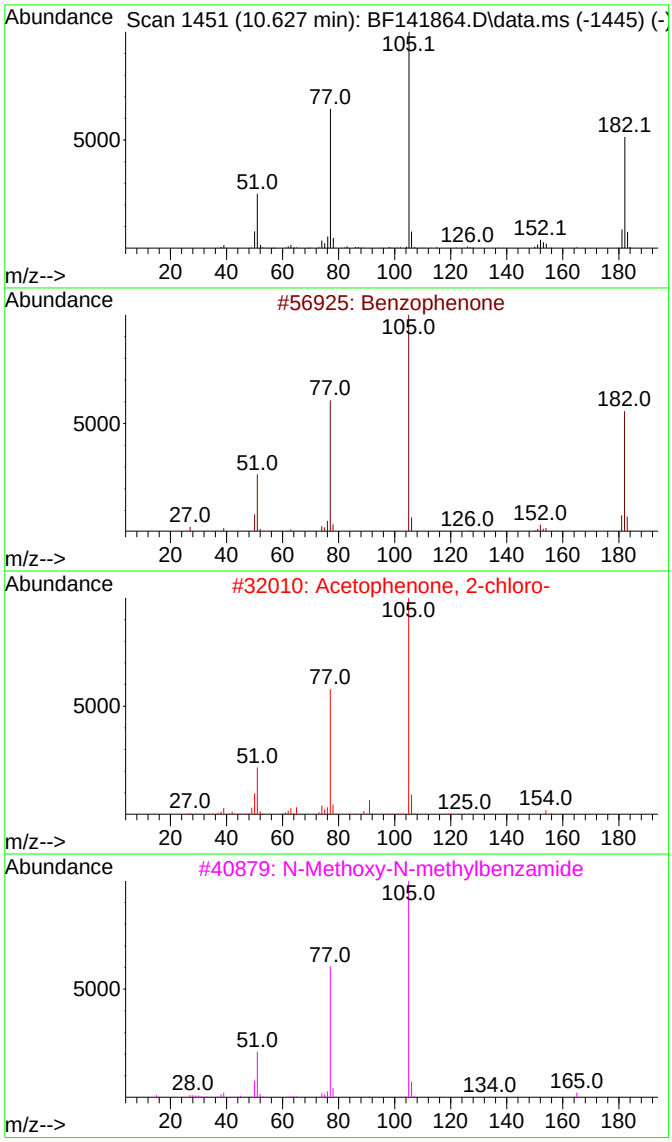
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

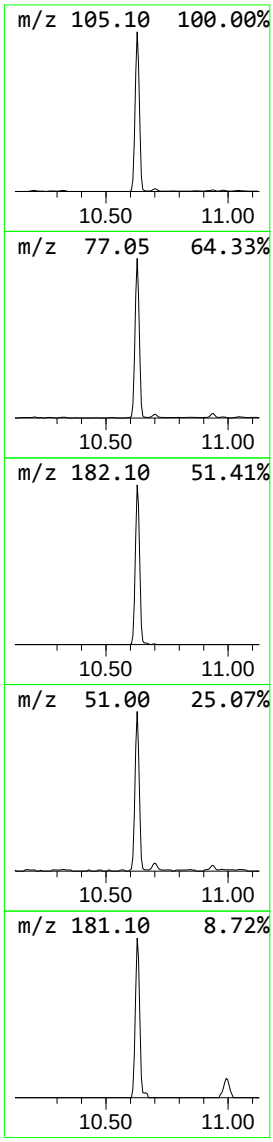
****

Peak Number 2 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	5.00 ng	375163	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





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Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

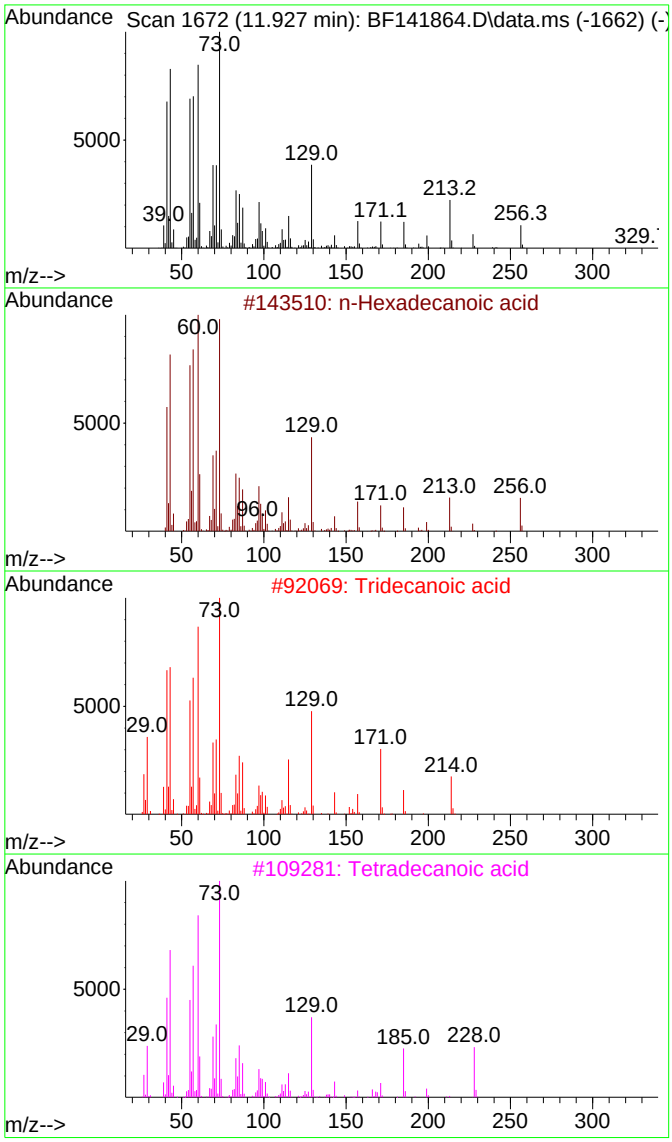
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

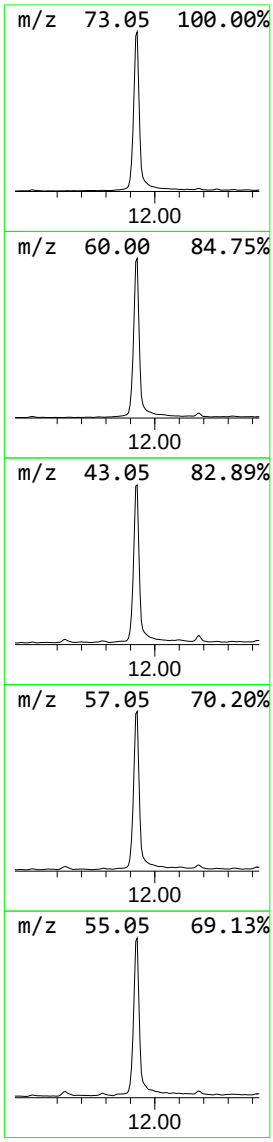
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	20.88 ng	1631920	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	95
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





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Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

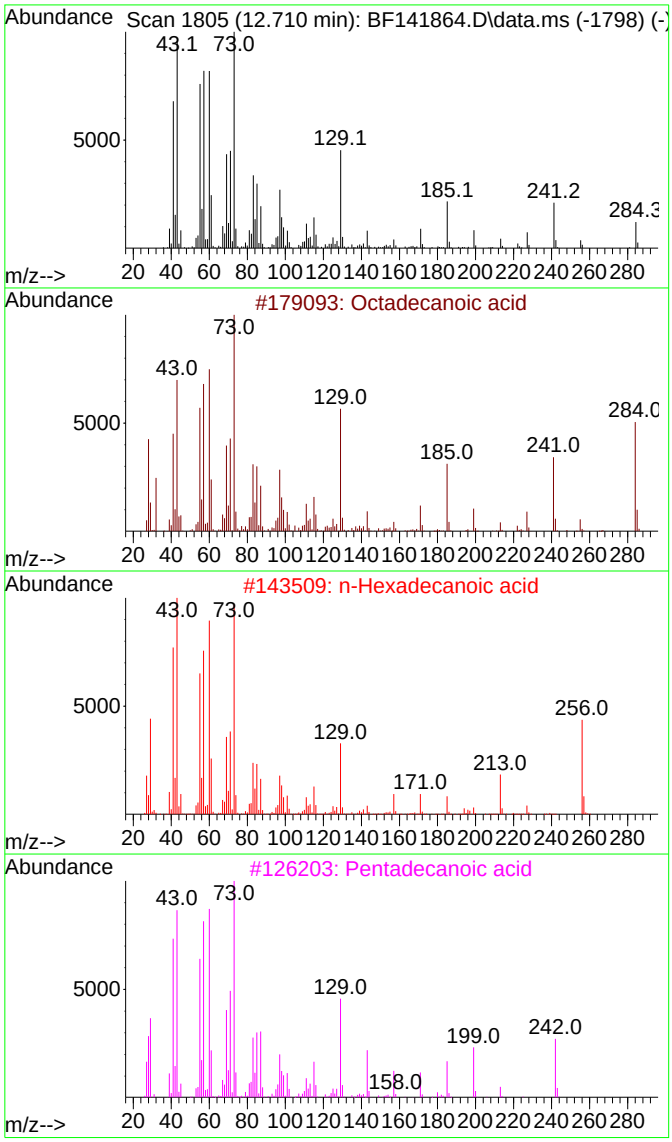
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

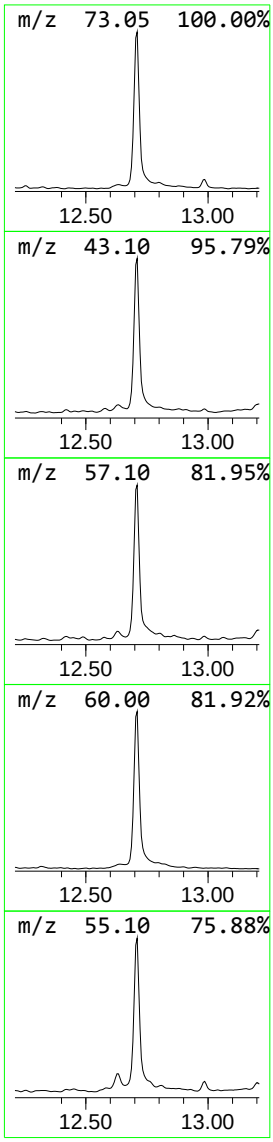
****

Peak Number 4 Octadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	9.21 ng	719514	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80





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Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

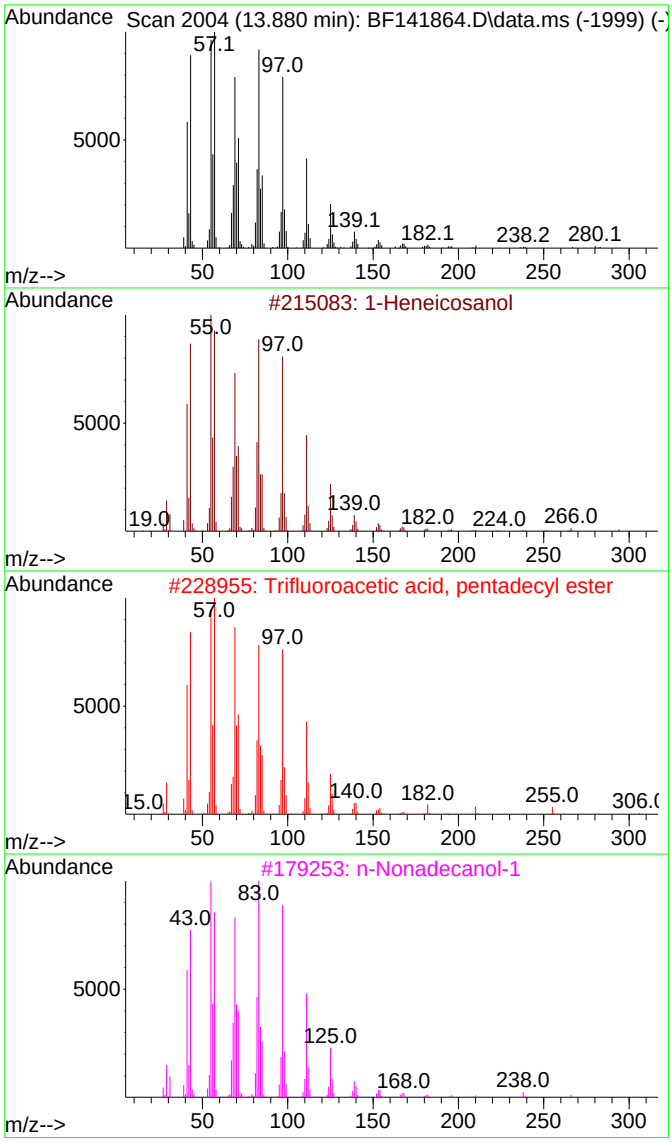
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

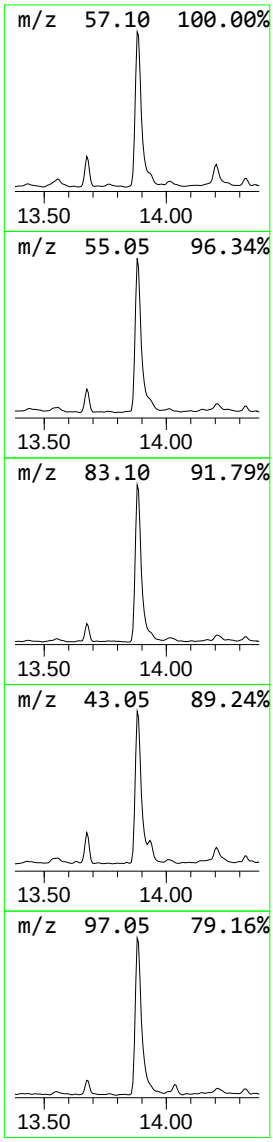
****

Peak Number 5 1-Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	7.77 ng	584000	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
4	1-Tetracosene	336	C24H48	010192-32-2	94
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94





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Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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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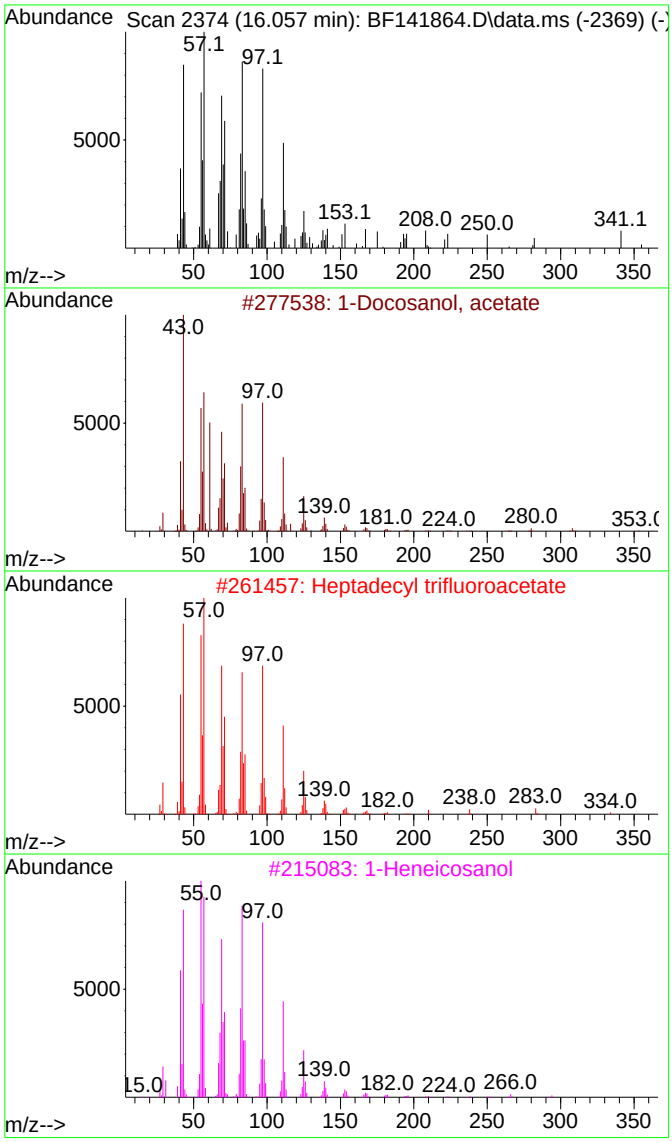
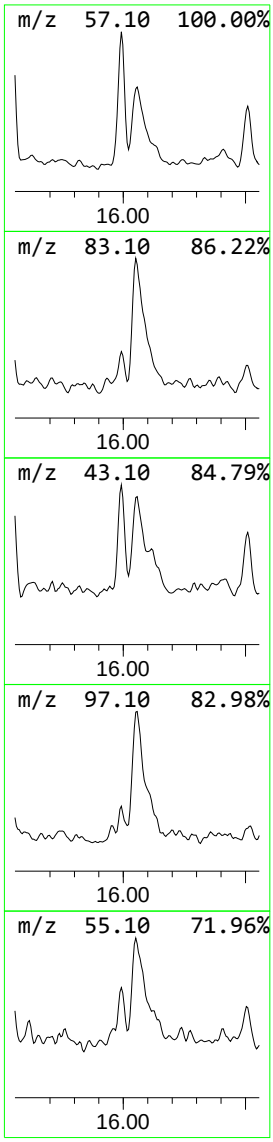
Peak Number 6 1-Docosanol, acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	2.25 ng	146812	Perylene-d12	15.509

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosanol, acetate	368	C24H48O2	000822-26-4	91
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	91
3	1-Heneicosanol	312	C21H44O	015594-90-8	90
4	1-Hexacosanol	382	C26H54O	000506-52-5	90
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	90





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Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.157	25.0	ng	1215770	1	6.887	972326	20.0
Benzophenone	10.628	5.0	ng	375163	3	9.916	1501910	20.0
n-Hexadecanoic ...	11.927	20.9	ng	1631920	4	11.404	1563250	20.0
Octadecanoic acid	12.710	9.2	ng	719514	4	11.404	1563250	20.0
1-Heneicosanol	13.880	7.8	ng	584000	5	14.039	1503840	20.0
1-Docosanol, ac...	16.057	2.3	ng	146812	6	15.509	1304960	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 15:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	192627	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	725608	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	362334	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	551877	20.000	ng	0.00
76) Chrysene-d12	14.033	240	435864	20.000	ng	-0.02
86) Perylene-d12	15.510	264	488168	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1048419	86.920	ng	0.00
7) Phenol-d6	6.498	99	1311040	83.508	ng	-0.01
23) Nitrobenzene-d5	7.440	82	818591	72.111	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	277953	81.711	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1254219	55.503	ng	0.00
79) Terphenyl-d14	12.986	244	978122	36.308	ng	-0.01
Target Compounds						Qvalue
75) Fluoranthene	12.610	202	89800	2.969	ng	98
78) Pyrene	12.839	202	84804	2.247	ng	100
83) Chrysene	14.063	228	64592	2.434	ng	96
88) Benzo(b)fluoranthene	15.074	252	104685m	3.148	ng	
90) Benzo(a)pyrene	15.445	252	61441	2.304	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 15:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
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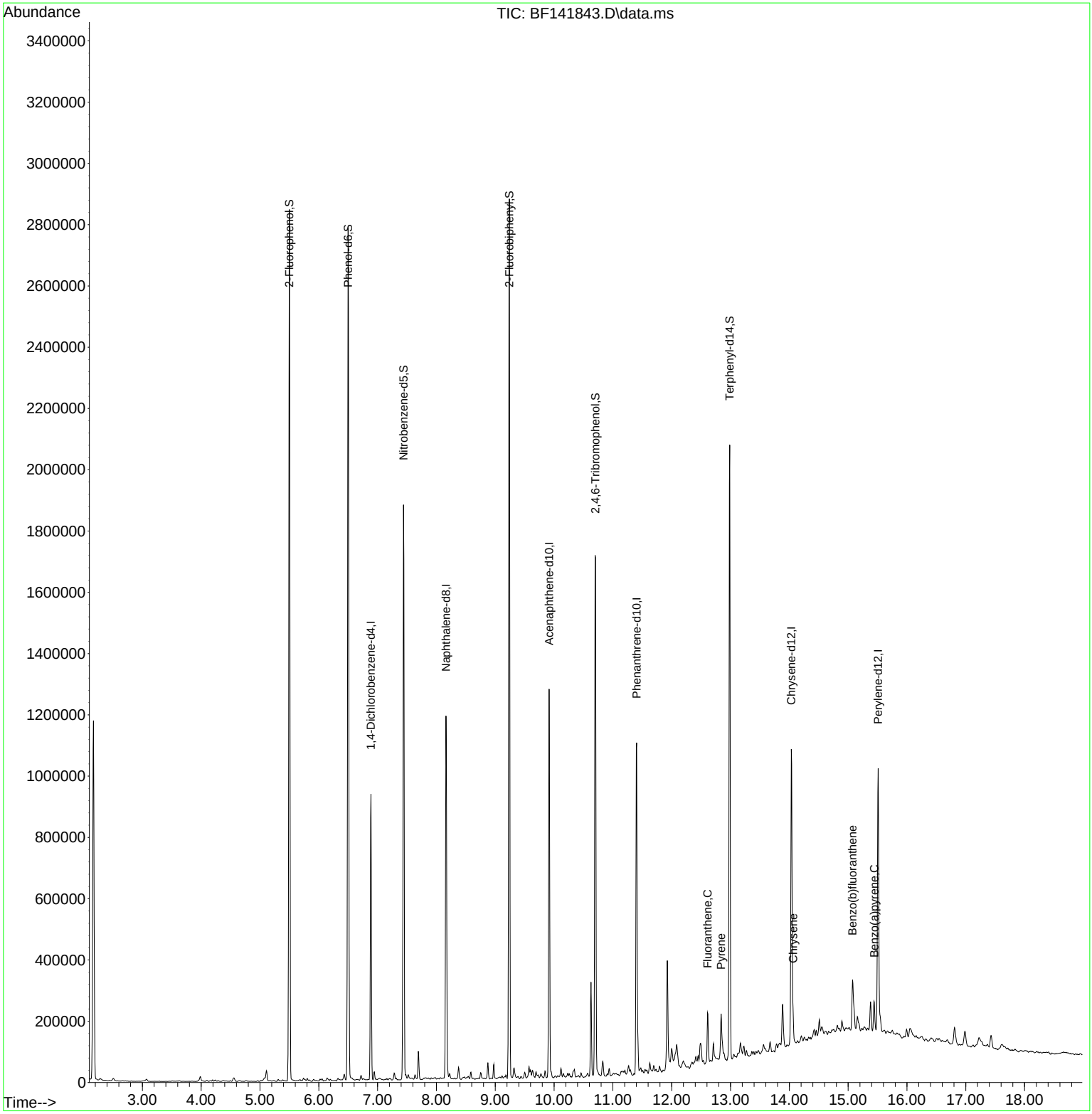

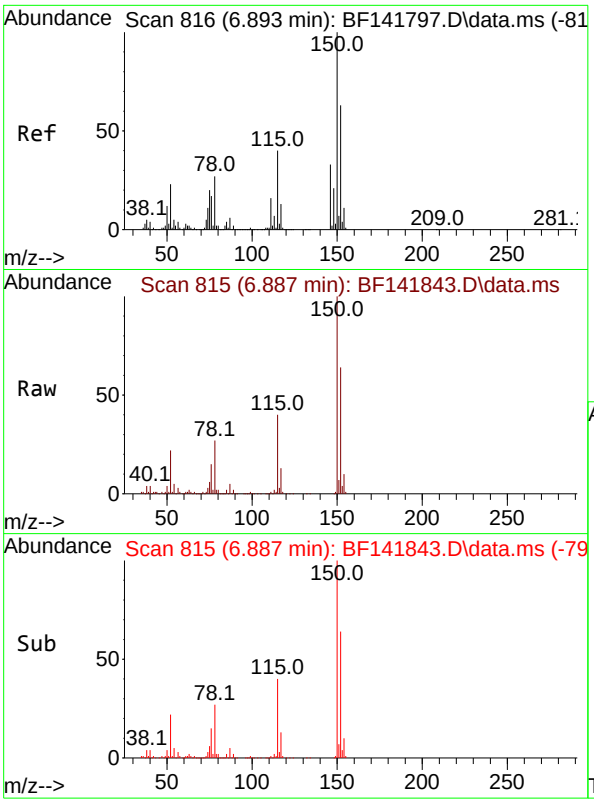

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:152 Resp: 19262

Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.5	191.3
115	62.2	51.4	77.2

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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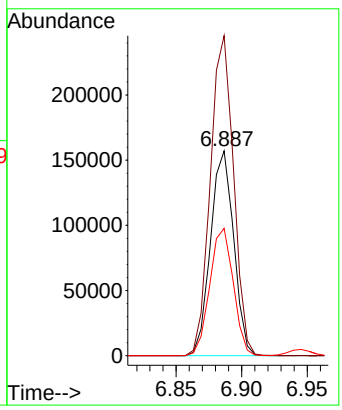
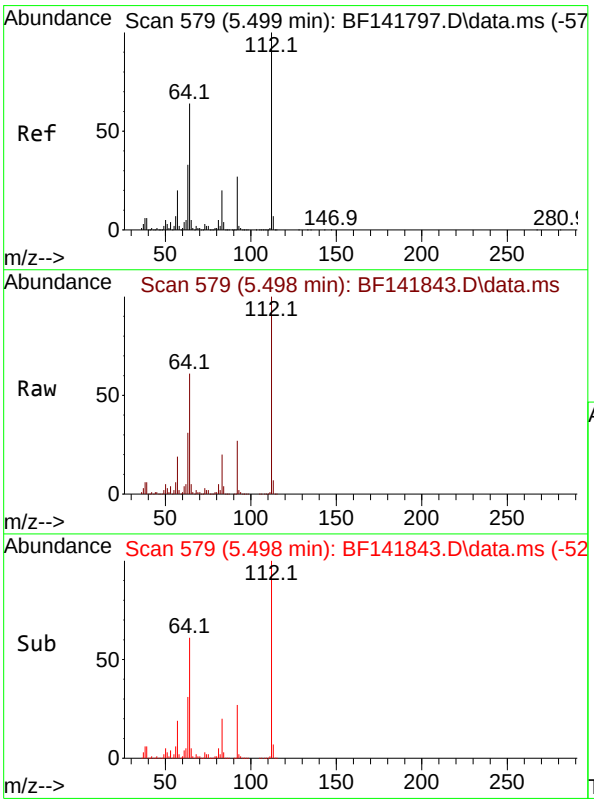
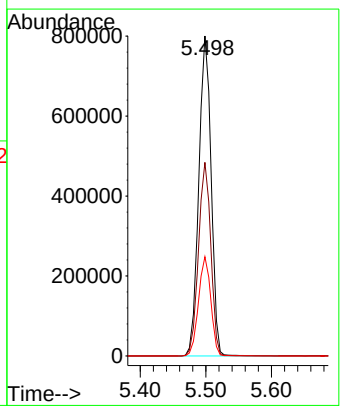


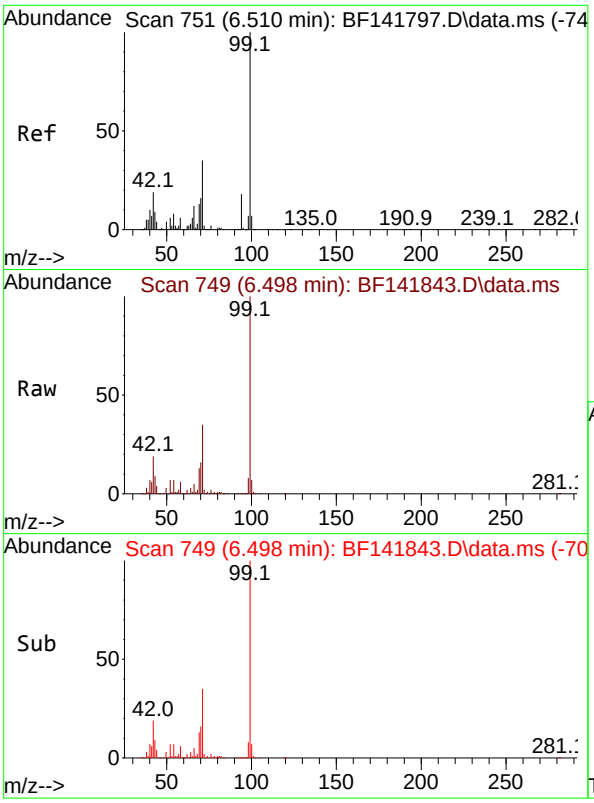


#5
2-Fluorophenol
Concen: 86.920 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:112 Resp: 1048419

Ion	Ratio	Lower	Upper
112	100		
64	60.5	51.3	76.9
63	31.0	26.2	39.4

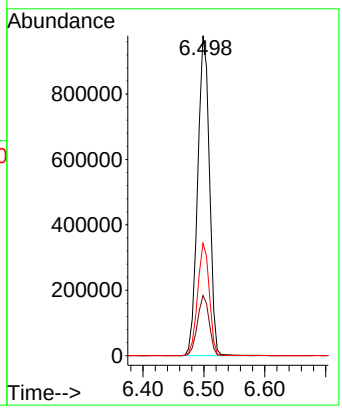




#7
Phenol-d6
Concen: 83.508 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion: 99 Resp: 131104

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	35.1	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
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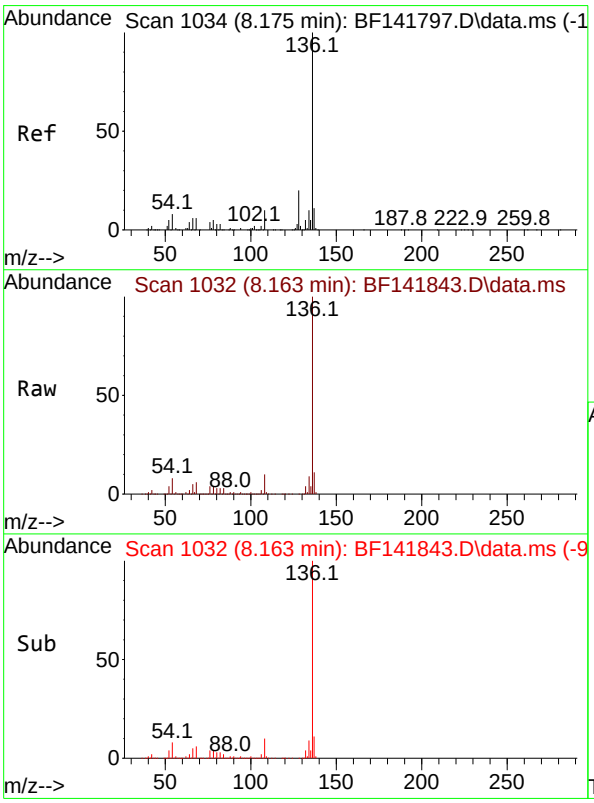
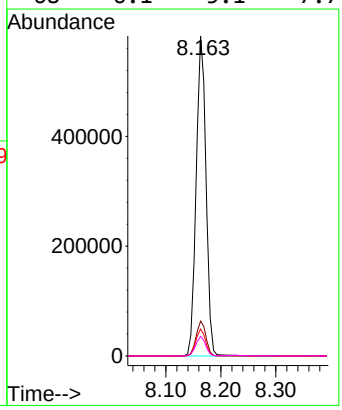
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

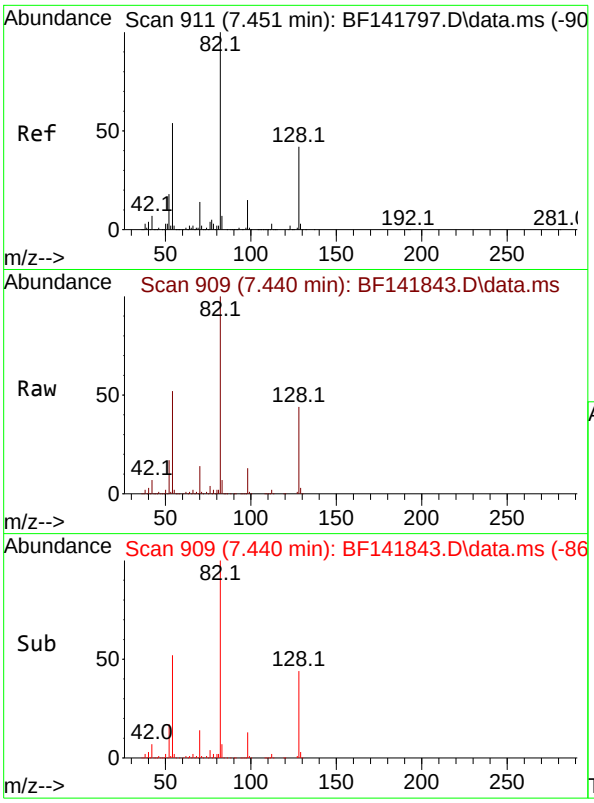


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:136 Resp: 725608

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.4	6.9	10.3
68	6.1	5.1	7.7

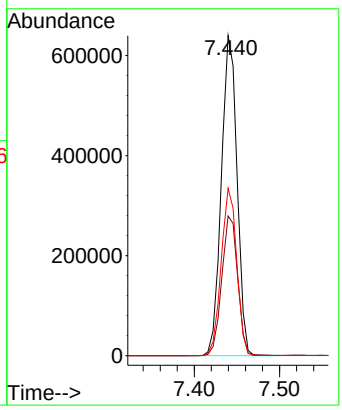




#23
Nitrobenzene-d5
Concen: 72.111 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion: 82 Resp: 81859

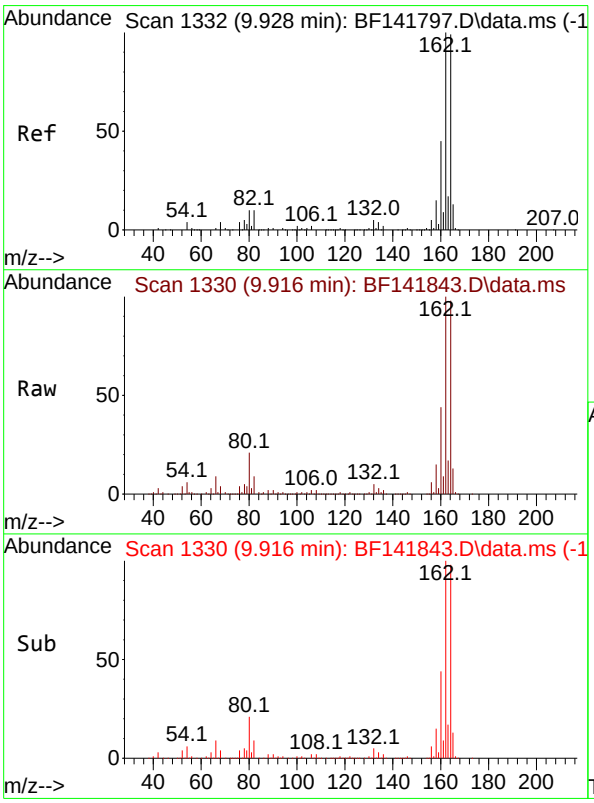
Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.5	50.3
54	52.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

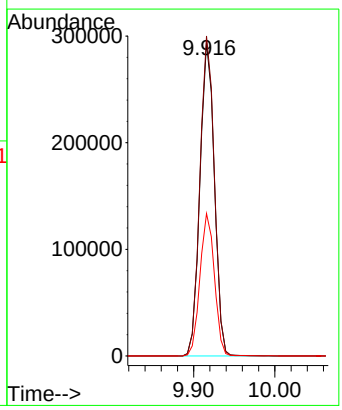
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

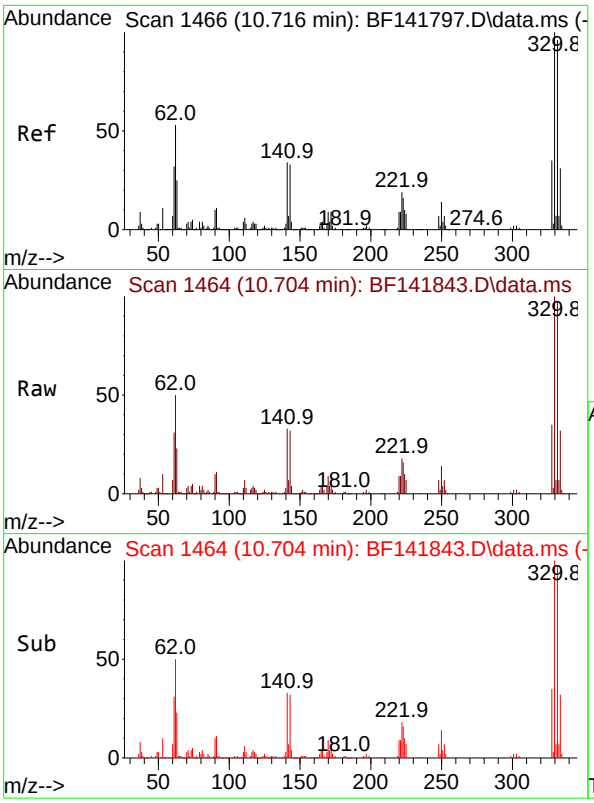


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:164 Resp: 362334

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.4	36.3	54.5

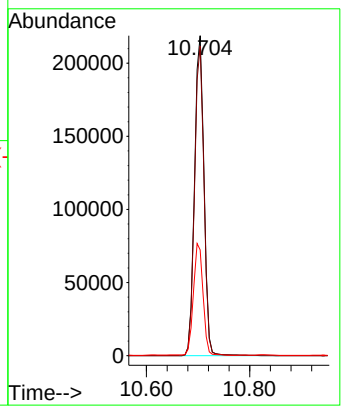




#42
2,4,6-Tribromophenol
Concen: 81.711 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:330 Resp: 27795

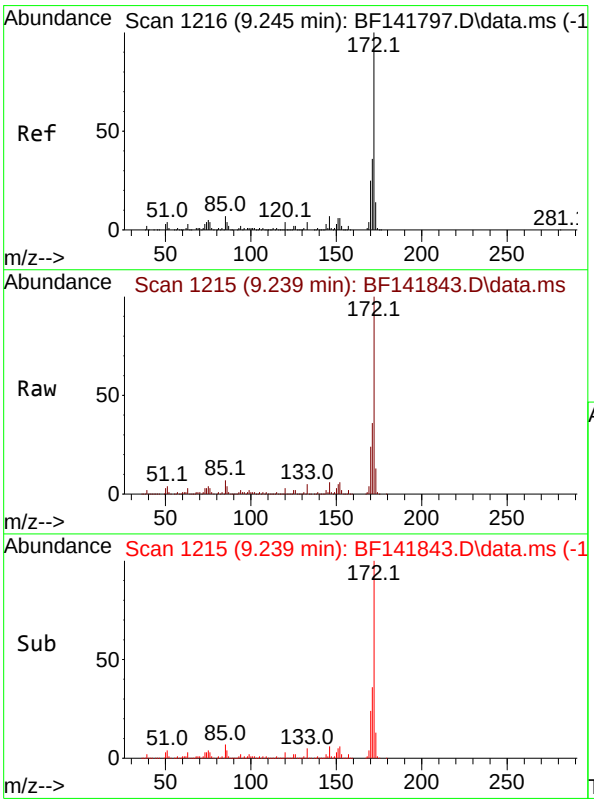
Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED

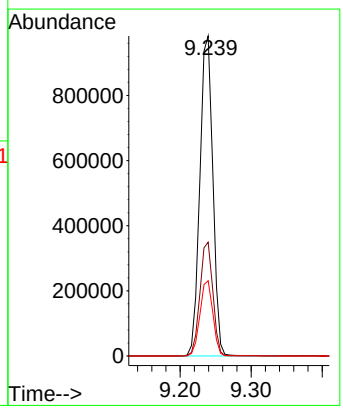
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

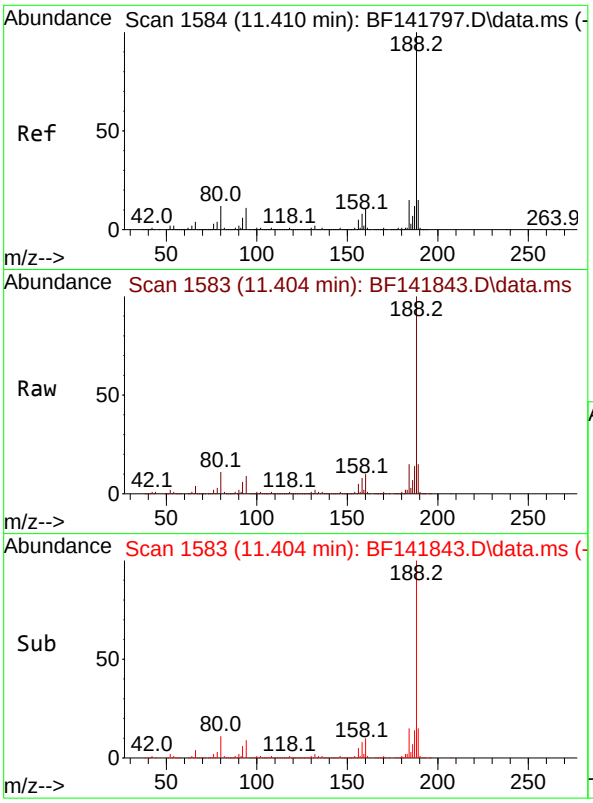


#45
2-Fluorobiphenyl
Concen: 55.503 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:172 Resp: 1254219

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.5	19.7	29.5

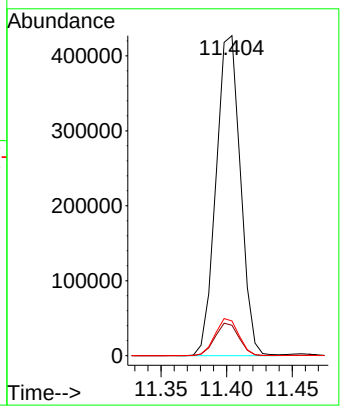




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:188 Resp: 55187

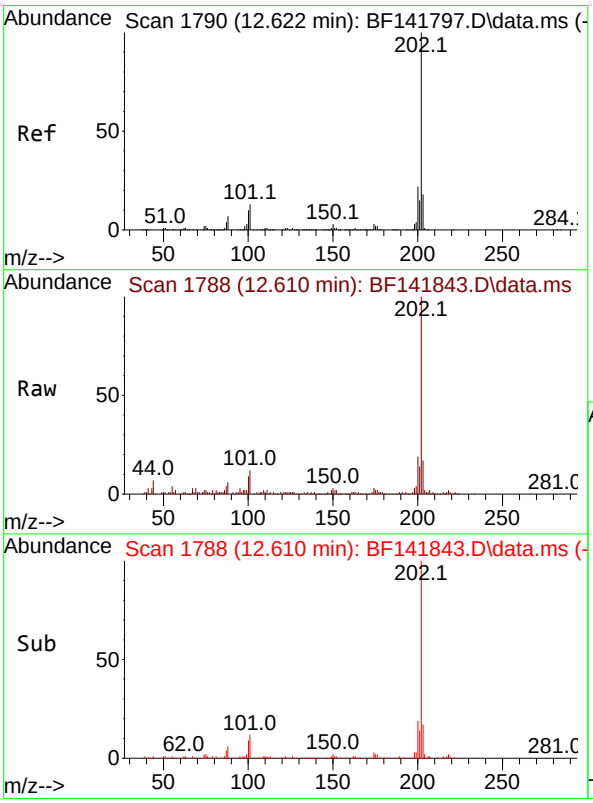
Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.9	13.3
80	10.8	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

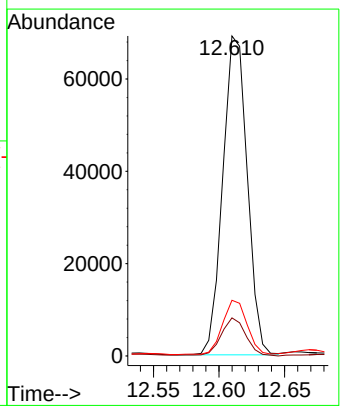
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

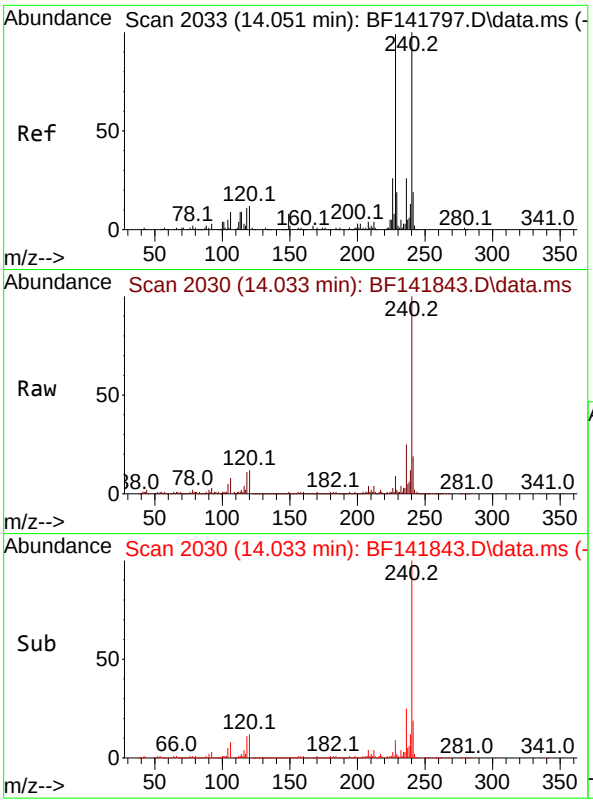


#75
Fluoranthene
Concen: 2.969 ng
RT: 12.610 min Scan# 1788
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:202 Resp: 89800

Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	32.8
203	17.4	0.0	38.0

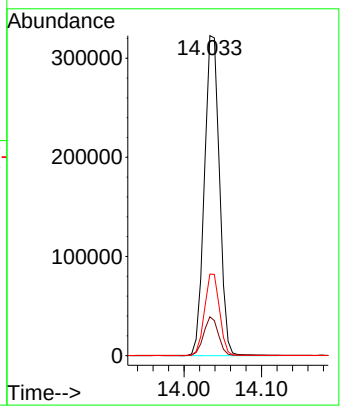




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:240 Resp: 43586

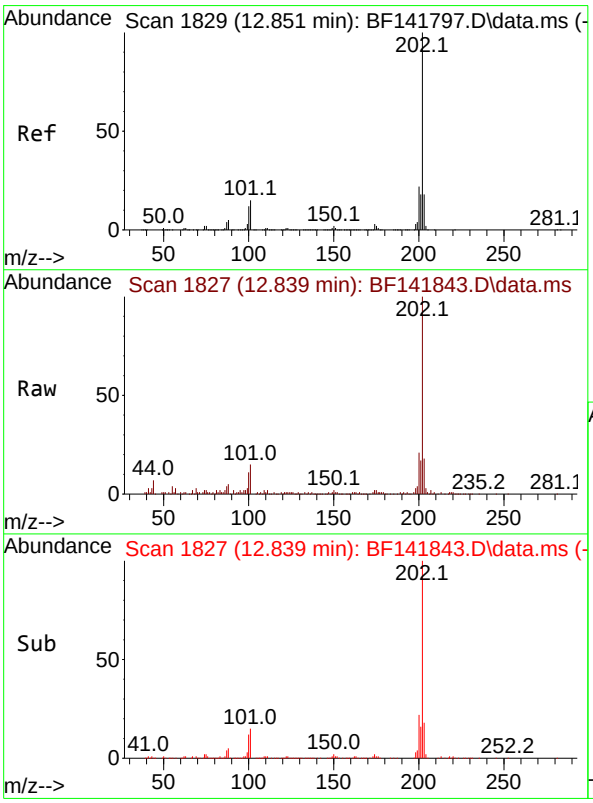
Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.5	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

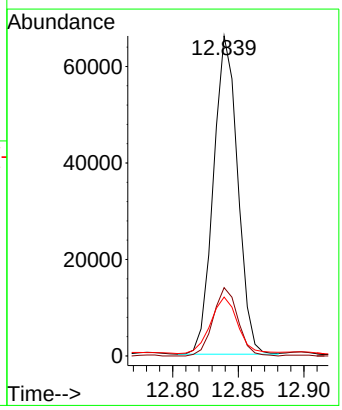
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

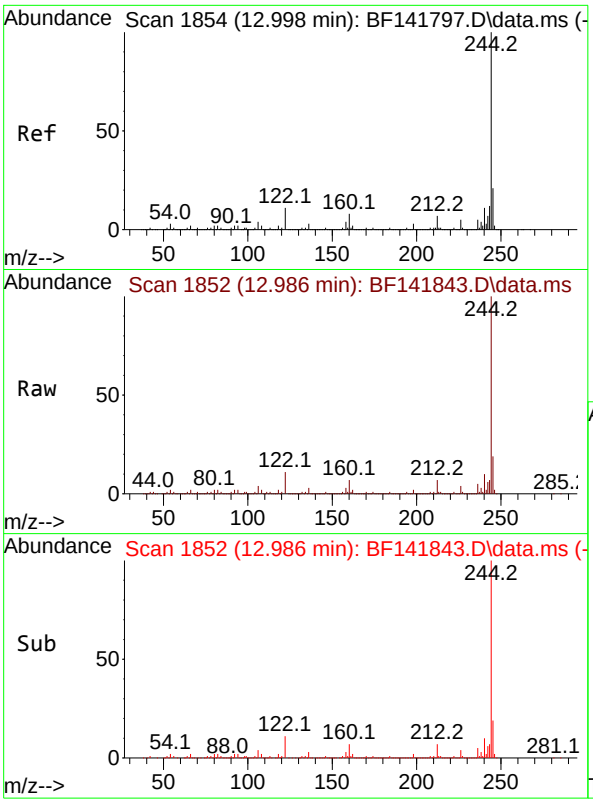


#78
Pyrene
Concen: 2.247 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:202 Resp: 84804

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.4	14.6	22.0

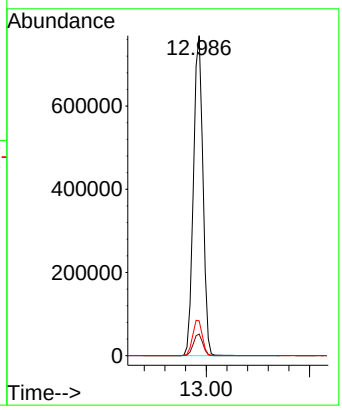




#79
Terphenyl-d14
Concen: 36.308 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:244 Resp: 97812

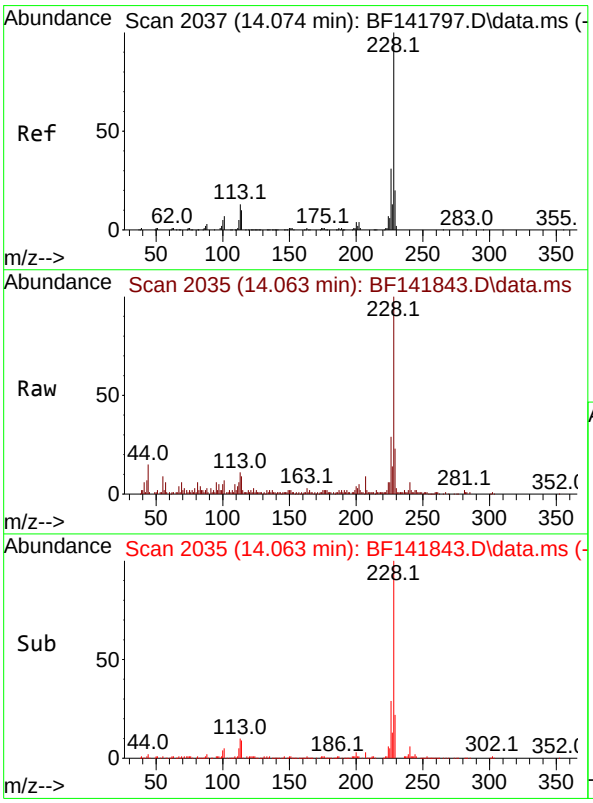
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	10.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

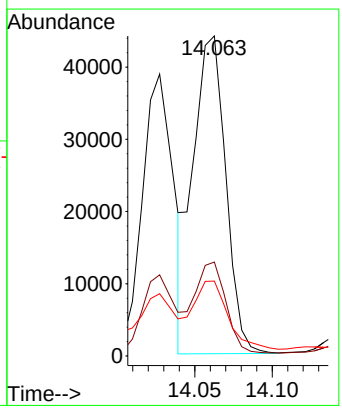
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

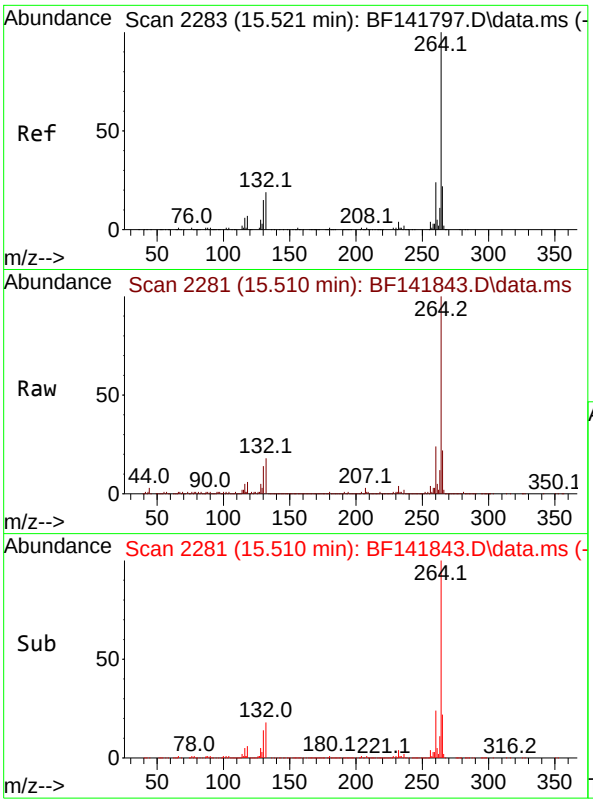


#83
Chrysene
Concen: 2.434 ng
RT: 14.063 min Scan# 2035
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:228 Resp: 64592

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	23.4	16.1	24.1

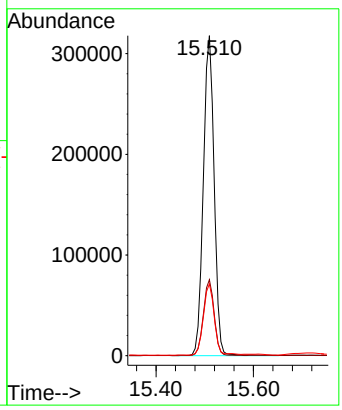




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:264 Resp: 48816

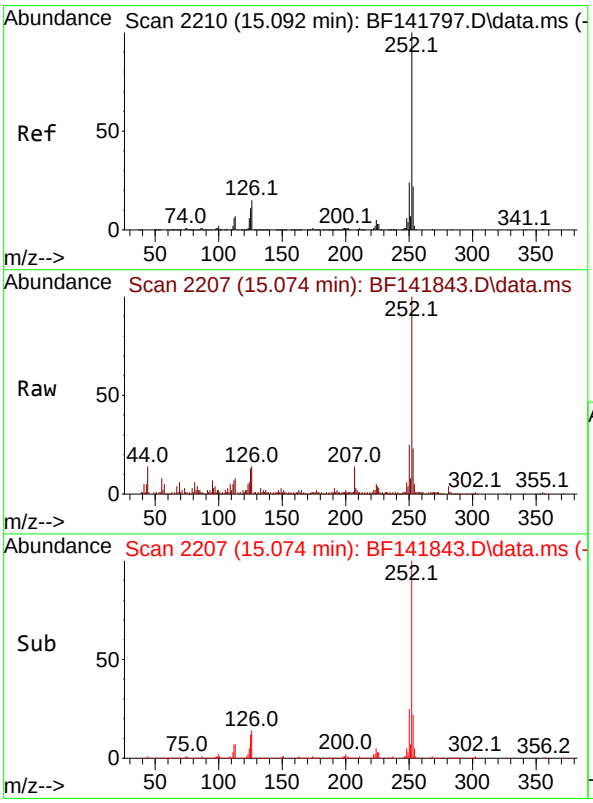
Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	22.4	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED

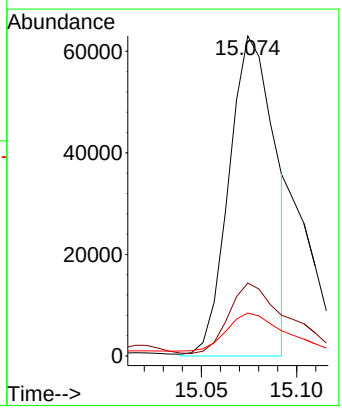
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

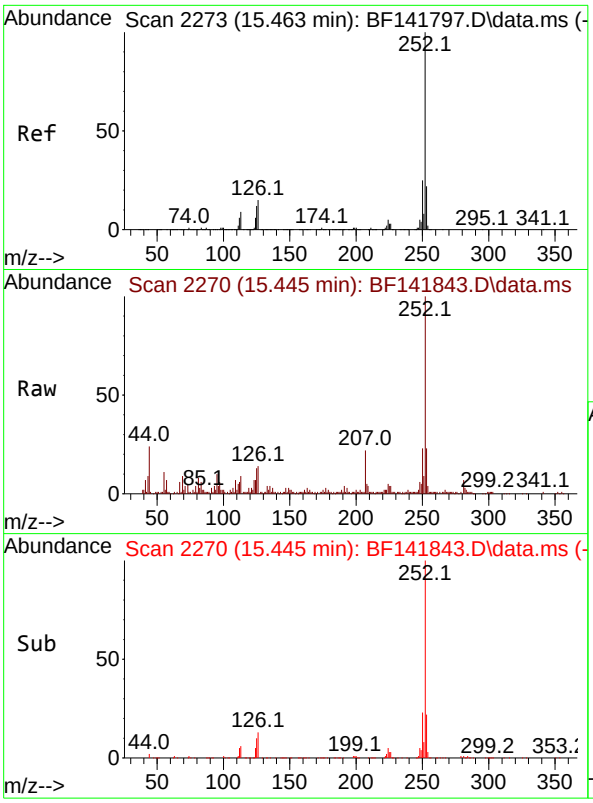


#88
Benzo(b)fluoranthene
Concen: 3.148 ng m
RT: 15.074 min Scan# 2207
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:252 Resp: 104685

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	13.4	8.6	13.0#

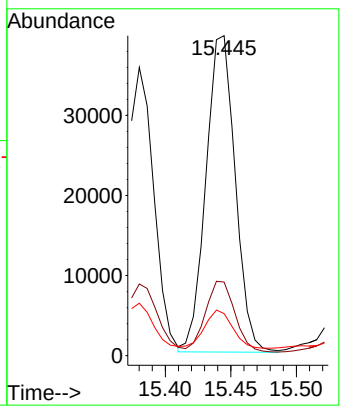




#90
Benzo(a)pyrene
Concen: 2.304 ng
RT: 15.445 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:252 Resp: 6144

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	13.1	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141843.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	26	rVB	1173065	1864823	49.25%	5.714%
2	5.110	509	513	519	rVB2	33303	53879	1.42%	0.165%
3	5.498	573	579	584	rBV	2844702	3713108	98.07%	11.378%
4	6.498	743	749	759	rBV	2781960	3786299	100.00%	11.602%
5	6.887	809	815	821	rVB	932841	1167396	30.83%	3.577%
6	7.440	901	909	914	rBV	1876660	2417207	63.84%	7.407%
7	7.692	948	952	958	rVB	91494	113787	3.01%	0.349%
8	8.163	1026	1032	1039	rBV	1182559	1510343	39.89%	4.628%
9	8.375	1063	1068	1076	rVB2	39940	58674	1.55%	0.180%
10	8.875	1146	1153	1158	rVB	53400	67758	1.79%	0.208%
11	8.975	1166	1170	1174	rBV	46299	54035	1.43%	0.166%
12	9.239	1209	1215	1220	rBV	2870613	3692003	97.51%	11.313%
13	9.322	1224	1229	1235	rVB2	31544	53959	1.43%	0.165%
14	9.575	1265	1272	1274	rBV	36053	52945	1.40%	0.162%
15	9.916	1324	1330	1335	rBV	1267609	1583722	41.83%	4.853%
16	10.628	1445	1451	1458	rBV	307754	387402	10.23%	1.187%
17	10.698	1458	1463	1478	rVV	1700314	2295535	60.63%	7.034%
18	10.828	1480	1485	1492	rVB2	47847	81799	2.16%	0.251%
19	11.269	1554	1560	1563	rBV3	27300	46927	1.24%	0.144%
20	11.404	1577	1583	1590	rBV	1082434	1549322	40.92%	4.747%
21	11.628	1616	1621	1628	rBV2	34722	66861	1.77%	0.205%
22	11.927	1664	1672	1680	rBV2	357903	603851	15.95%	1.850%
23	11.998	1680	1684	1689	rVV2	62673	135846	3.59%	0.416%
24	12.086	1692	1699	1705	rVB2	69049	186635	4.93%	0.572%
25	12.492	1763	1768	1773	rVB3	60057	116524	3.08%	0.357%
26	12.610	1784	1788	1794	rBV	159439	210613	5.56%	0.645%
27	12.710	1801	1805	1813	rBV2	58413	103736	2.74%	0.318%
28	12.839	1822	1827	1834	rBV2	145054	260460	6.88%	0.798%
29	12.986	1846	1852	1859	rVB	2004684	2598058	68.62%	7.961%
30	13.169	1880	1883	1889	rVB4	34463	53731	1.42%	0.165%
31	13.886	2000	2005	2014	rVB2	139274	243634	6.43%	0.747%
32	14.033	2025	2030	2044	rVB2	958697	1490757	39.37%	4.568%
33	15.074	2203	2207	2217	rVB	158723	318578	8.41%	0.976%
34	15.380	2255	2259	2265	rVB	94695	140356	3.71%	0.430%
35	15.439	2265	2269	2275	rVV	97908	153298	4.05%	0.470%
36	15.510	2275	2281	2293	rVB	859658	1401178	37.01%	4.293%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 32635039

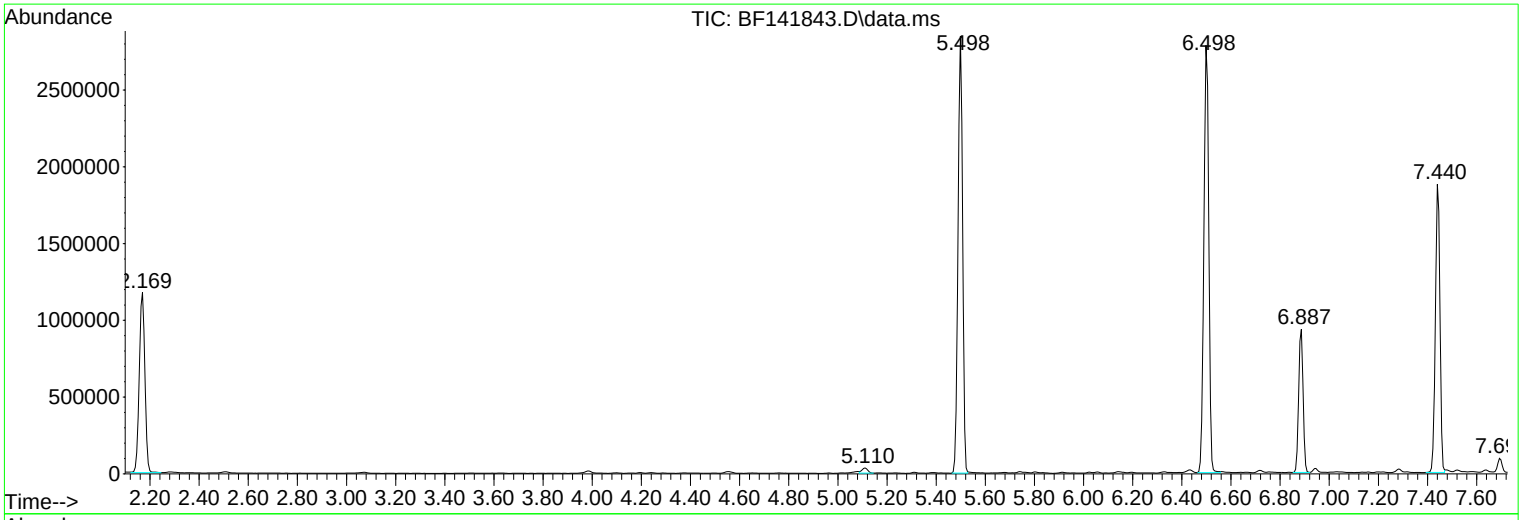
Sample Results: **BF141843.D**

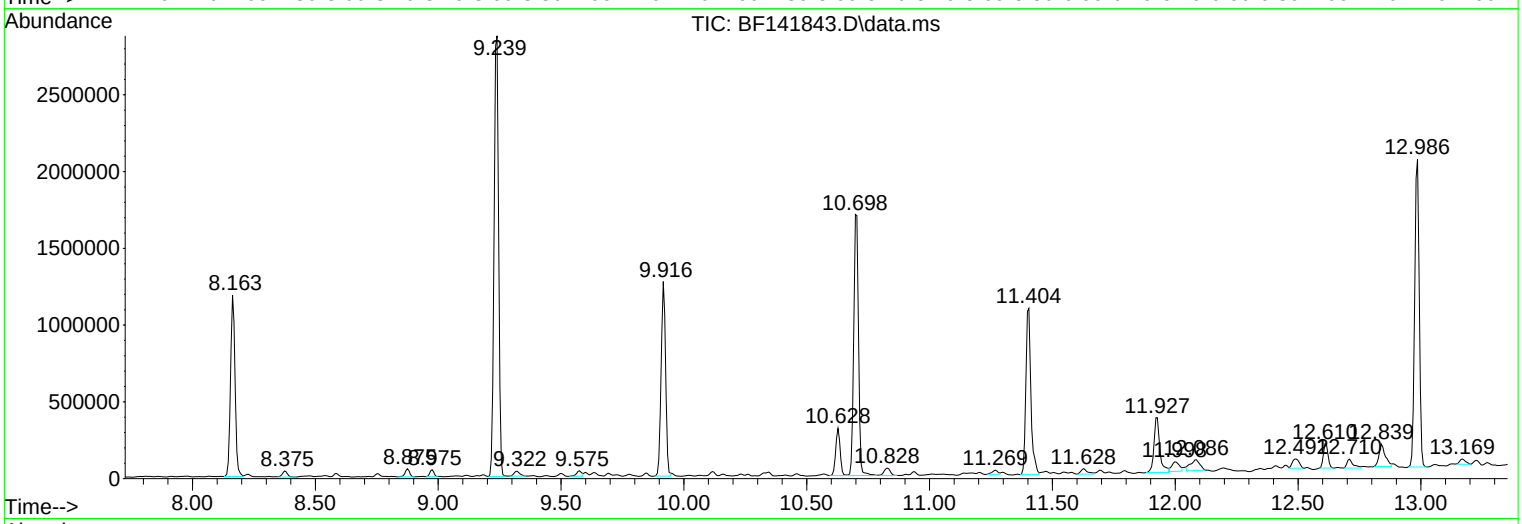
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

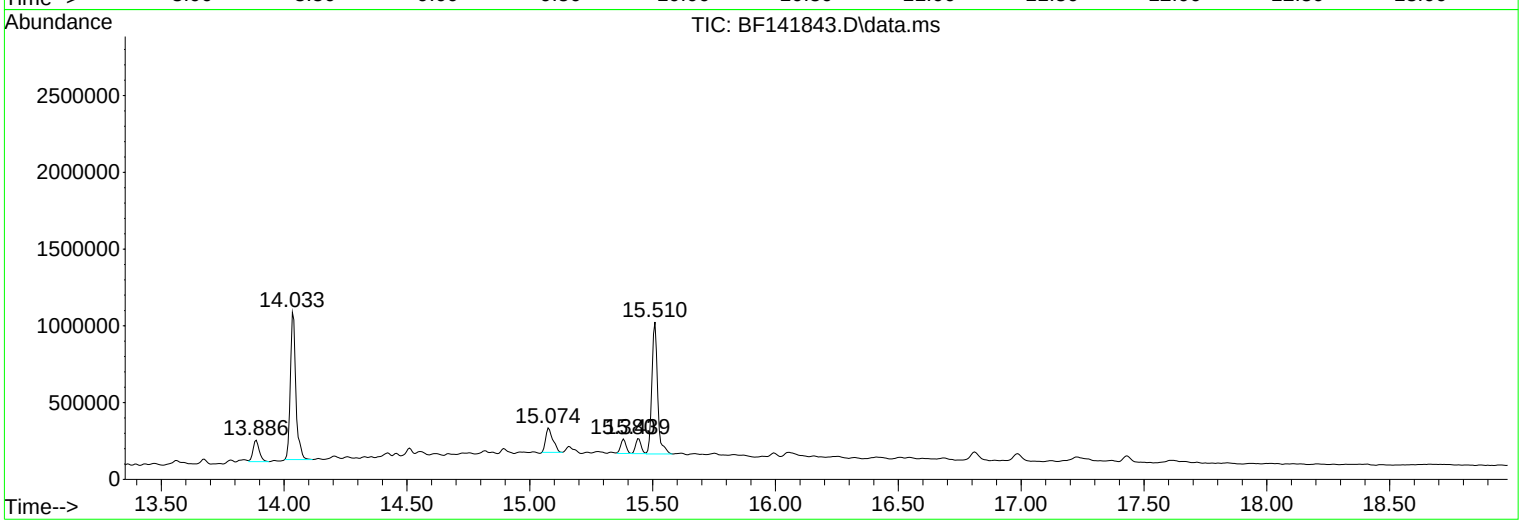
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

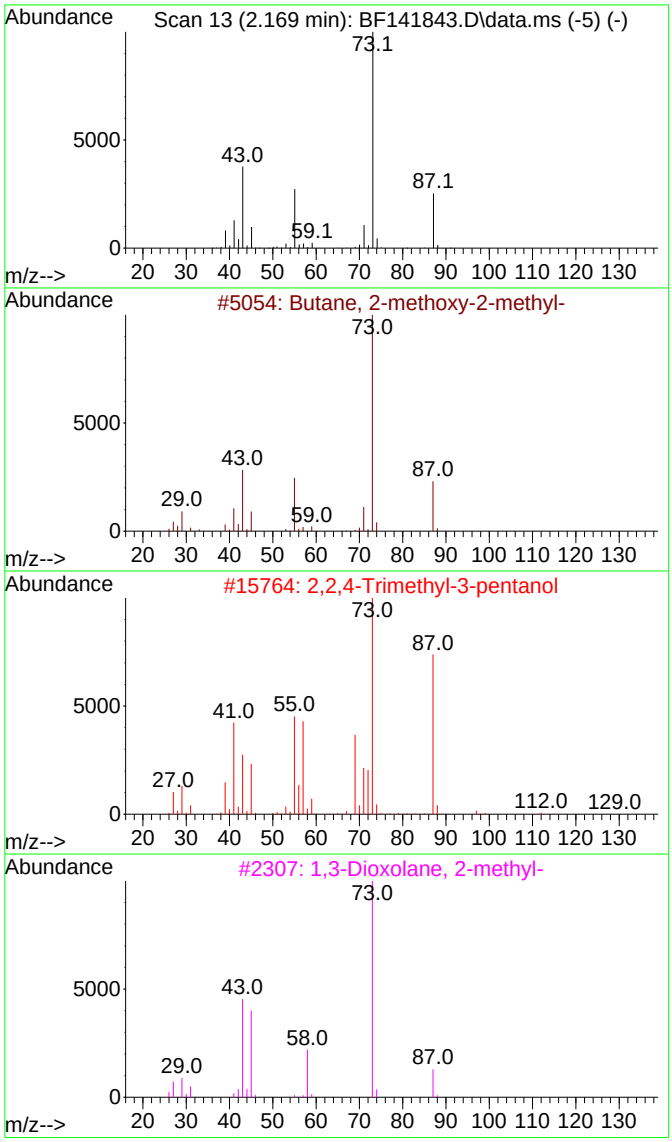
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

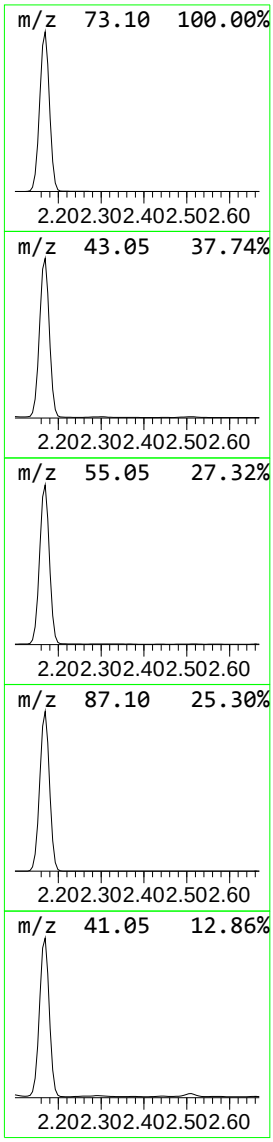
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	31.95 ng	1864820	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

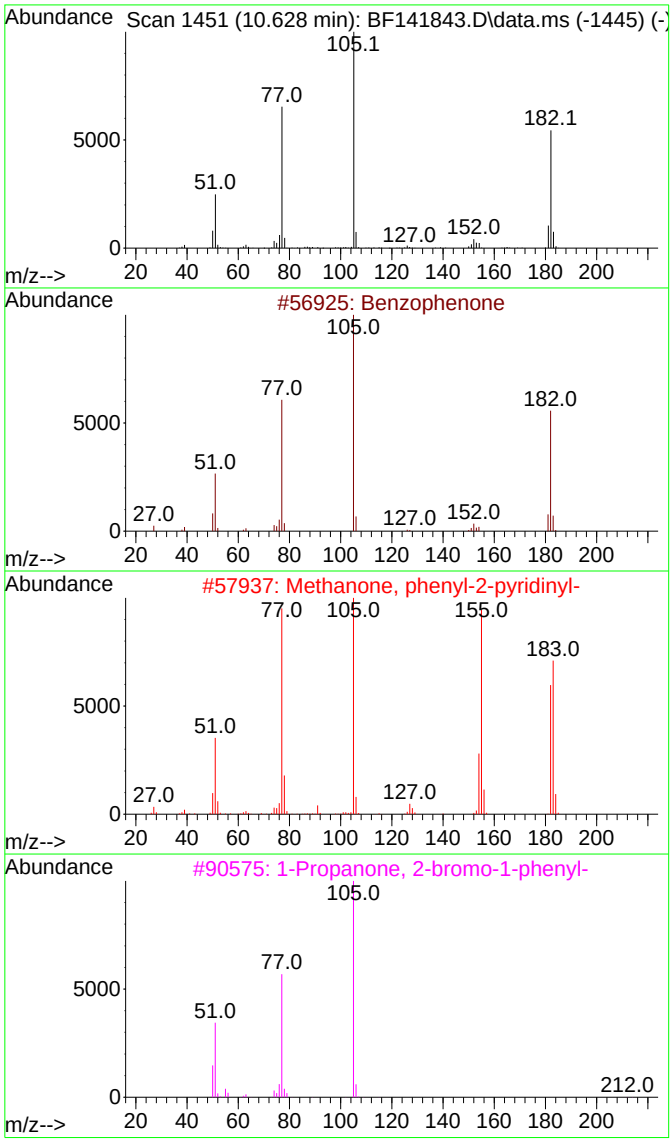
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

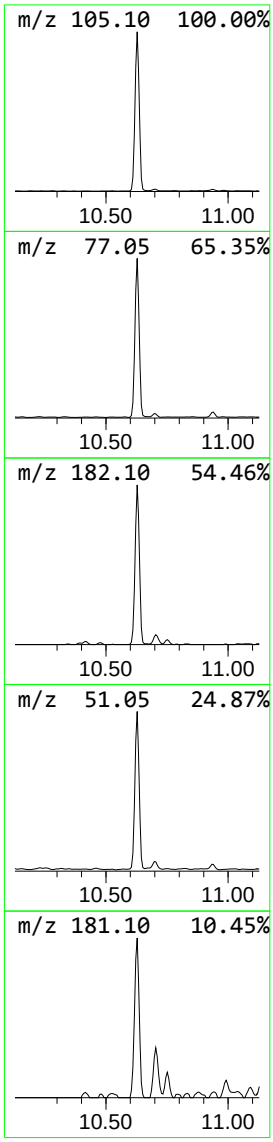
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	4.89 ng	387402	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	72
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On    : 05 Mar 2025  14:52
Operator  : RC/JU
Sample    : Q1488-09
Misc      :
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

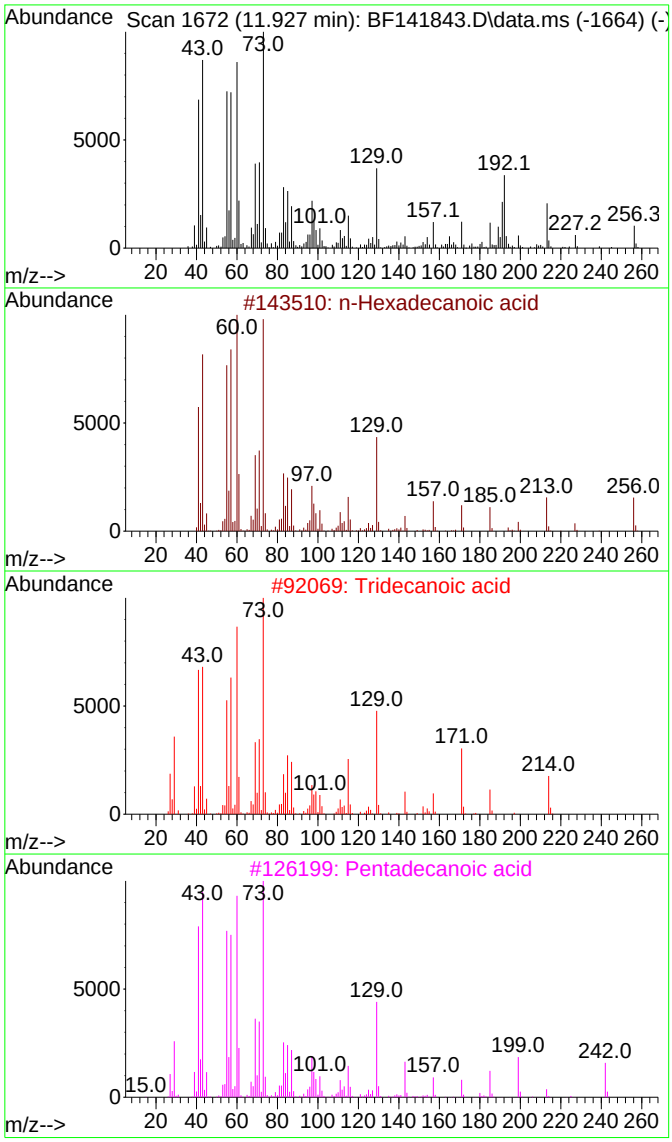
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

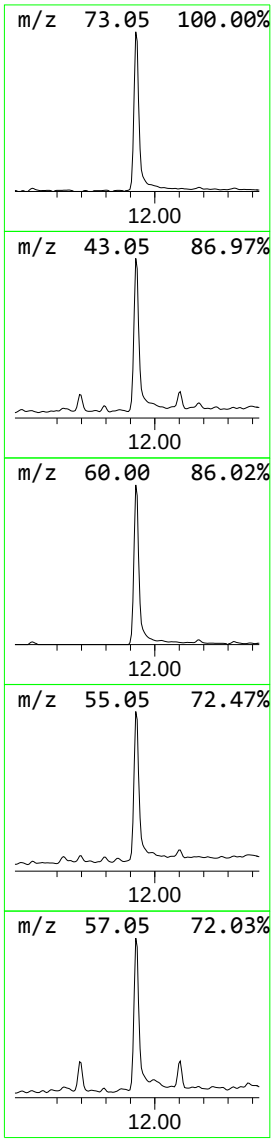
Instrument : BNA_F
ClientSampleId : ENV-104-SB01

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	7.80 ng	603851	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

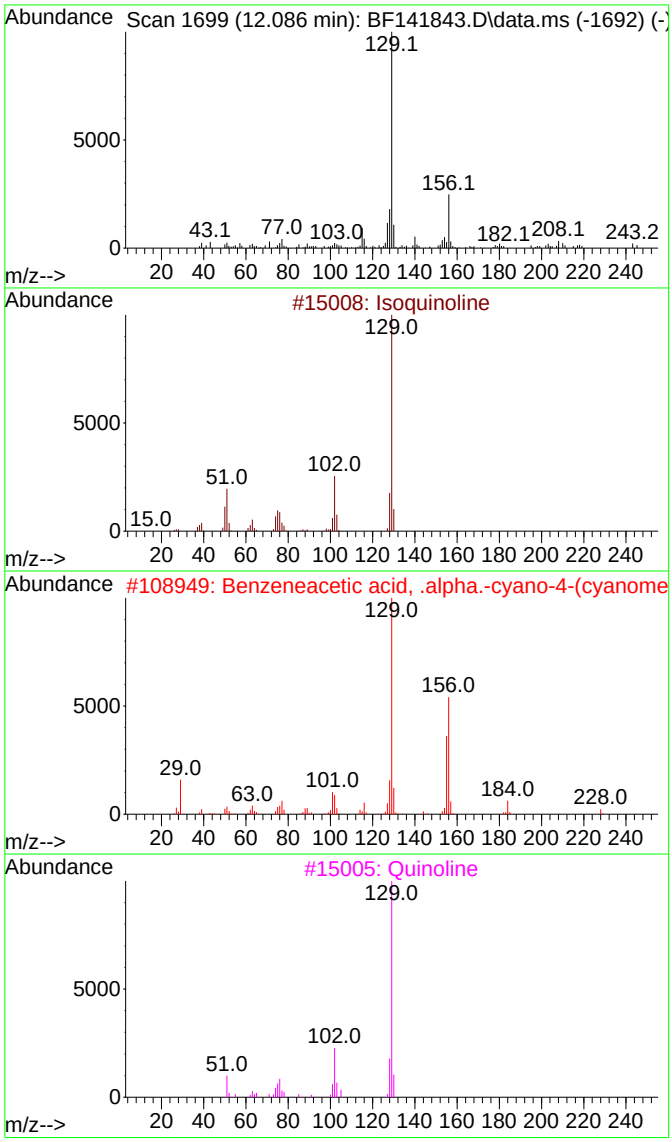
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

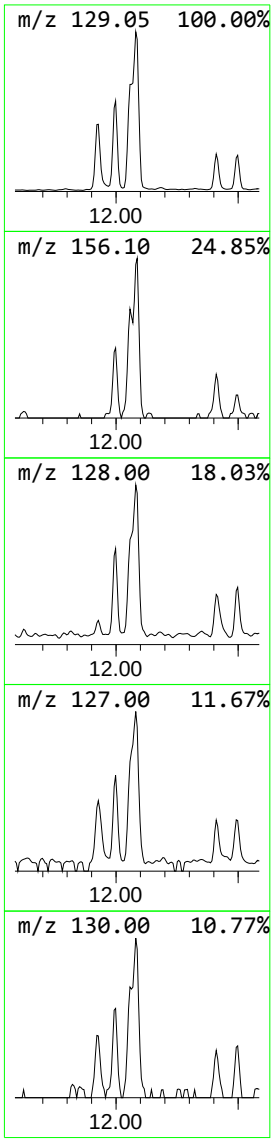
****

Peak Number 4 Isoquinoline Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.086	2.41 ng	186635	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoquinoline	129	C9H7N	000119-65-3	58
2	Benzeneacetic acid, .alpha.-cyan...	228	C13H12N2O2	134882-04-5	56
3	Quinoline	129	C9H7N	000091-22-5	53
4	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	50
5	1-Deuteronaphthalene	129	C10H7D	000875-62-7	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

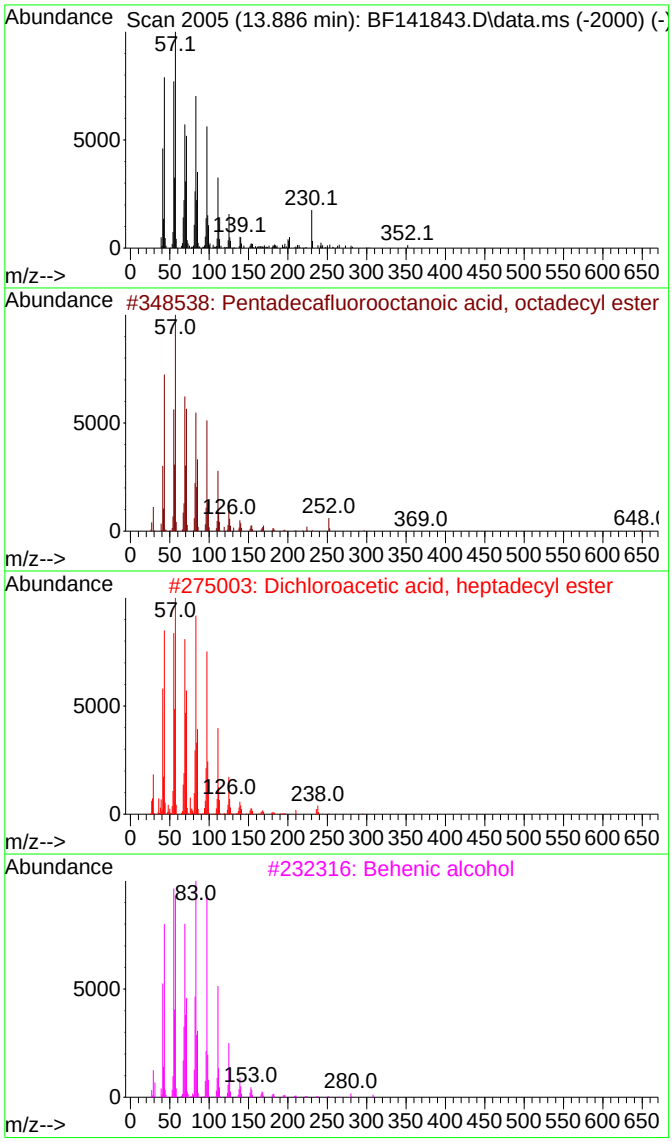
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

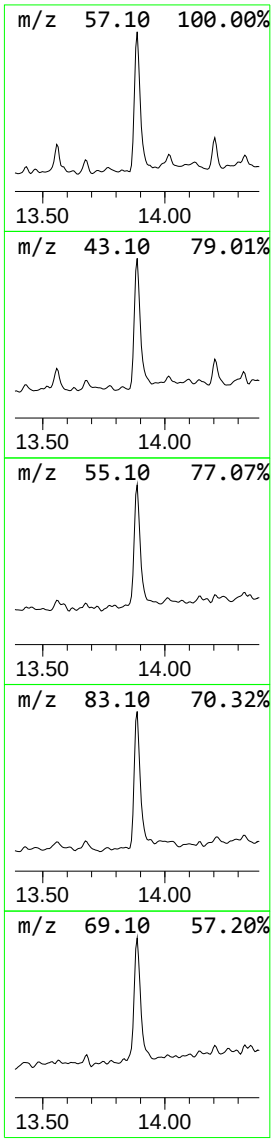
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Pentadecafluorooctanoic aci... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	3.27 ng	243634	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
3	Behenic alcohol	326	C22H46O	000661-19-8	93
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	93
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

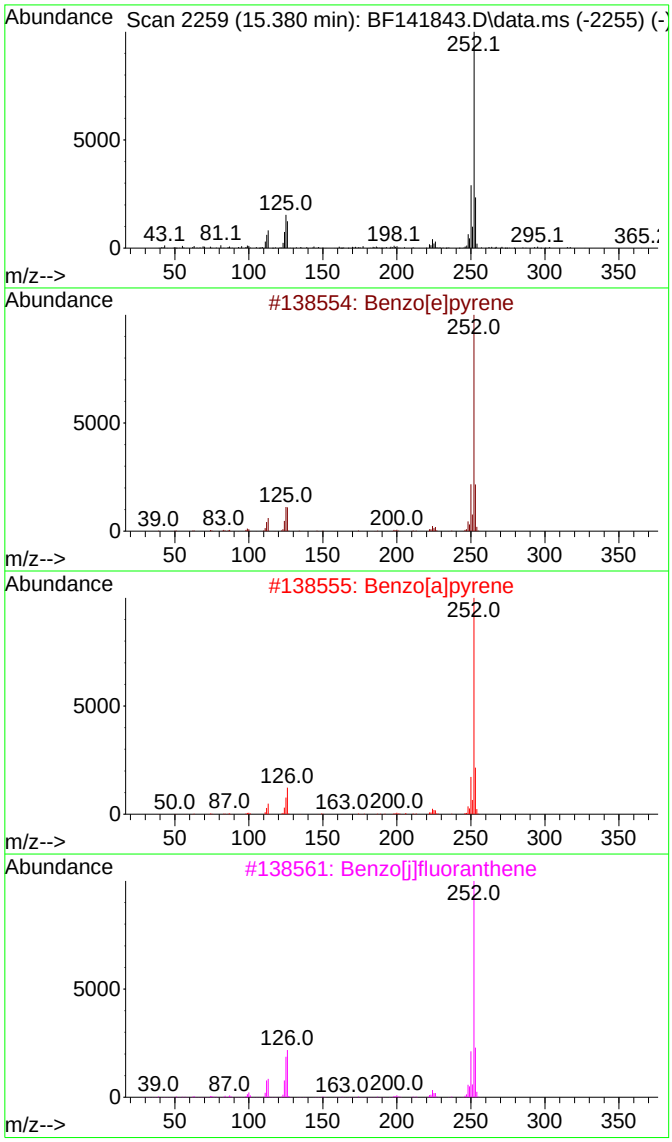
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

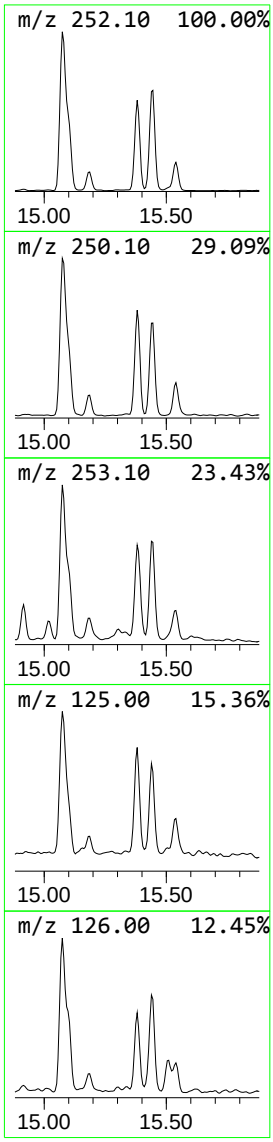
****

Peak Number 6 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.380	2.00 ng	140356	Perylene-d12	15.510

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.169	31.9	ng	1864820	1	6.887	1167400	20.0
Benzophenone	10.628	4.9	ng	387402	3	9.916	1583720	20.0
n-Hexadecanoic ...	11.928	7.8	ng	603851	4	11.404	1549320	20.0
Isoquinoline	12.086	2.4	ng	186635	4	11.404	1549320	20.0
Pentadecafluoro...	13.886	3.3	ng	243634	5	14.033	1490760	20.0
Benzo[e]pyrene	15.380	2.0	ng	140356	6	15.510	1401180	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

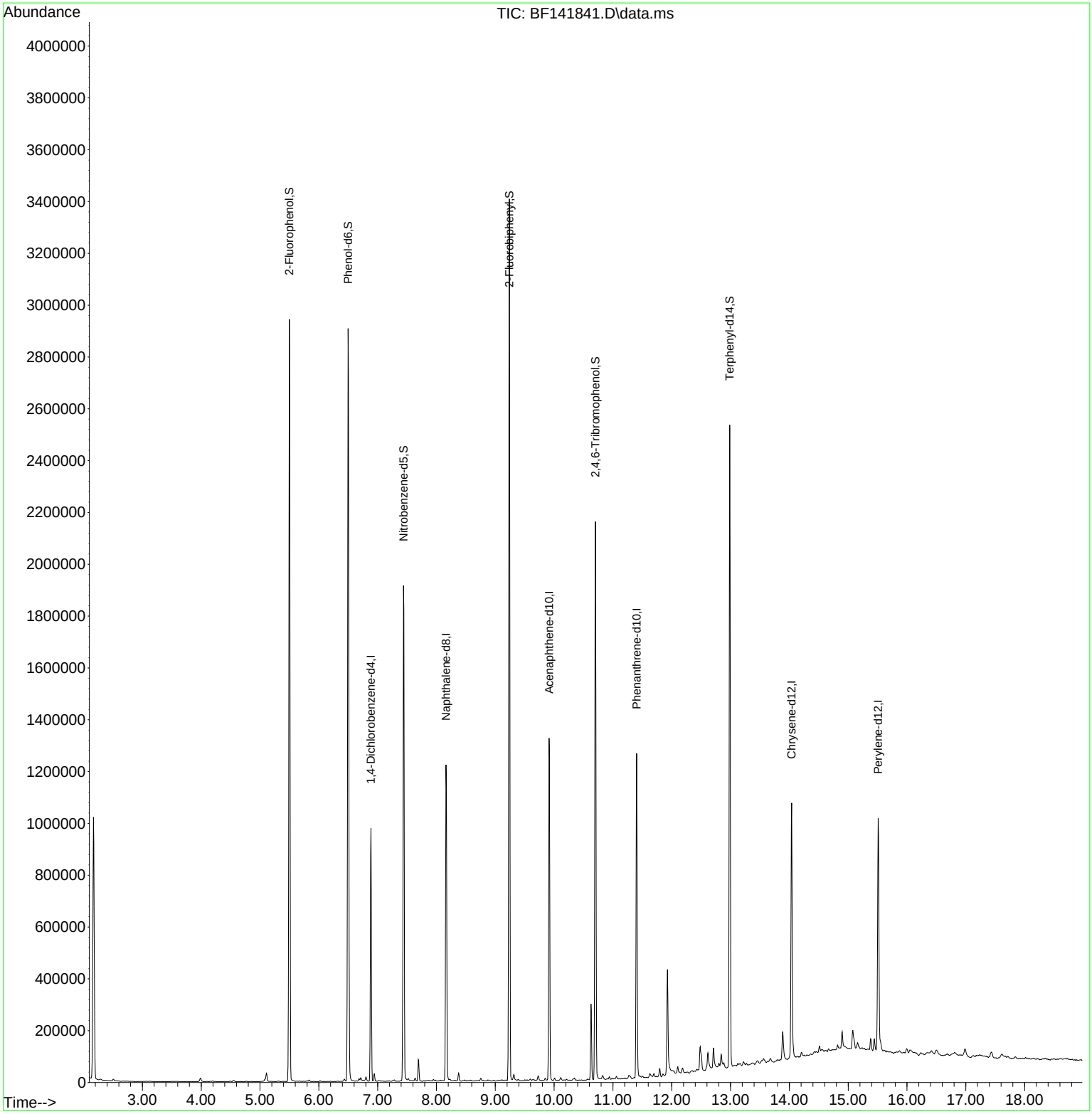
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	200259	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	760393	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	389790	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	614563	20.000	ng	0.00
76) Chrysene-d12	14.039	240	462576	20.000	ng	-0.01
86) Perylene-d12	15.509	264	512973	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1091570	87.048	ng	0.00
7) Phenol-d6	6.498	99	1376053	84.308	ng	-0.01
23) Nitrobenzene-d5	7.439	82	849034	71.371	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	336547	91.967	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1437189	59.120	ng	0.00
79) Terphenyl-d14	12.986	244	1168427	40.867	ng	-0.01
Target Compounds						Qvalue

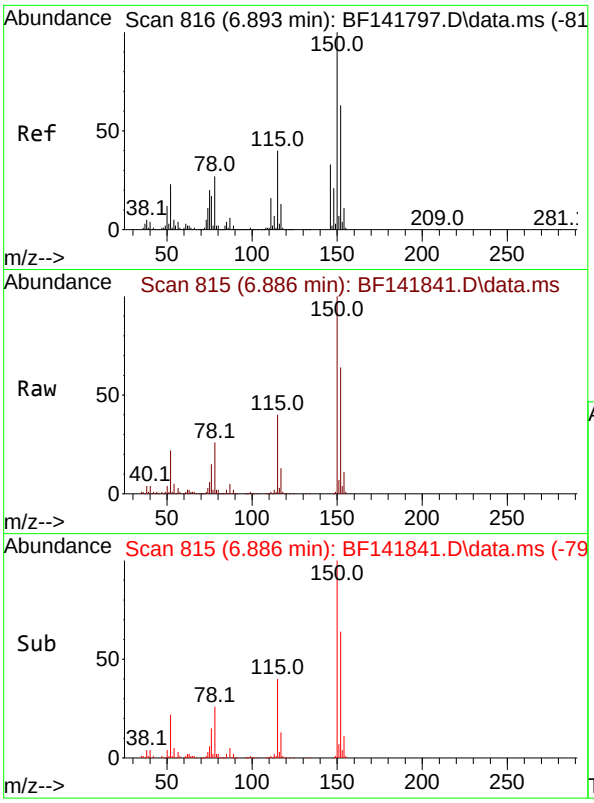
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



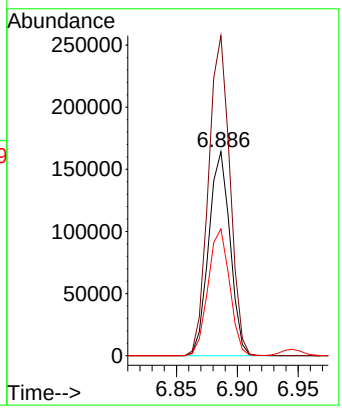


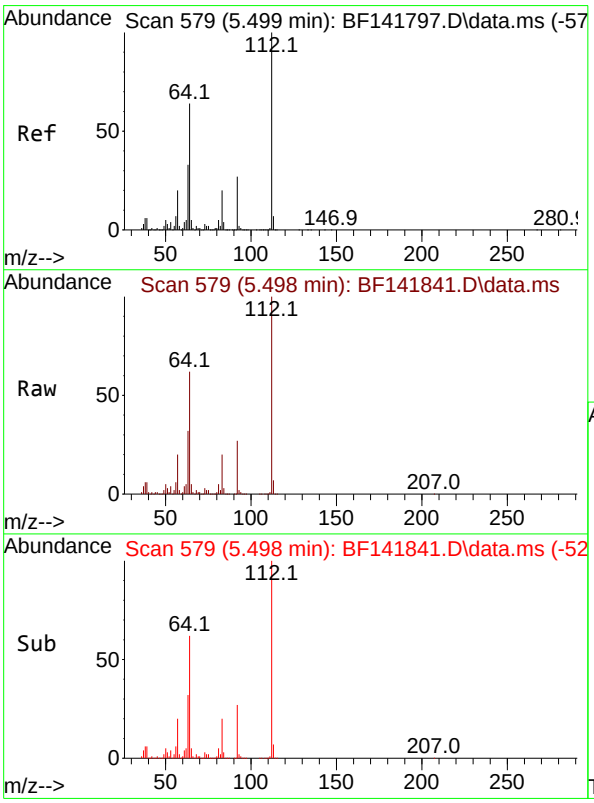
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:152 Resp: 200259

Ion	Ratio	Lower	Upper
152	100		
150	156.9	127.5	191.3
115	62.2	51.4	77.2

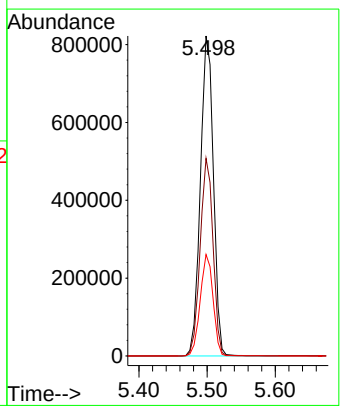


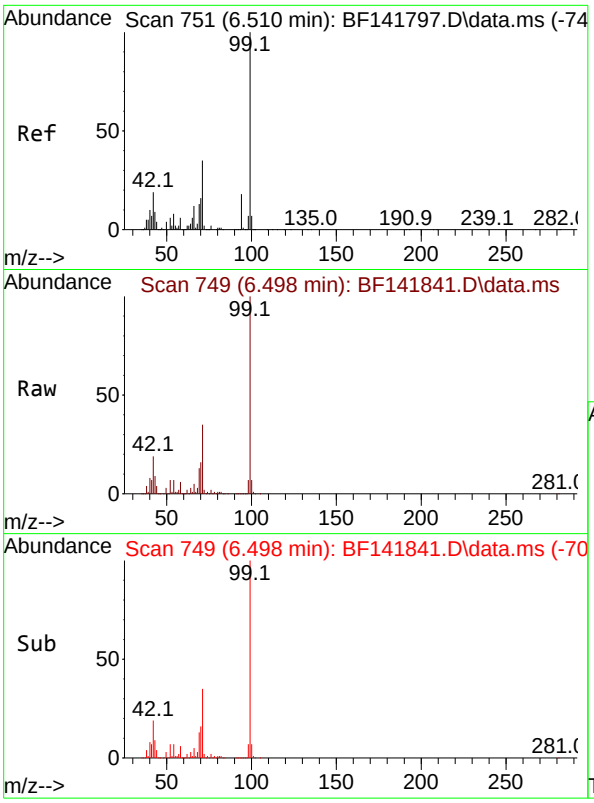


#5
2-Fluorophenol
Concen: 87.048 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:112 Resp: 1091570

Ion	Ratio	Lower	Upper
112	100		
64	61.8	51.3	76.9
63	31.7	26.2	39.4



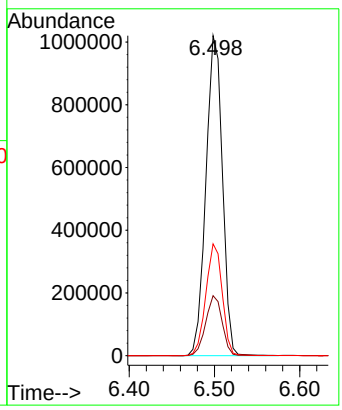


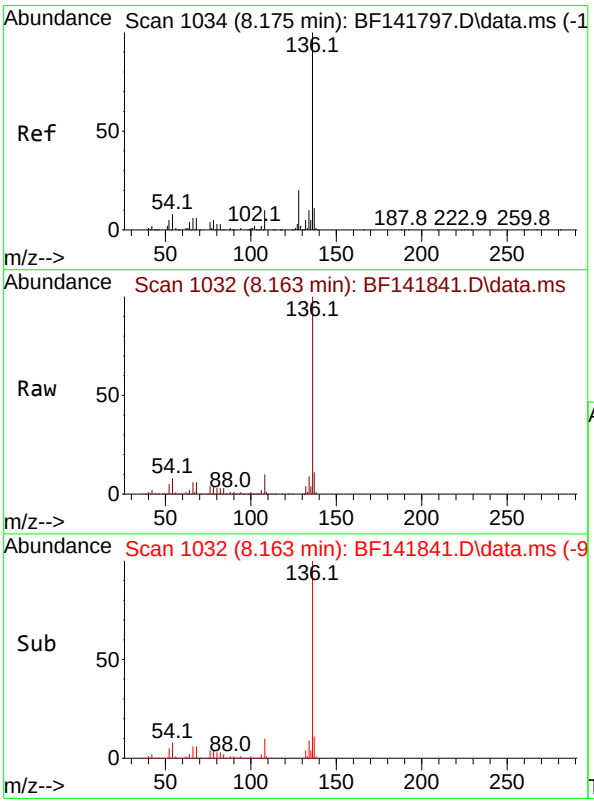
#7
Phenol-d6
Concen: 84.308 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion: 99 Resp: 1376053

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	34.9	28.2	42.2

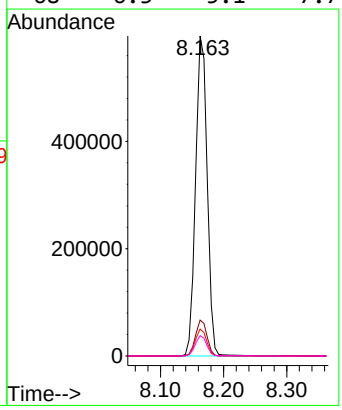


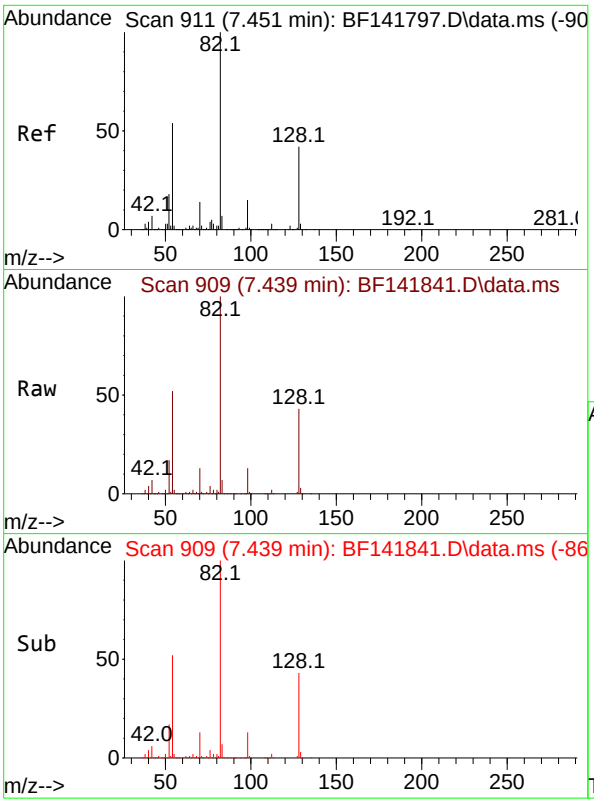


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:136 Resp: 760393

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.4	6.9	10.3
68	6.3	5.1	7.7



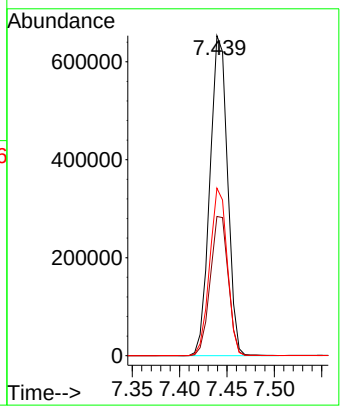


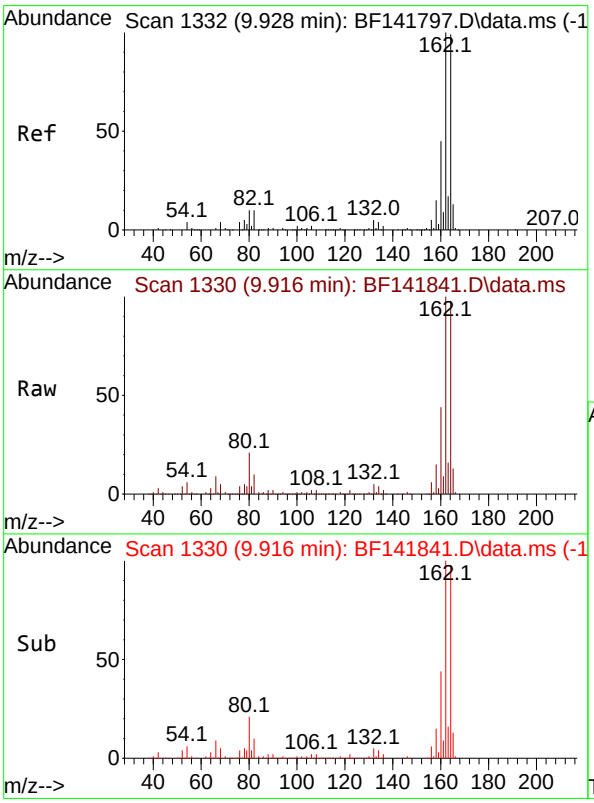
#23
Nitrobenzene-d5
Concen: 71.371 ng
RT: 7.439 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion: 82 Resp: 849034

Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.5	50.3
54	52.4	42.7	64.1

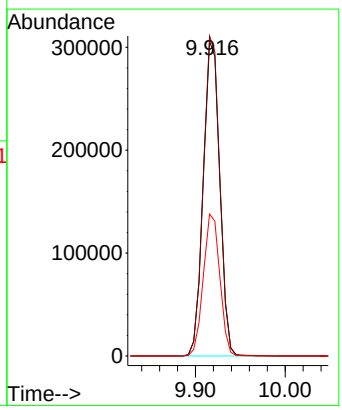


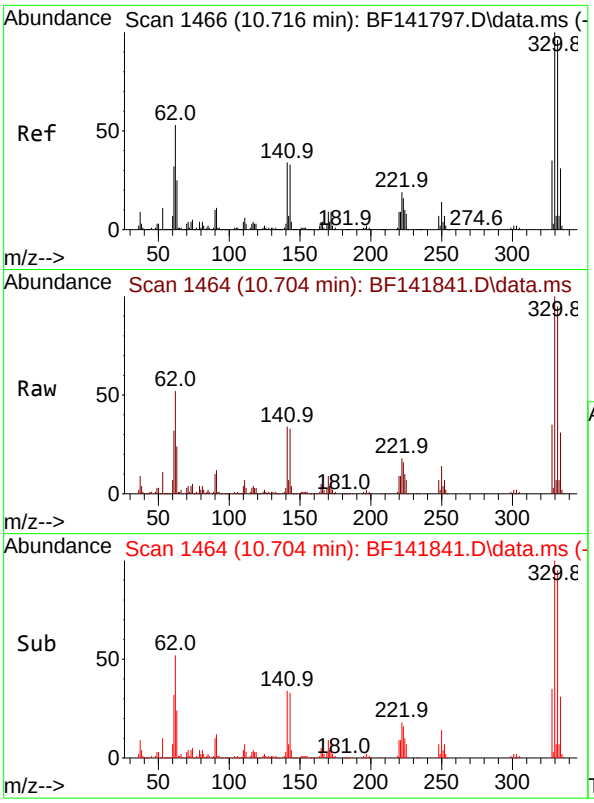


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:164 Resp: 389790

Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.1	36.3	54.5



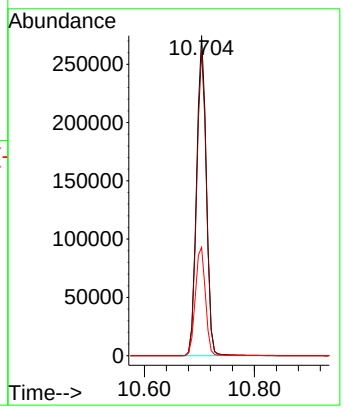


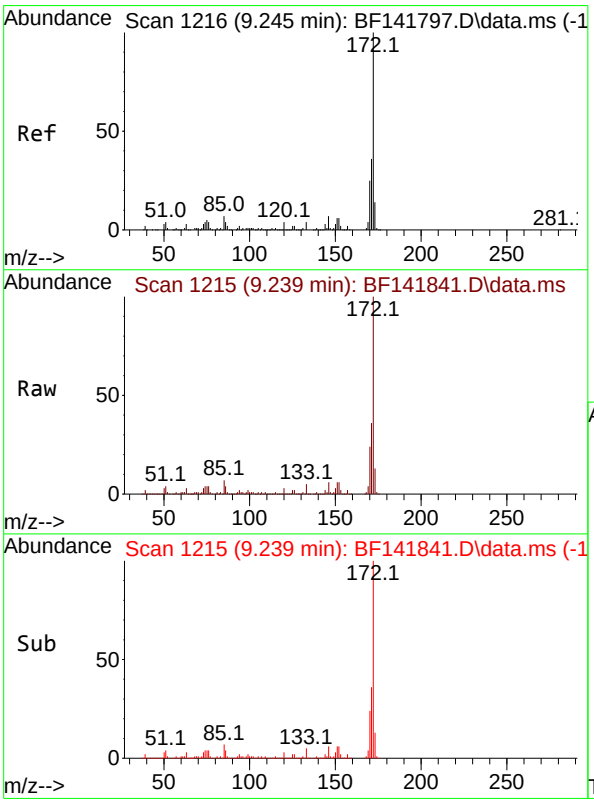
#42
2,4,6-Tribromophenol
Concen: 91.967 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:330 Resp: 336547

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	35.1	29.0	43.4

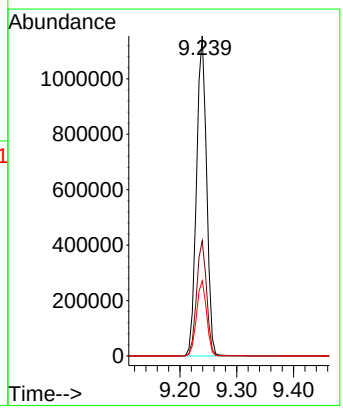


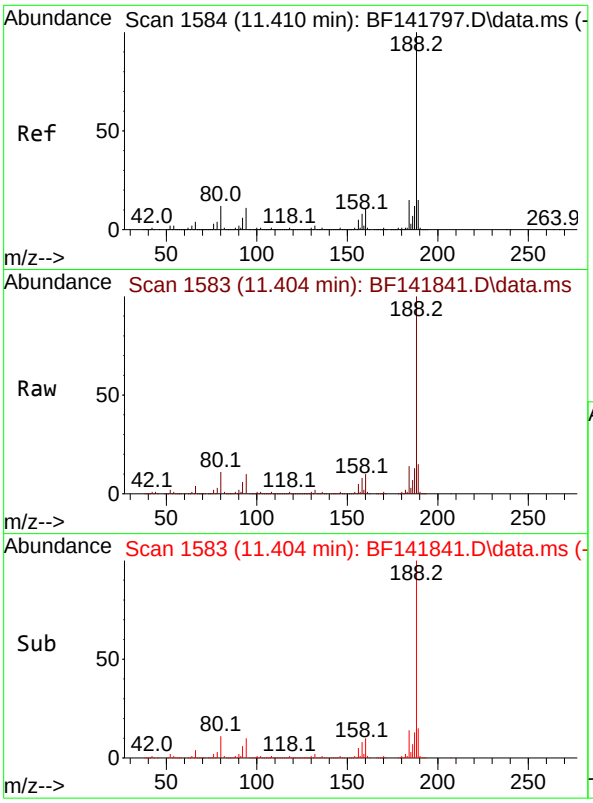


#45
2-Fluorobiphenyl
Concen: 59.120 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:172 Resp: 1437189

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.2	43.8
170	23.5	19.7	29.5



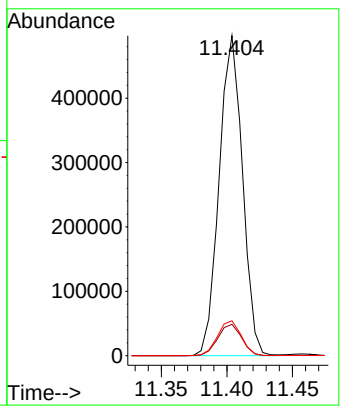


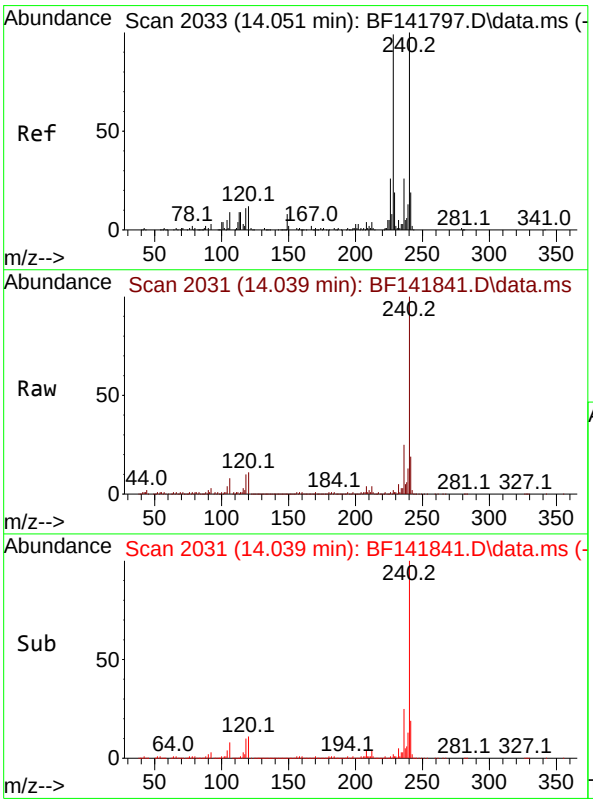
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:188 Resp: 614563

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.9	13.3
80	10.9	9.7	14.5

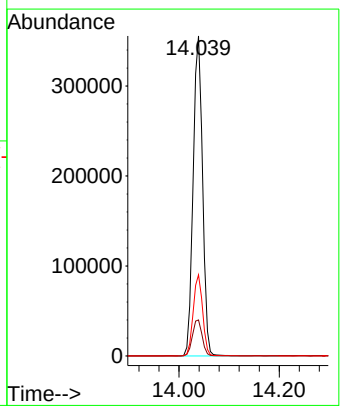


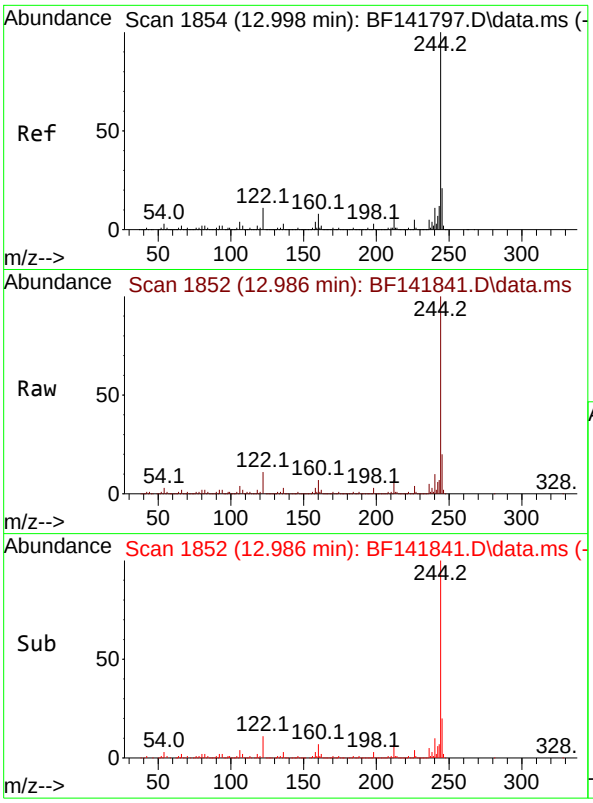


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:240 Resp: 462576

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.7	14.5
236	25.3	21.0	31.4



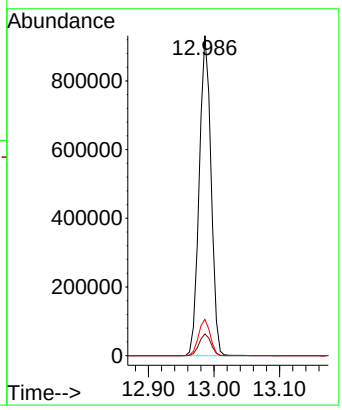


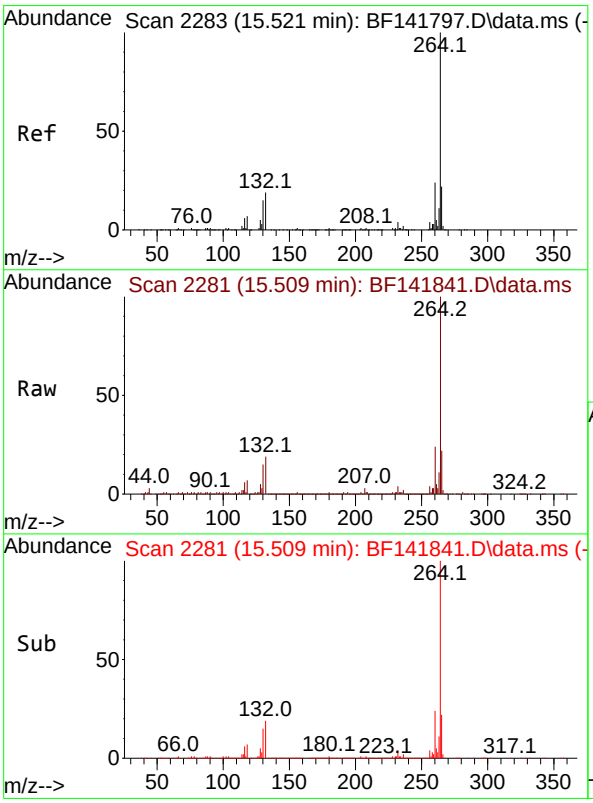
#79
Terphenyl-d14
Concen: 40.867 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:244 Resp: 1168427

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	11.3	9.0	13.6

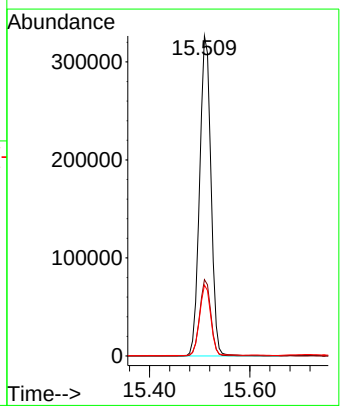




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:264 Resp: 512973

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	22.2	17.4	26.0



Sample Results: **BF141841.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	6	13	29	rVB	1013467	1614472	38.09%	4.853%
2	5.110	499	513	519	rBV2	31332	59491	1.40%	0.179%
3	5.498	573	579	584	rBV	2941856	3867796	91.26%	11.627%
4	6.498	743	749	763	rBV	2904662	3994341	94.25%	12.008%
5	6.886	809	815	820	rBV	976155	1204423	28.42%	3.621%
6	7.439	903	909	914	rBV	1911461	2489839	58.75%	7.485%
7	7.692	948	952	960	rVB	82867	105069	2.48%	0.316%
8	8.163	1026	1032	1040	rBV	1219125	1563229	36.89%	4.699%
9	8.375	1063	1068	1076	rVB2	32007	45994	1.09%	0.138%
10	9.239	1209	1215	1220	rBV	3403635	4238028	100.00%	12.740%
11	9.916	1325	1330	1336	rBV	1318802	1673935	39.50%	5.032%
12	10.627	1446	1451	1458	rBV	293649	366543	8.65%	1.102%
13	10.704	1458	1464	1469	rBV	2153680	2702677	63.77%	8.125%
14	11.404	1578	1583	1590	rBV	1251628	1585655	37.41%	4.767%
15	11.798	1645	1650	1655	rVB	31939	45050	1.06%	0.135%
16	11.927	1666	1672	1684	rBV	407307	636086	15.01%	1.912%
17	12.486	1762	1767	1778	rVB3	91635	186634	4.40%	0.561%
18	12.615	1782	1789	1798	rBV	65147	137548	3.25%	0.413%
19	12.710	1801	1805	1817	rBV	77774	130929	3.09%	0.394%
20	12.839	1824	1827	1833	rBV	42855	60177	1.42%	0.181%
21	12.986	1847	1852	1860	rBV	2477050	3126522	73.77%	9.399%
22	13.886	2001	2005	2015	rVB	105691	181518	4.28%	0.546%
23	14.039	2025	2031	2044	rVB	980625	1390727	32.82%	4.181%
24	14.898	2173	2177	2197	rVB2	65023	124676	2.94%	0.375%
25	15.080	2204	2208	2216	rVB	68123	141643	3.34%	0.426%
26	15.380	2256	2259	2265	rVB	45719	67624	1.60%	0.203%
27	15.445	2267	2270	2275	rVV	44581	64179	1.51%	0.193%
28	15.509	2275	2281	2295	rVB	897339	1460023	34.45%	4.389%

Sum of corrected areas: 33264828

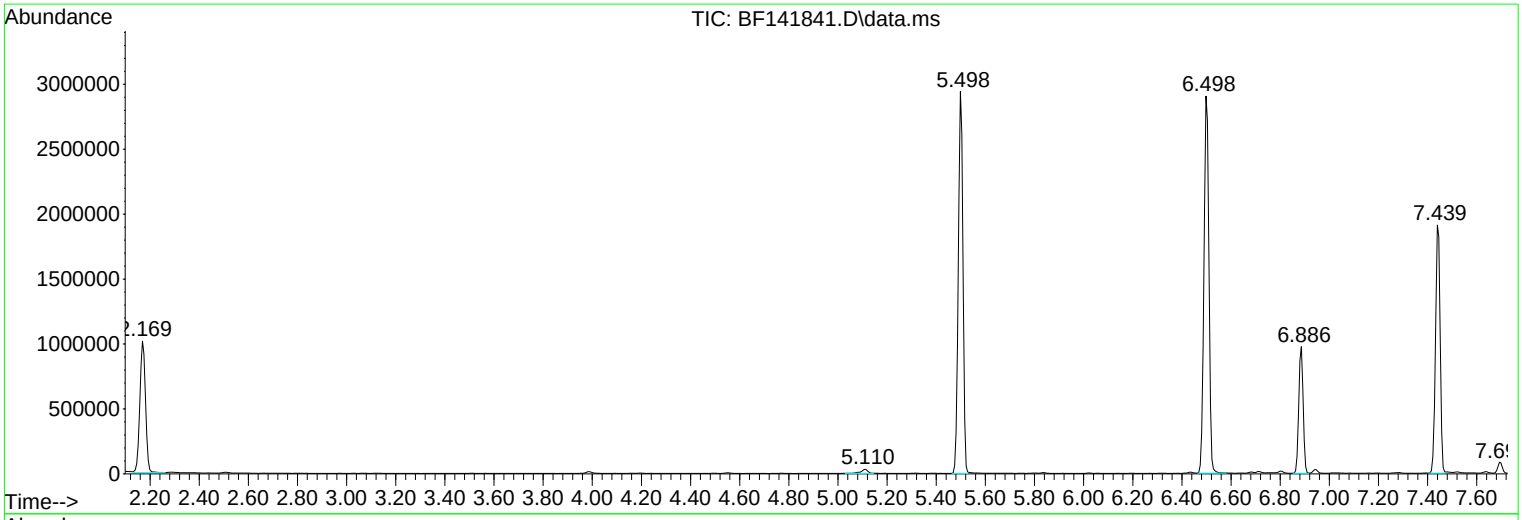
Sample Results: **BF141841.D**

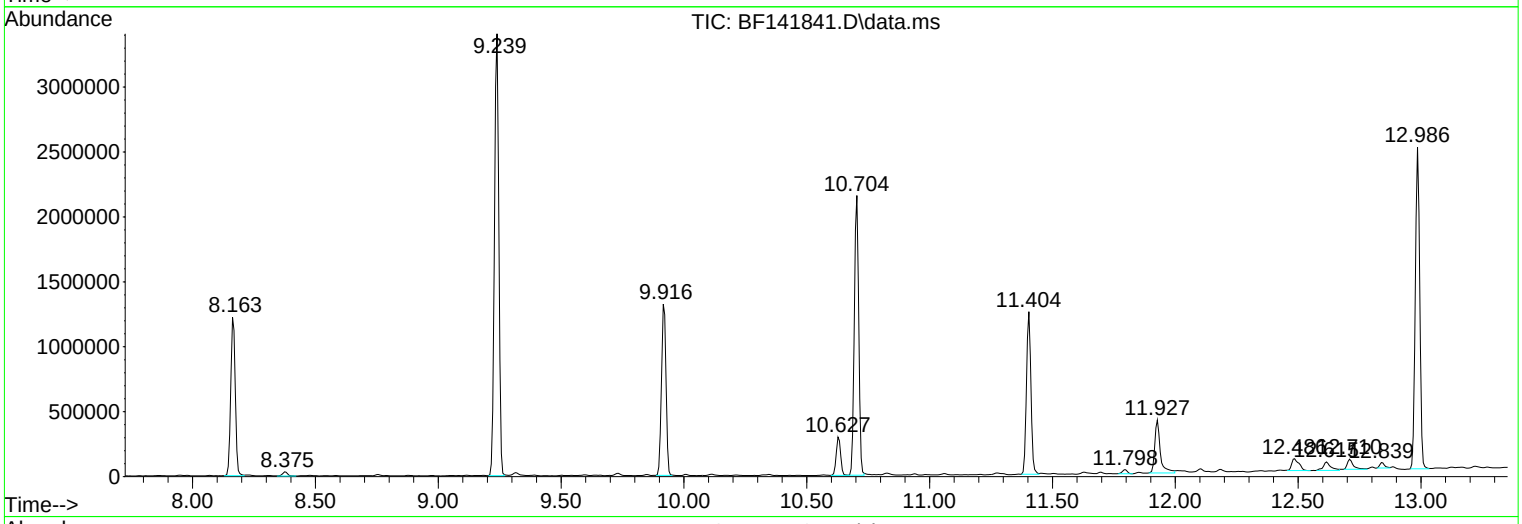
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

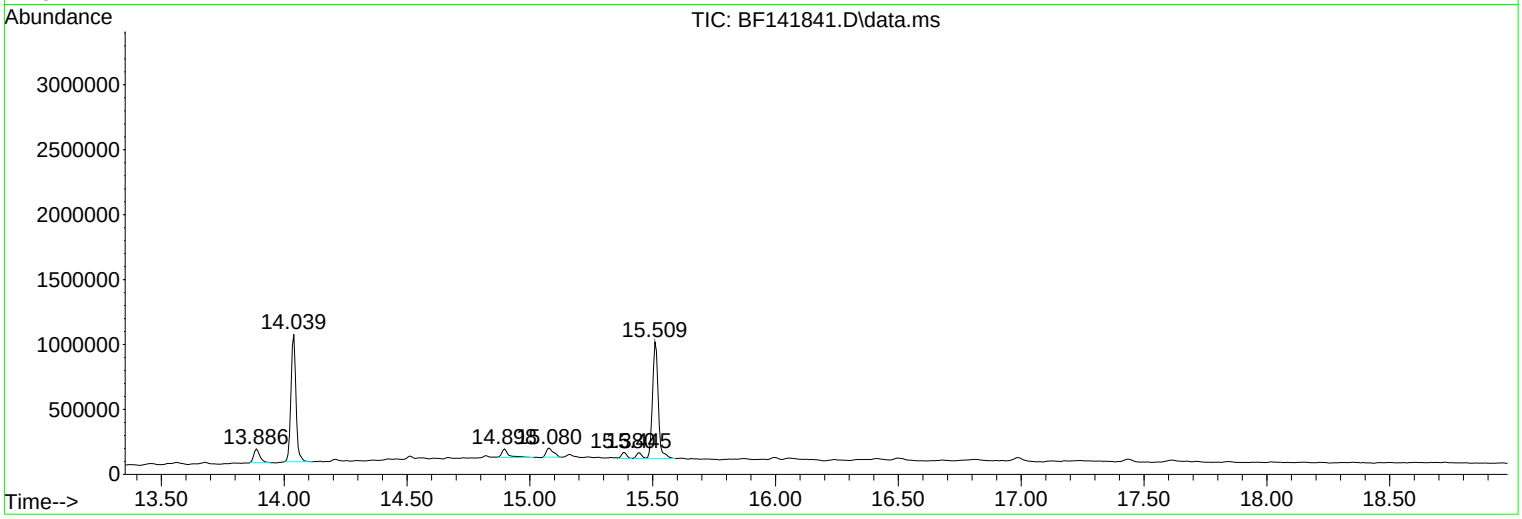
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

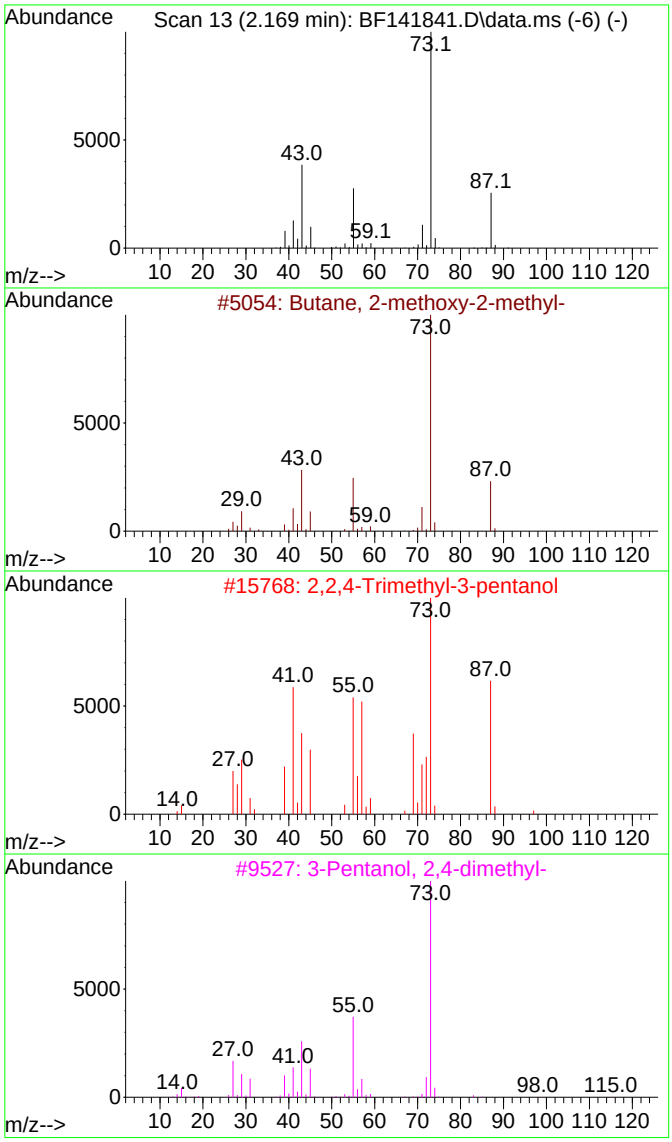
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

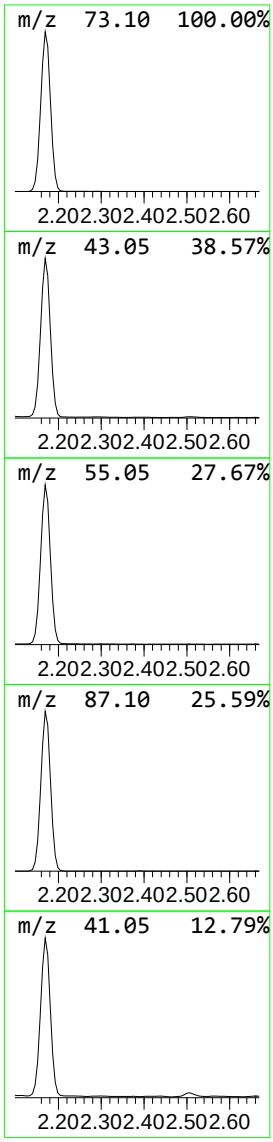
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	26.81 ng	1614470	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

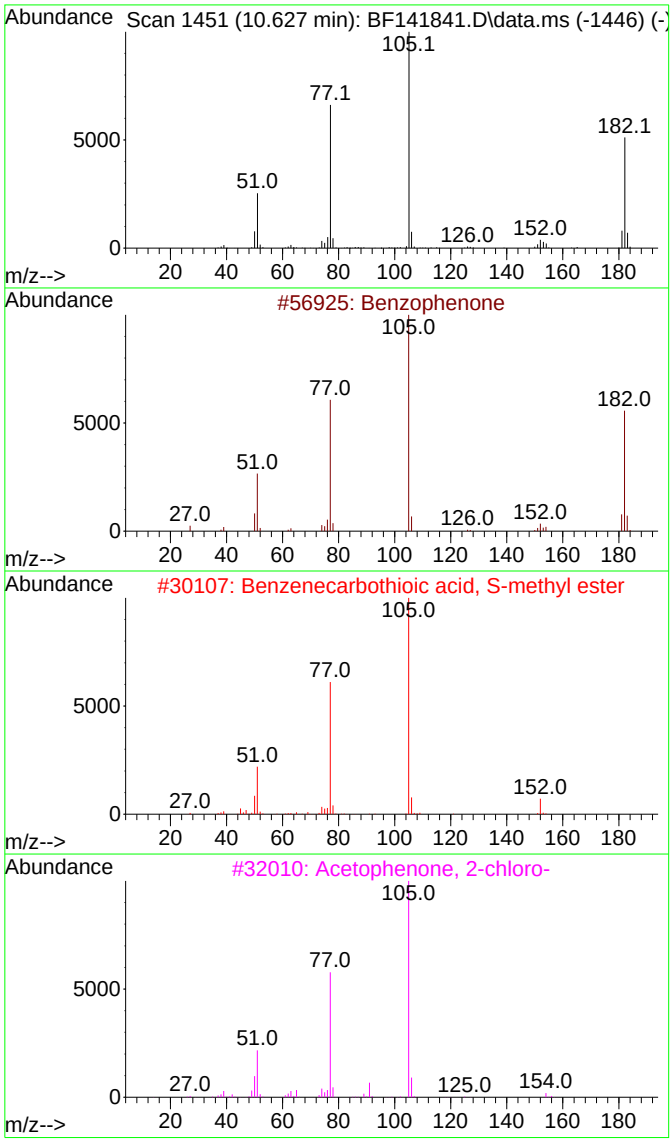
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

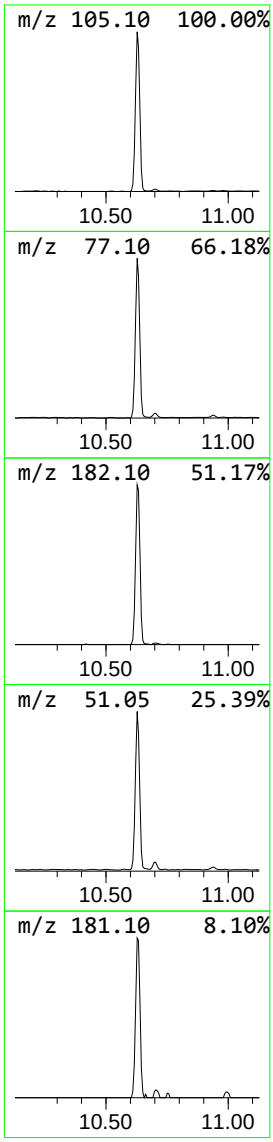
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.38 ng	366543	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On    : 05 Mar 2025  13:53
Operator  : RC/JU
Sample    : Q1488-11
Misc      :
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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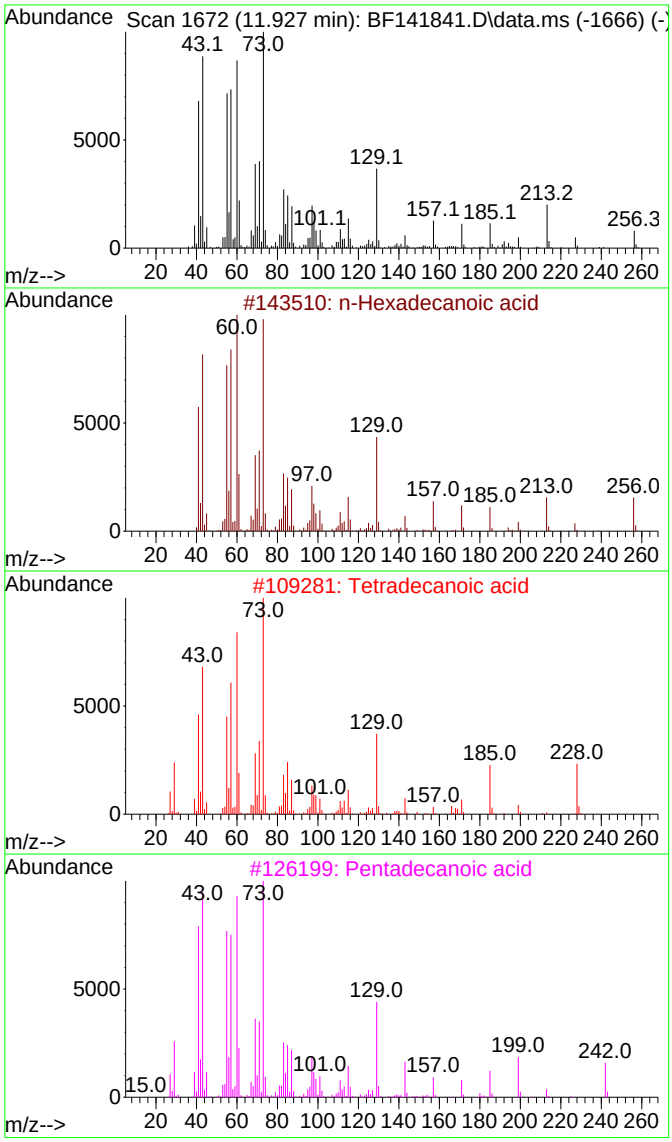
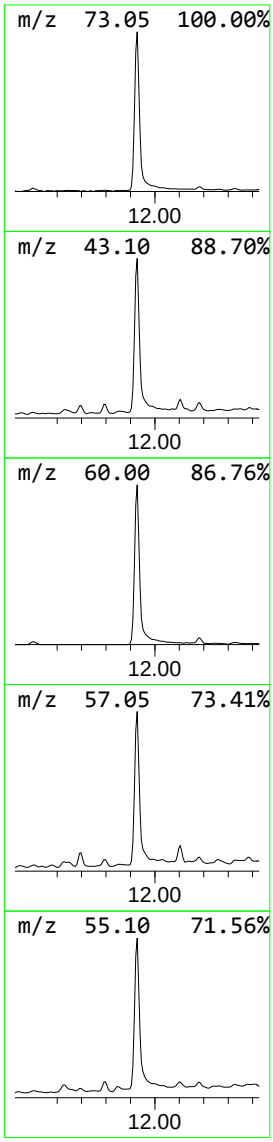

Instrument : BNA_F
ClientSampleId : ENV-104-SB02

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	8.02 ng	636086	Phenanthrene-d10	11.404

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	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	87
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

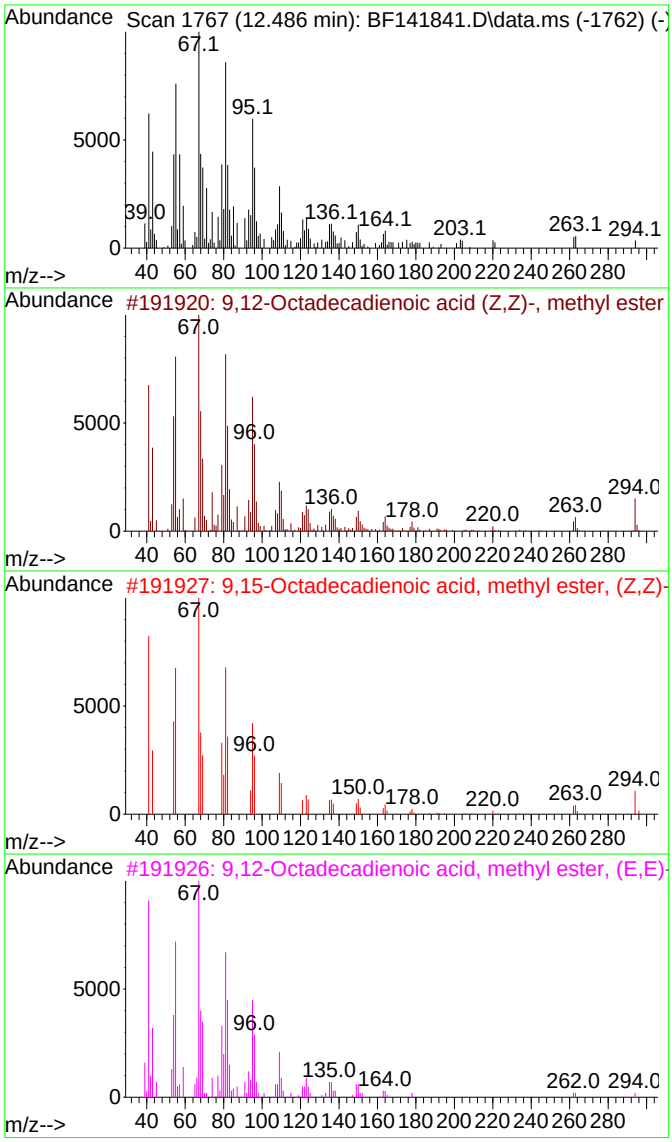
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

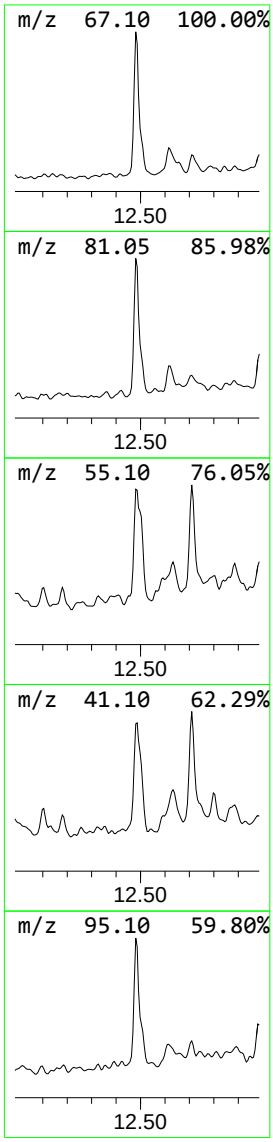
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 9,12-Octadecadienoic acid (... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.486	2.35 ng	186634	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
2	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
3	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	96
4	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	94
5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

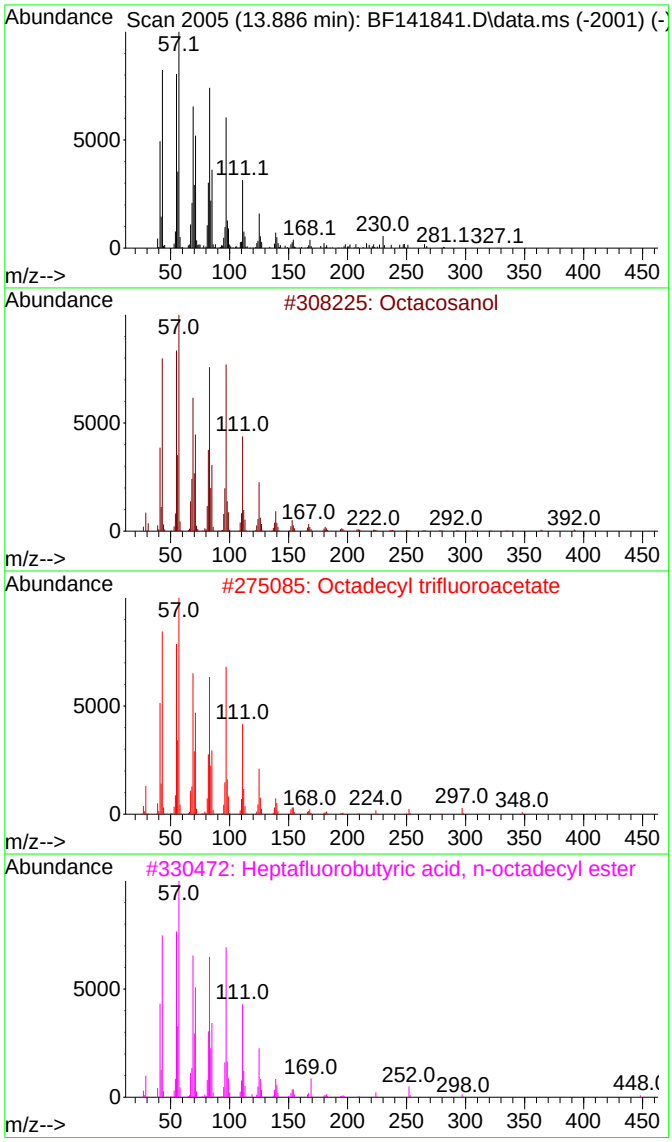
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

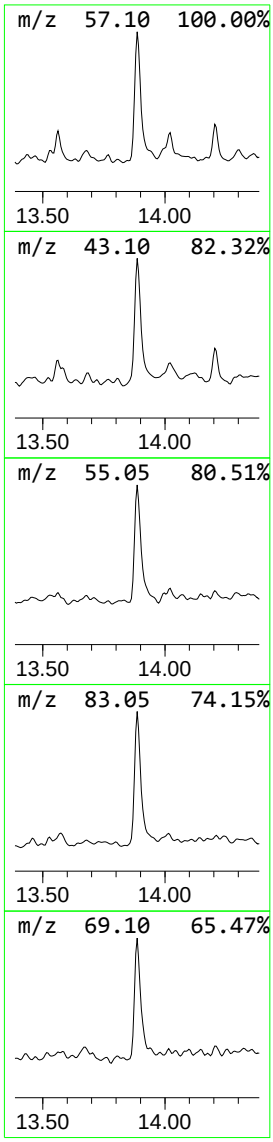
****

Peak Number 5 Octacosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	2.61 ng	181518	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosanol	410	C28H58O	000557-61-9	91
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
3	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91
4	Butyl docosyl ether	382	C26H54O	1000406-40-8	91
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.169	26.8	ng	1614470	1	6.886	1204420	20.0
Benzophenone	10.627	4.4	ng	366543	3	9.916	1673940	20.0
n-Hexadecanoic ...	11.927	8.0	ng	636086	4	11.404	1585660	20.0
9,12-Octadecadi...	12.486	2.4	ng	186634	4	11.404	1585660	20.0
Octacosanol	13.886	2.6	ng	181518	5	14.039	1390730	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

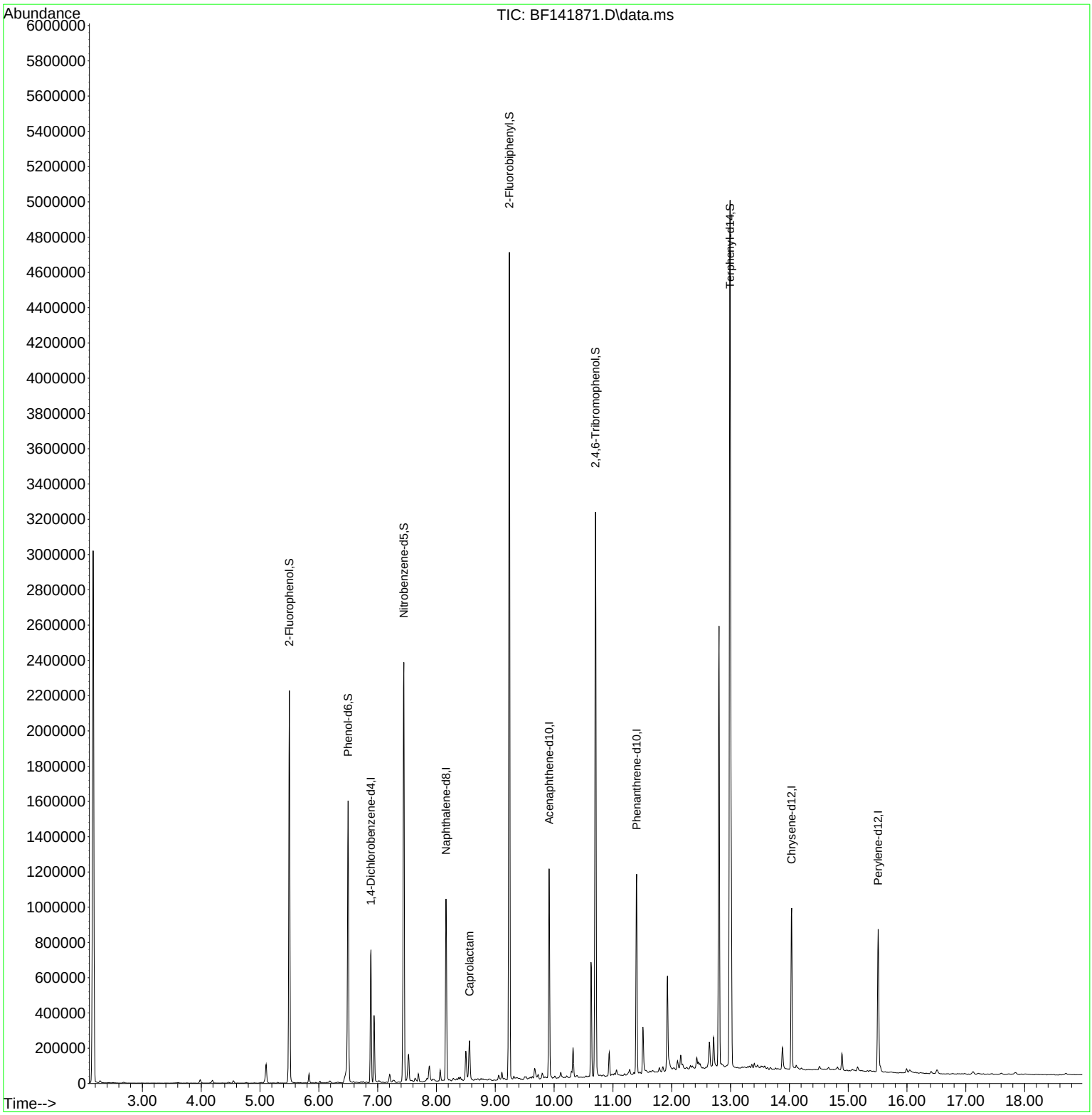
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	157960	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	631847	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	343111	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	586477	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	448542	20.000	ng	-0.01
86) Perylene-d12	15.510	264	460671	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	817936	82.694	ng	0.00
7) Phenol-d6	6.498	99	708314	55.018	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1104750	111.761	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	561334	174.263	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2021701	94.479	ng	0.00
79) Terphenyl-d14	12.992	244	2430546	87.671	ng	0.00
Target Compounds						Qvalue
35) Caprolactam	8.563	113	37378	13.492	ng	93

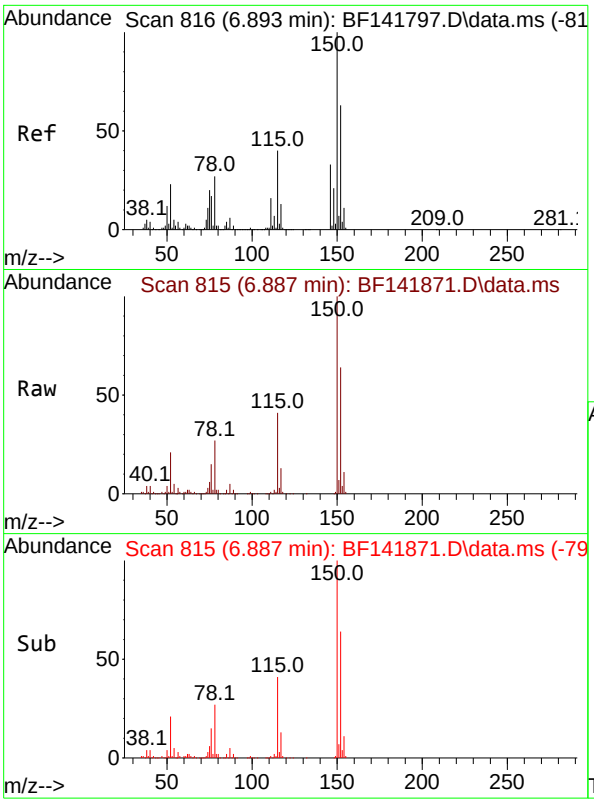
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



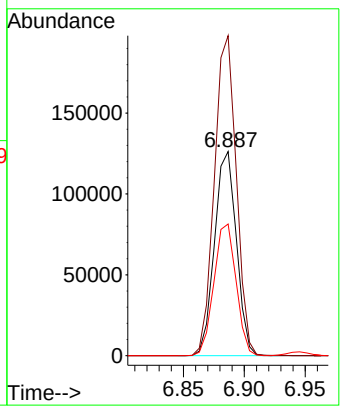


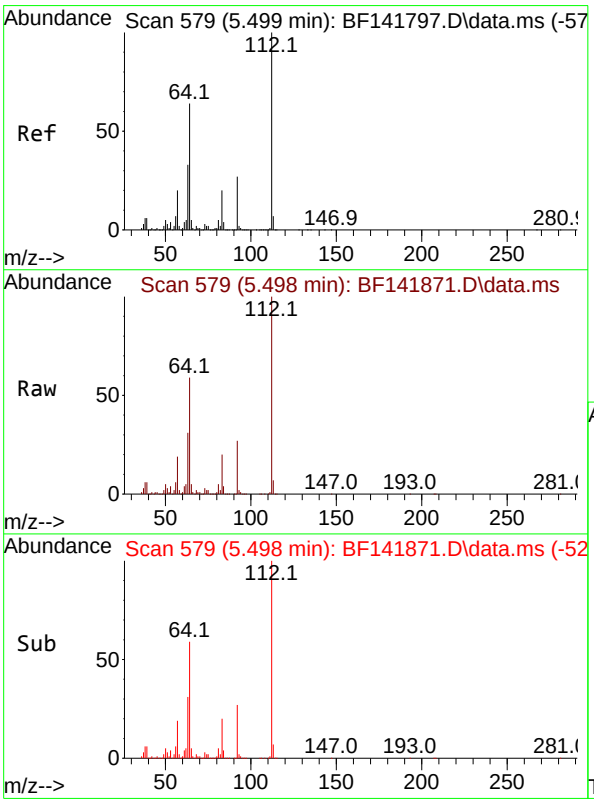
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:152 Resp: 157960

Ion	Ratio	Lower	Upper
152	100		
150	156.7	127.5	191.3
115	64.5	51.4	77.2

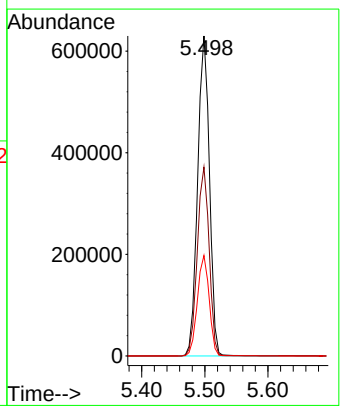


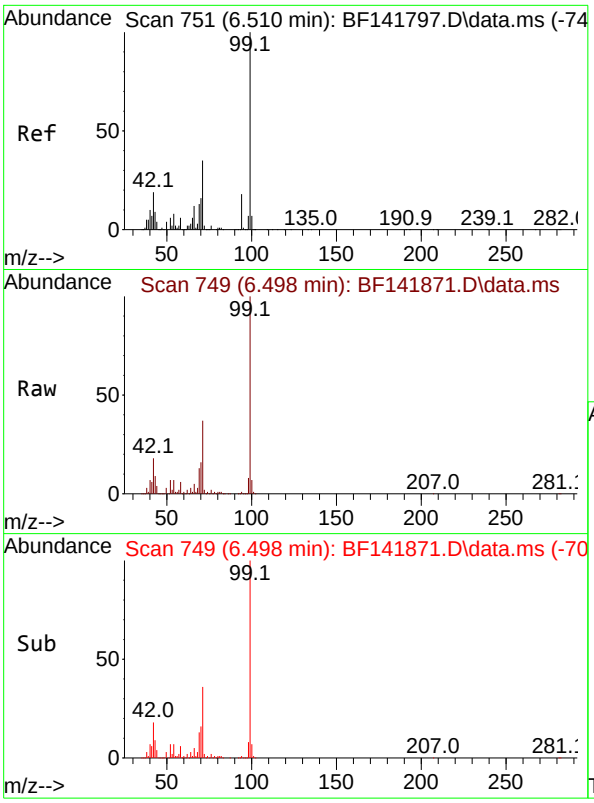


#5
2-Fluorophenol
Concen: 82.694 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:112 Resp: 817936

Ion	Ratio	Lower	Upper
112	100		
64	59.0	51.3	76.9
63	31.4	26.2	39.4



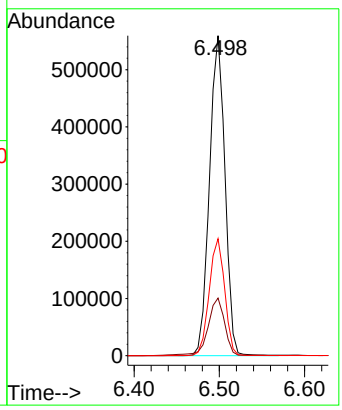


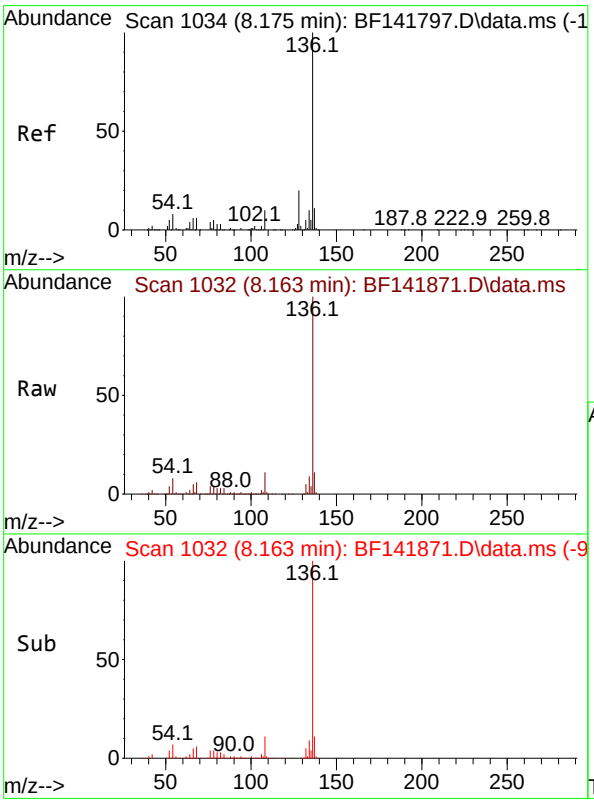
#7
Phenol-d6
Concen: 55.018 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion: 99 Resp: 708314

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.2	22.8
71	36.5	28.2	42.2

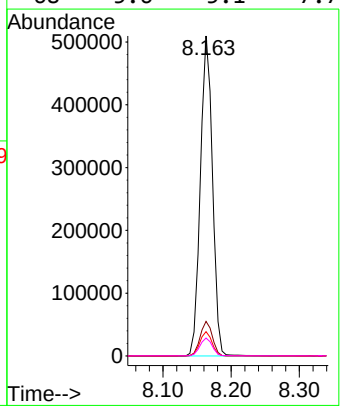


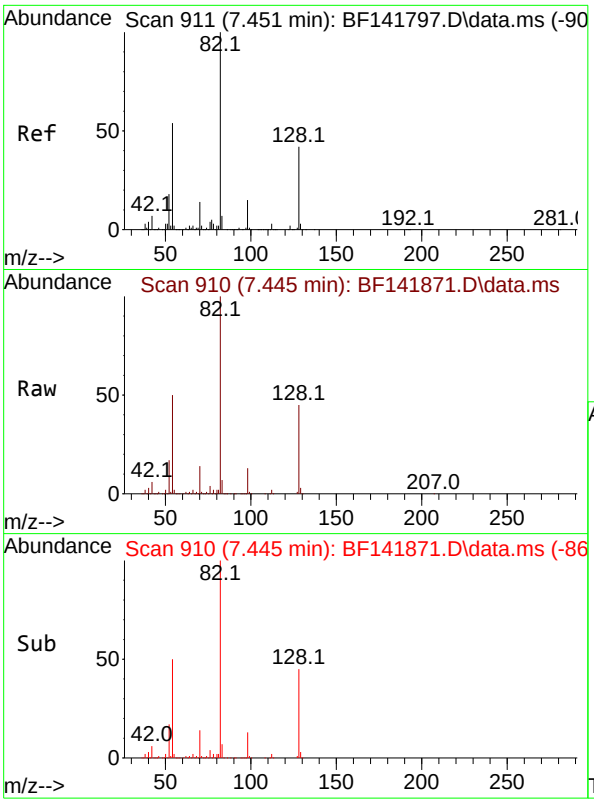


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:136 Resp: 631847

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	7.6	6.9	10.3
68	5.6	5.1	7.7



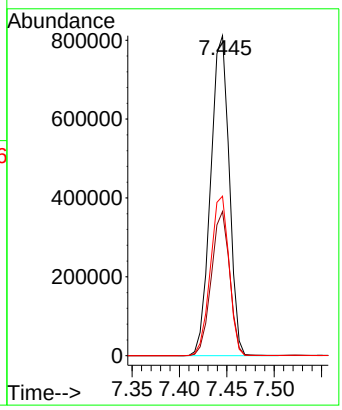


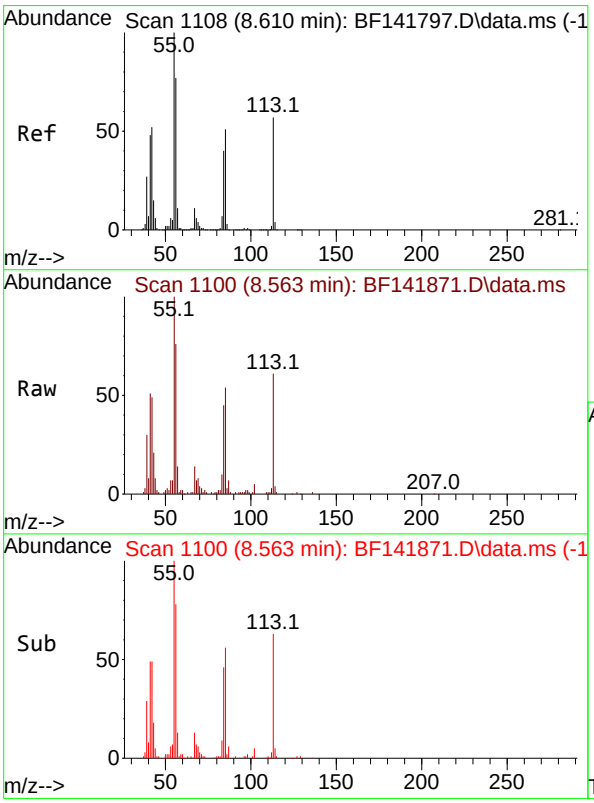
#23
Nitrobenzene-d5
Concen: 111.761 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion: 82 Resp: 1104750

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.5	50.3
54	49.8	42.7	64.1

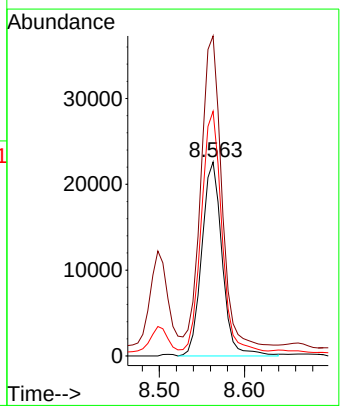


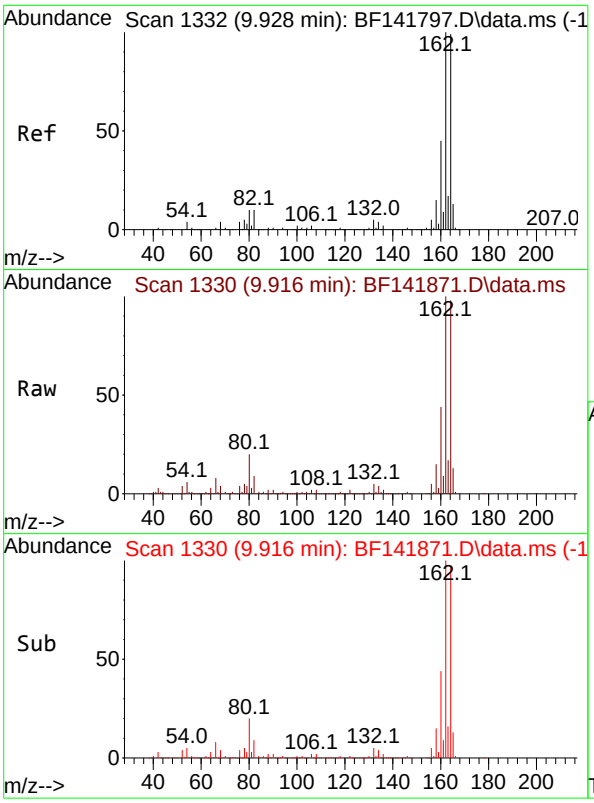


#35
Caprolactam
Concen: 13.492 ng
RT: 8.563 min Scan# 1100
Delta R.T. -0.047 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:113 Resp: 37378

Ion	Ratio	Lower	Upper
113	100		
55	165.0	155.6	195.6
56	126.2	114.6	154.6



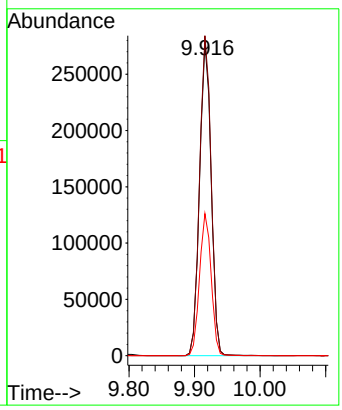


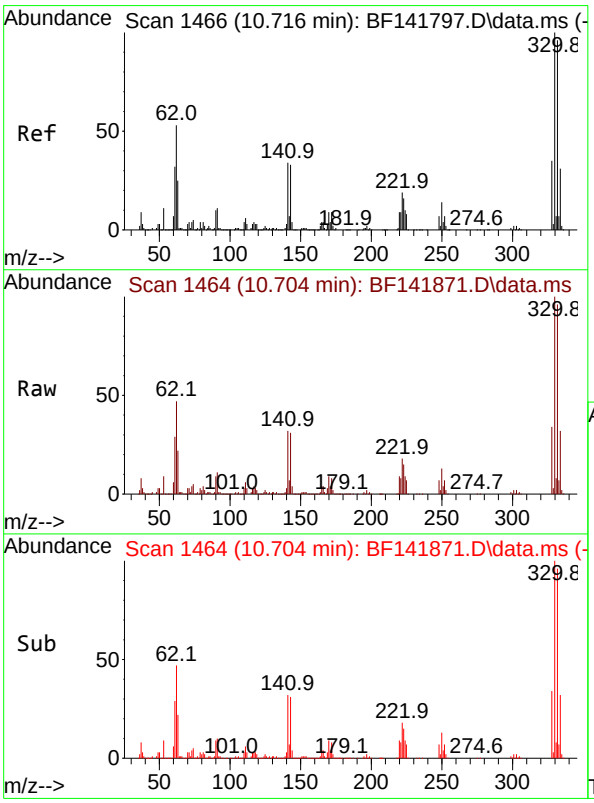
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:164 Resp: 343111

Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.6	120.8
160	45.5	36.3	54.5

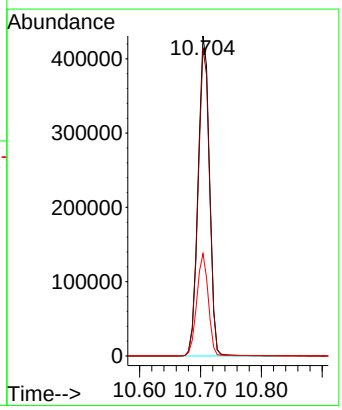


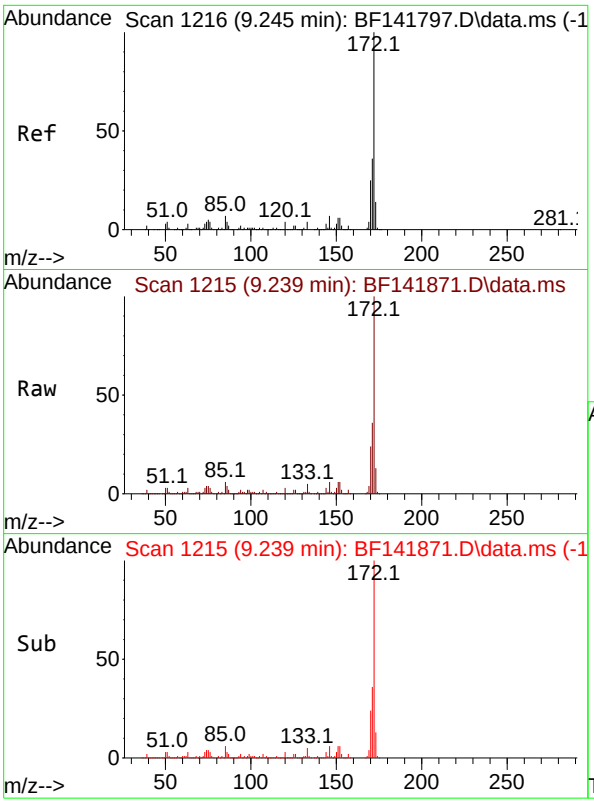


#42
2,4,6-Tribromophenol
Concen: 174.263 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:330 Resp: 561334

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	115.0
141	32.0	29.0	43.4



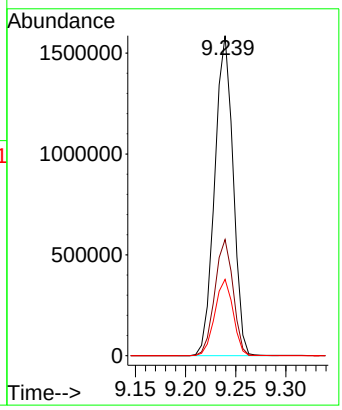


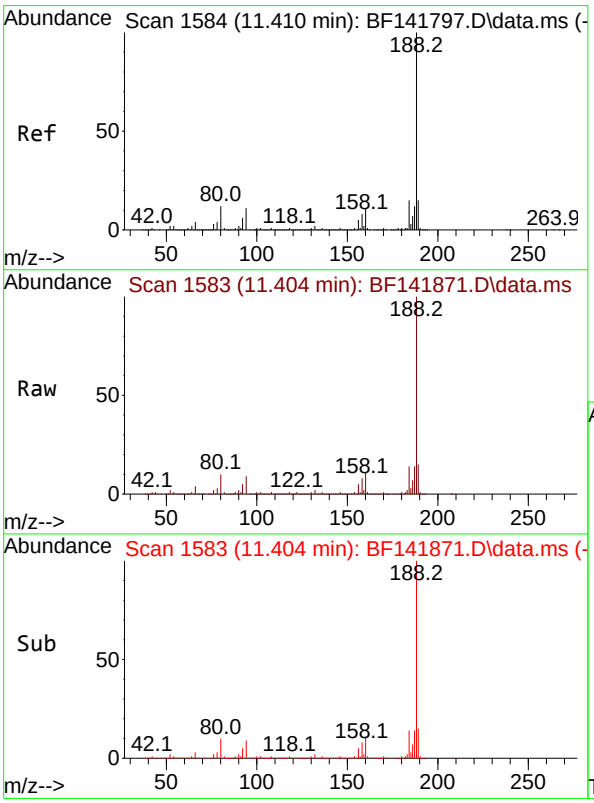
#45
2-Fluorobiphenyl
Concen: 94.479 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:172 Resp: 2021701

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	23.9	19.7	29.5

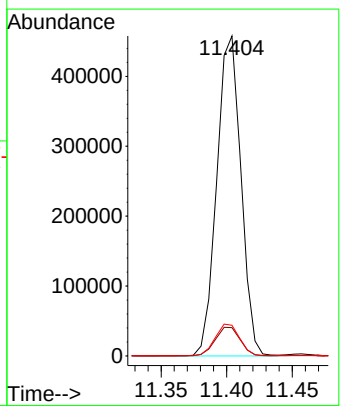


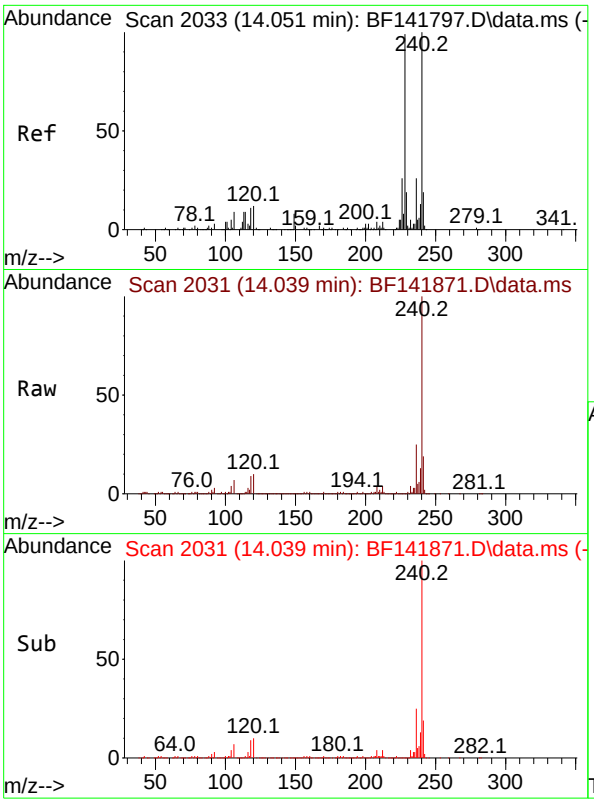


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:188 Resp: 586477

Ion	Ratio	Lower	Upper
188	100		
94	8.9	8.9	13.3#
80	9.6	9.7	14.5#



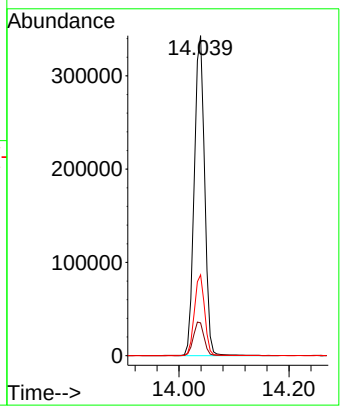


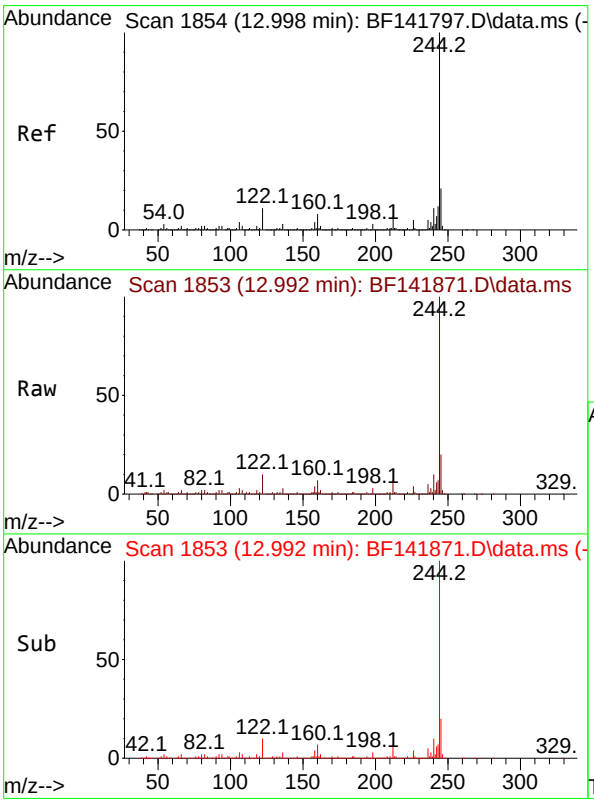
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:240 Resp: 448542

Ion	Ratio	Lower	Upper
240	100		
120	10.3	9.7	14.5
236	25.3	21.0	31.4

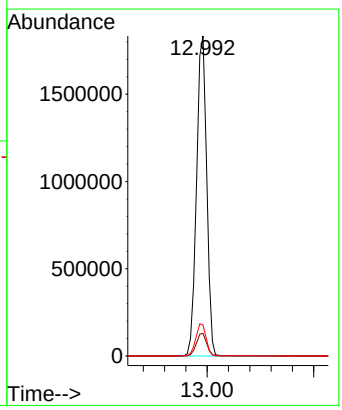


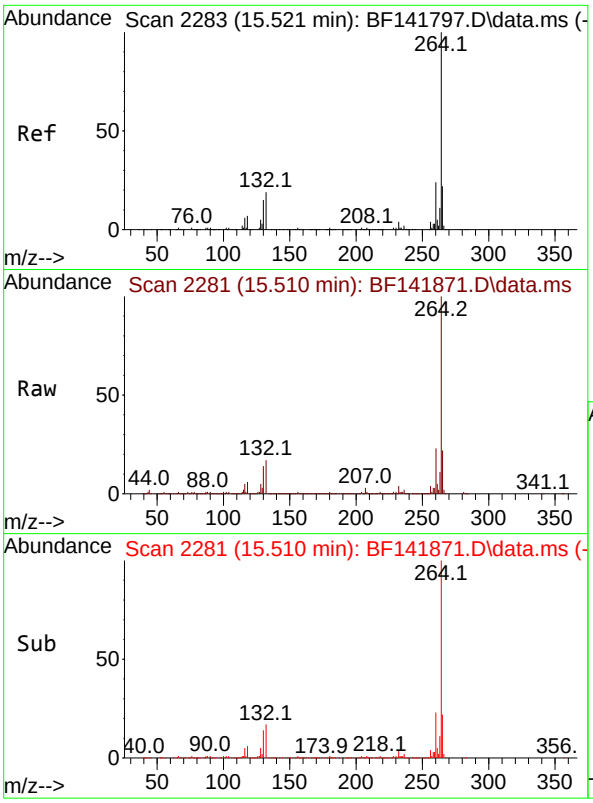


#79
Terphenyl-d14
Concen: 87.671 ng
RT: 12.992 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:244 Resp: 2430546

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.7	9.0	13.6



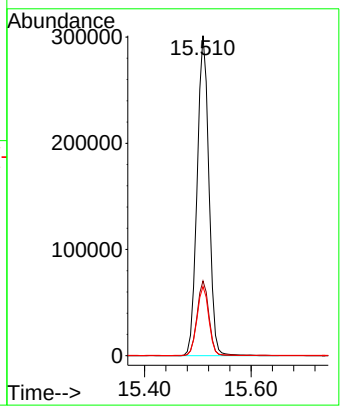


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Tgt Ion:264 Resp: 460671

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.9	28.3
265	21.6	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141871.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	3	12	19	rBV	3016352	4872593	60.84%	10.232%
2	5.104	503	512	521	rVB2	105976	179102	2.24%	0.376%
3	5.498	570	579	592	rBV	2225982	2938320	36.69%	6.170%
4	6.498	732	749	761	rBV	1600521	2279612	28.47%	4.787%
5	6.887	809	815	820	rBV	752922	960693	12.00%	2.017%
6	6.940	820	824	834	rVB	378499	474973	5.93%	0.997%
7	7.445	899	910	915	rBV	2382172	3259251	40.70%	6.844%
8	7.528	915	924	929	rVB	147960	258404	3.23%	0.543%
9	7.881	979	984	991	rVB2	81330	132060	1.65%	0.277%
10	8.063	1011	1015	1020	rBV	61750	81570	1.02%	0.171%
11	8.163	1027	1032	1040	rBV	1028838	1275634	15.93%	2.679%
12	8.498	1081	1089	1094	rBV2	166997	258256	3.22%	0.542%
13	8.563	1094	1100	1112	rVB	225054	390636	4.88%	0.820%
14	9.239	1209	1215	1220	rBV	4692181	6003064	74.96%	12.606%
15	9.669	1284	1288	1295	rBV	53551	90187	1.13%	0.189%
16	9.916	1325	1330	1335	rBV	1184540	1465251	18.30%	3.077%
17	10.322	1396	1399	1406	rVB2	166324	208266	2.60%	0.437%
18	10.628	1447	1451	1458	rVB	646631	818259	10.22%	1.718%
19	10.704	1458	1464	1469	rBV	3200175	4167822	52.04%	8.752%
20	10.939	1499	1504	1508	rBV	133446	167781	2.10%	0.352%
21	11.404	1577	1583	1589	rBV	1130756	1466662	18.31%	3.080%
22	11.510	1596	1601	1608	rBV	264890	386031	4.82%	0.811%
23	11.927	1667	1672	1686	rBV2	533555	818519	10.22%	1.719%
24	12.151	1707	1710	1714	rBV	67720	94576	1.18%	0.199%
25	12.427	1753	1757	1760	rBV	55443	82511	1.03%	0.173%
26	12.639	1789	1793	1799	rVB	137465	195766	2.44%	0.411%
27	12.710	1801	1805	1815	rBV	163085	233284	2.91%	0.490%
28	12.804	1815	1821	1826	rBV	2495070	3186351	39.79%	6.691%
29	12.992	1847	1853	1861	rVB2	4906573	8008284	100.00%	16.817%
30	13.880	2000	2004	2021	rVB	122824	195898	2.45%	0.411%
31	14.039	2025	2031	2041	rBV	912404	1228364	15.34%	2.580%
32	14.892	2172	2176	2186	rVB	98122	144783	1.81%	0.304%
33	15.510	2275	2281	2297	rVB	810124	1296892	16.19%	2.723%

Sum of corrected areas: 47619655

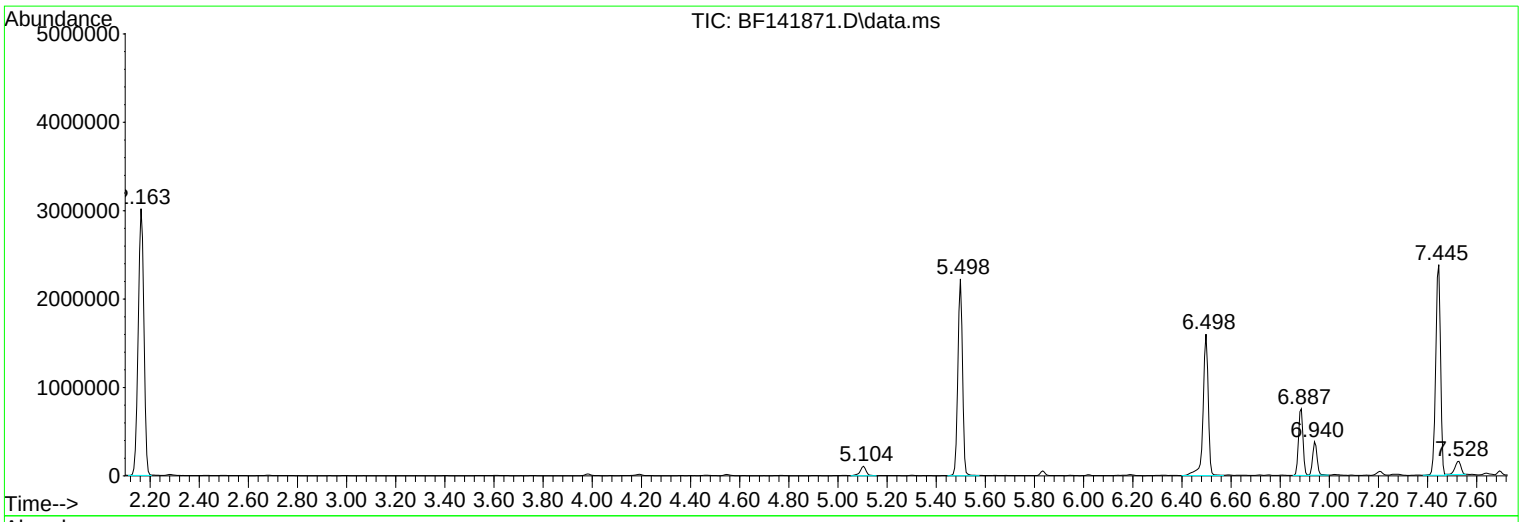
Sample Results: **BF141871.D**

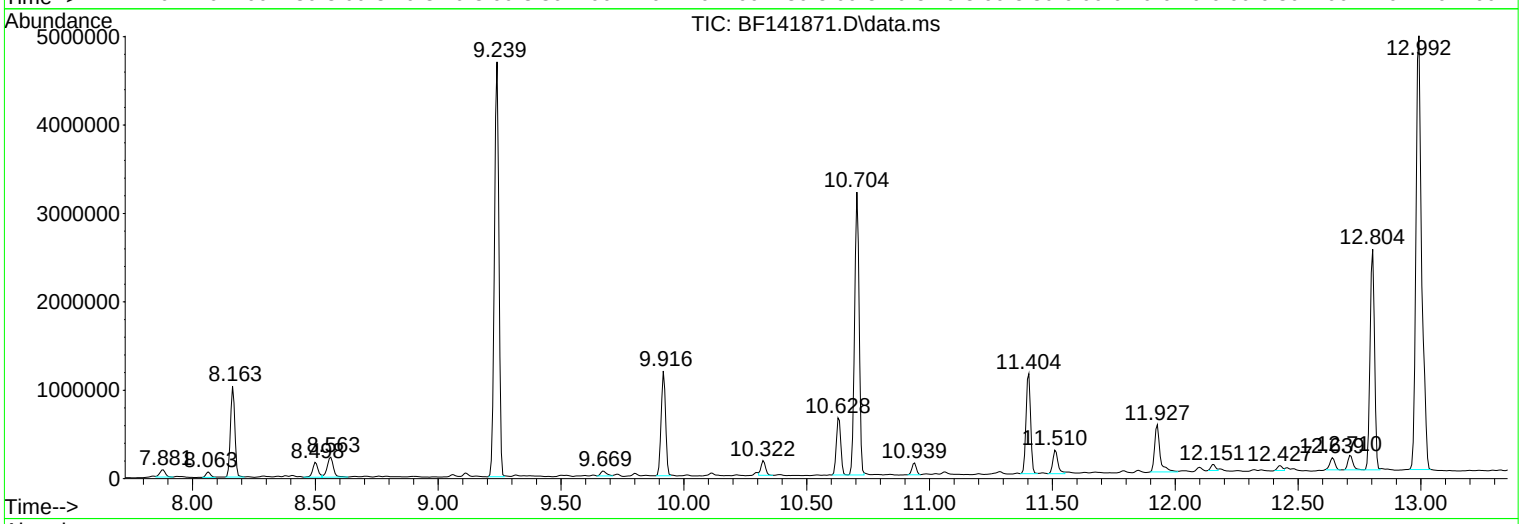
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

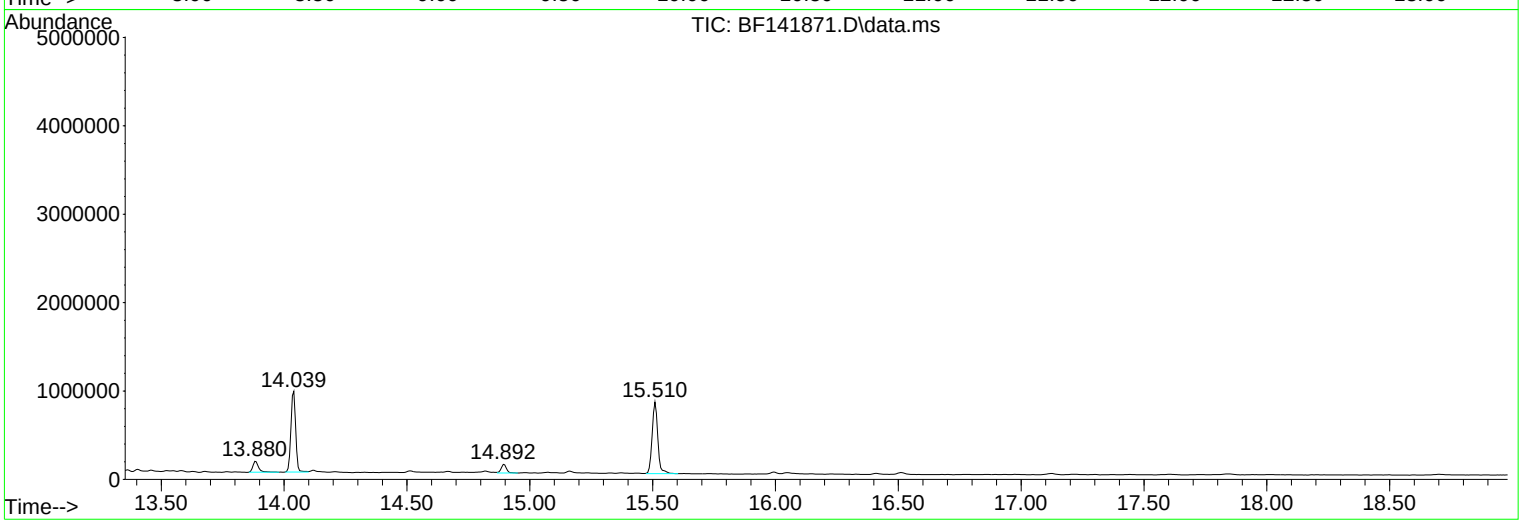
Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

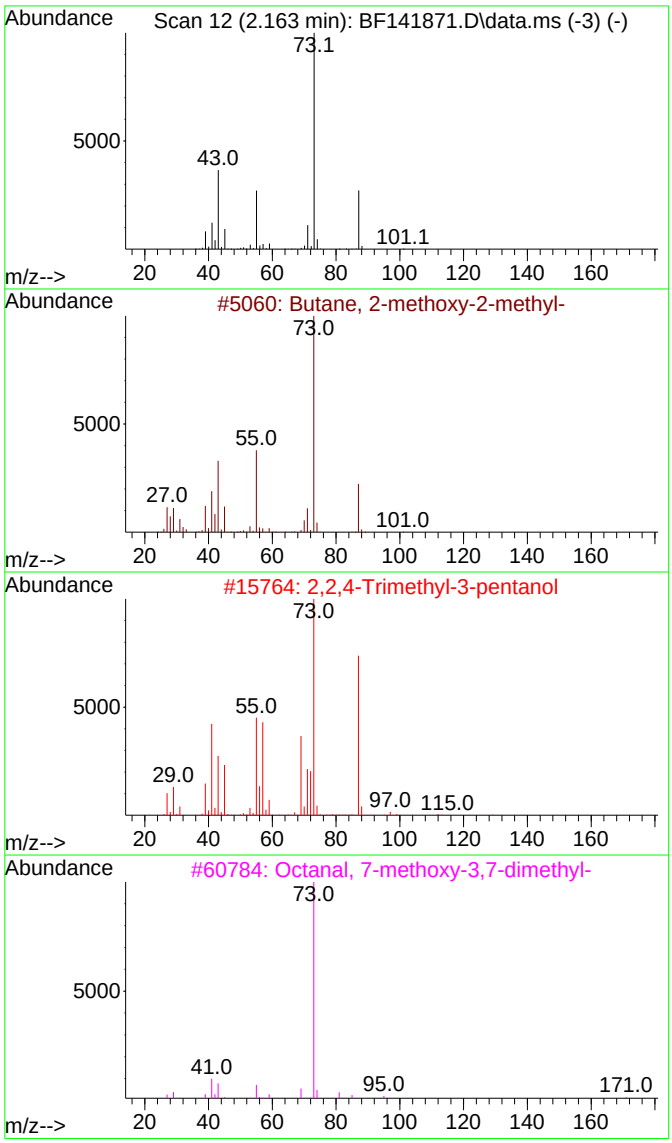
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

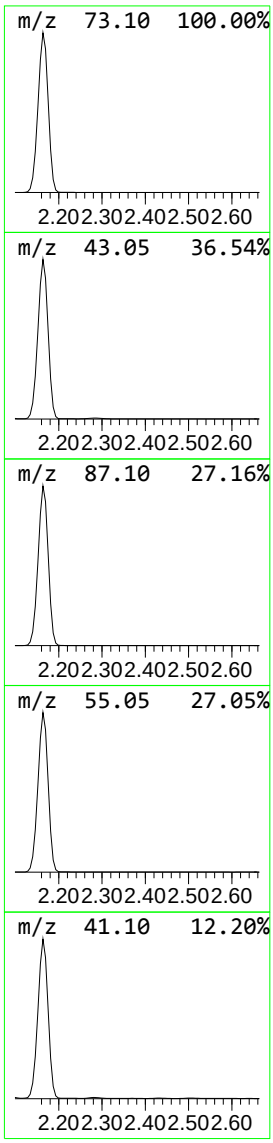
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	101.44 ng	4872590	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

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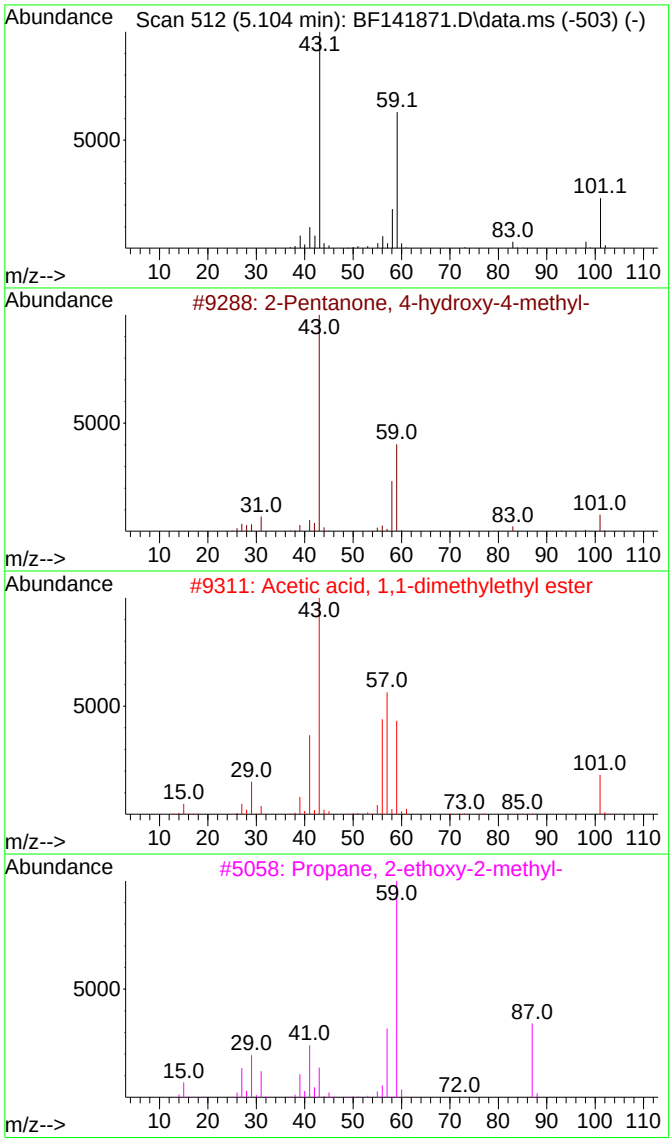
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

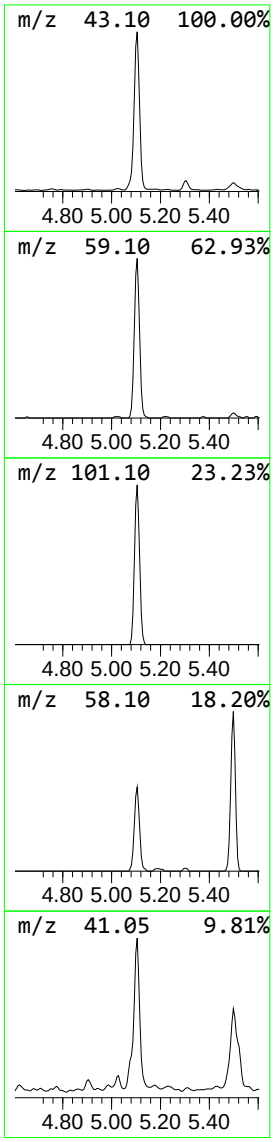
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	3.73 ng	179102	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	17
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Acetone	58	C3H6O	000067-64-1	9





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

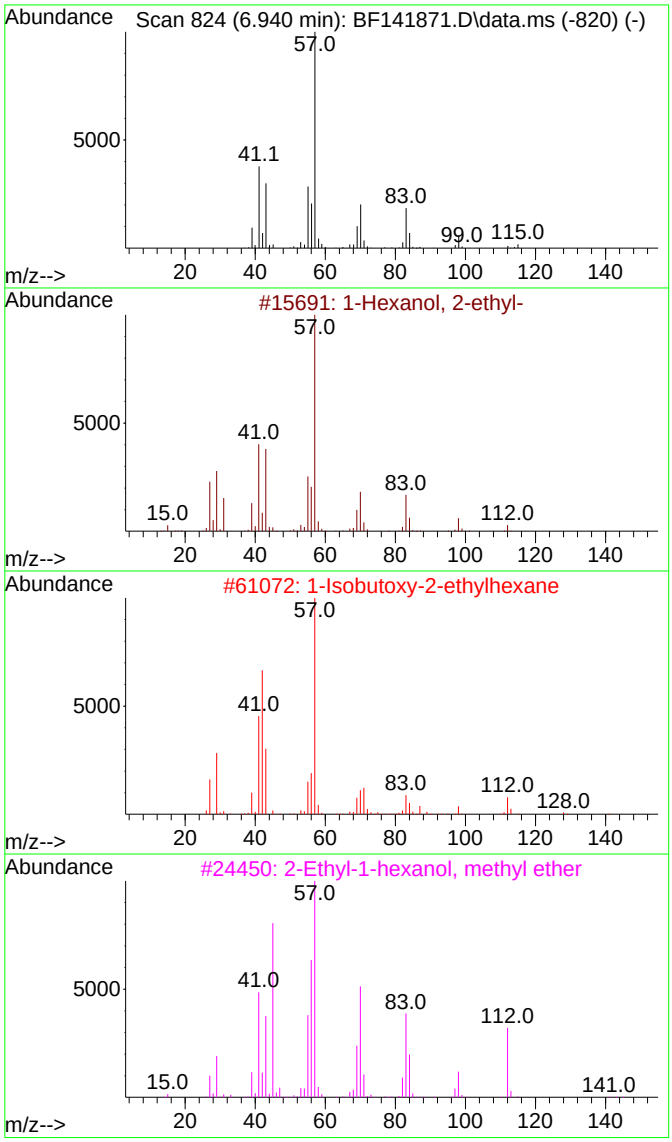
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

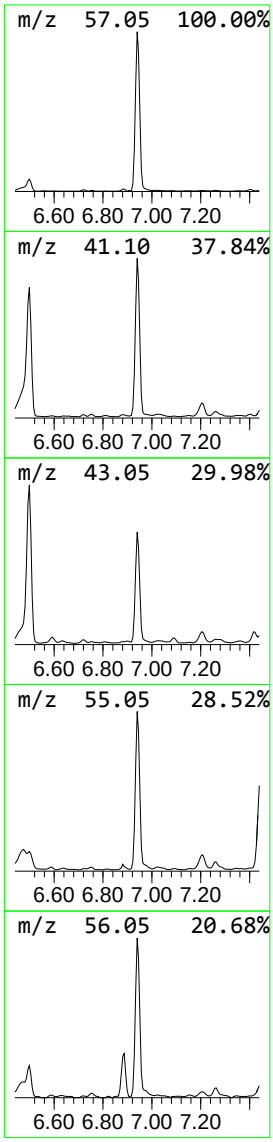
****

Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.940	9.89 ng	474973	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	64
3	2-Ethyl-1-hexanol, methyl ether	144	C9H20O	1000365-10-2	53
4	Pentadecafluorooctanoic acid, 2-...	526	C16H17F15O2	1000406-80-9	42
5	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	42





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

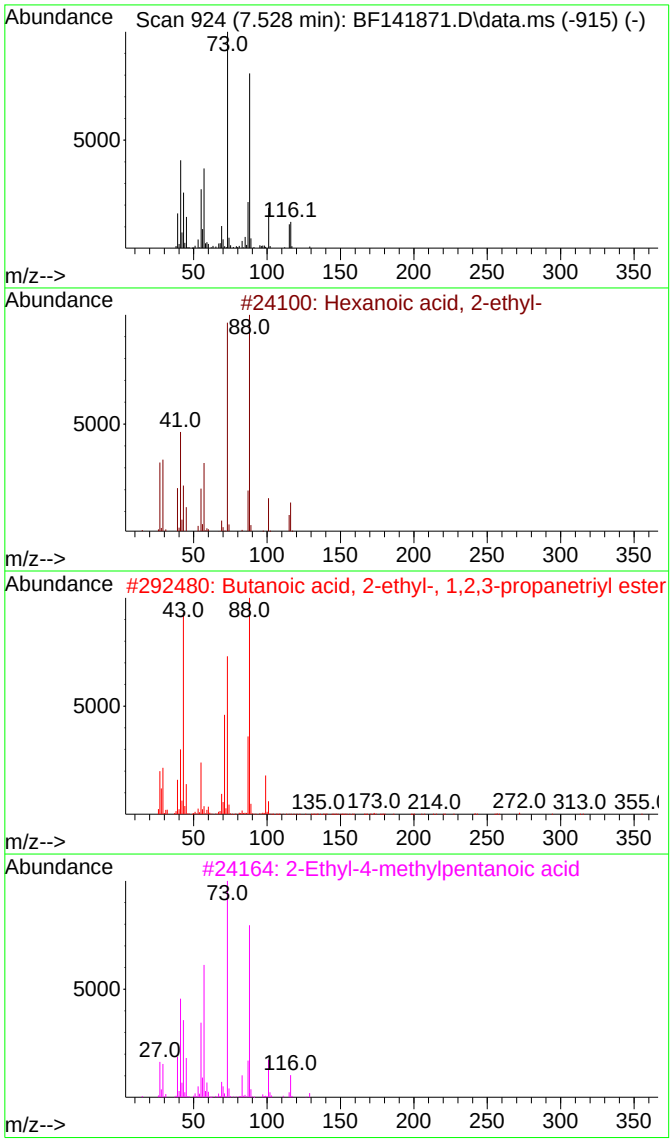
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

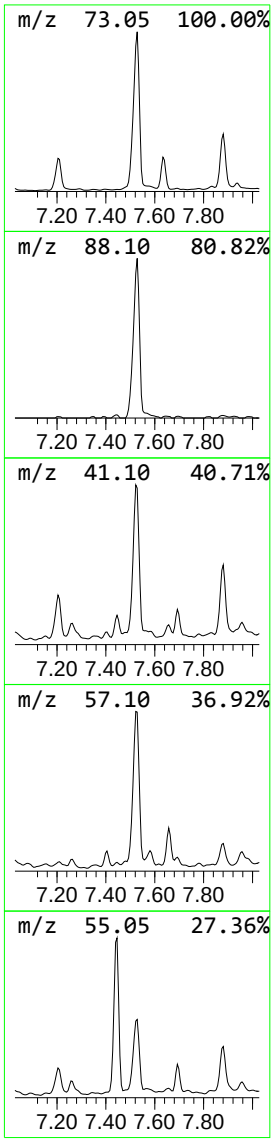
****

Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.528	4.05 ng	258404	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	59
3	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	56
4	Heptanoic acid, ethyl ester	158	C9H18O2	000106-30-9	45
5	1,4-Dioxane	88	C4H8O2	000123-91-1	43





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Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

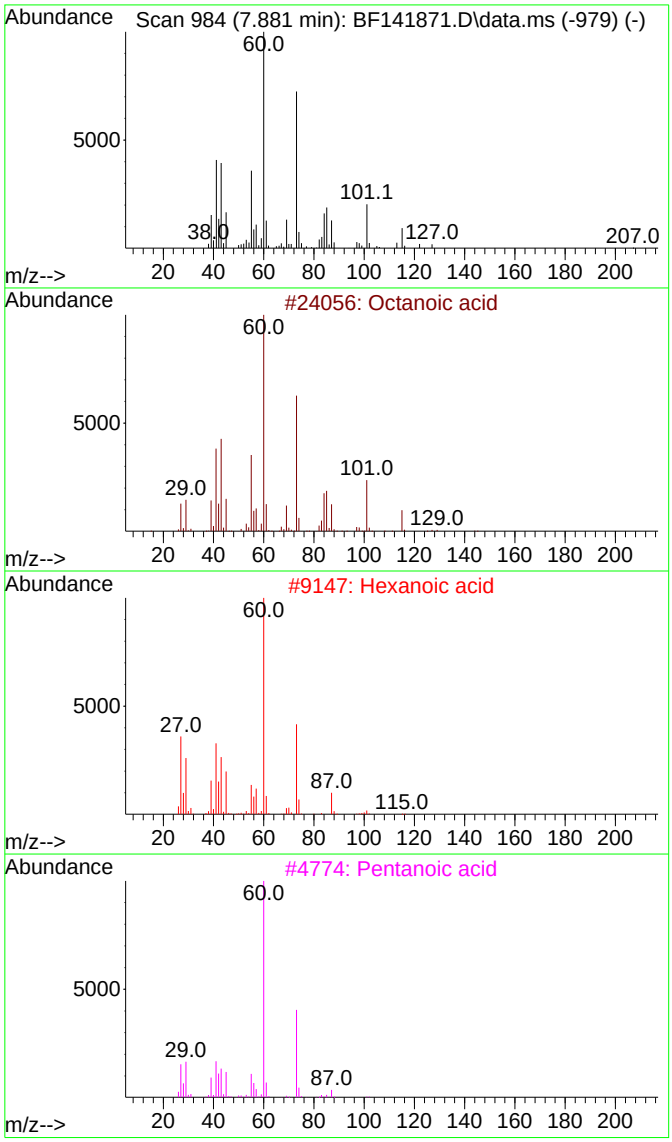
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

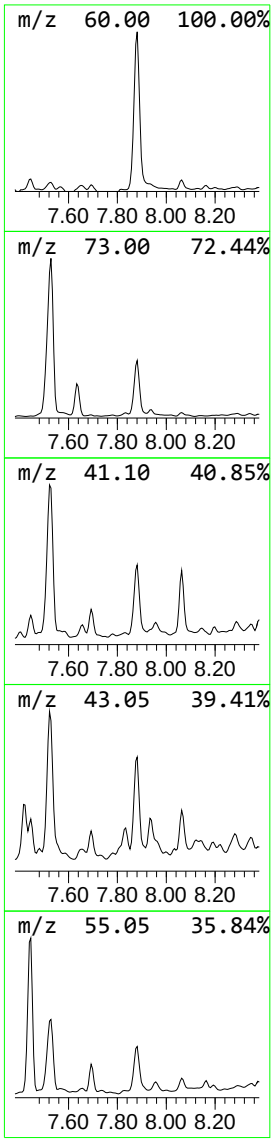
****

Peak Number 5 Octanoic acid Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.881	2.07 ng	132060	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanoic acid	144	C8H16O2	000124-07-2	91
2	Hexanoic acid	116	C6H12O2	000142-62-1	53
3	Pentanoic acid	102	C5H10O2	000109-52-4	50
4	Butanoic acid, 3-methyl-	102	C5H10O2	000503-74-2	50
5	Heptanoic acid	130	C7H14O2	000111-14-8	40





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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

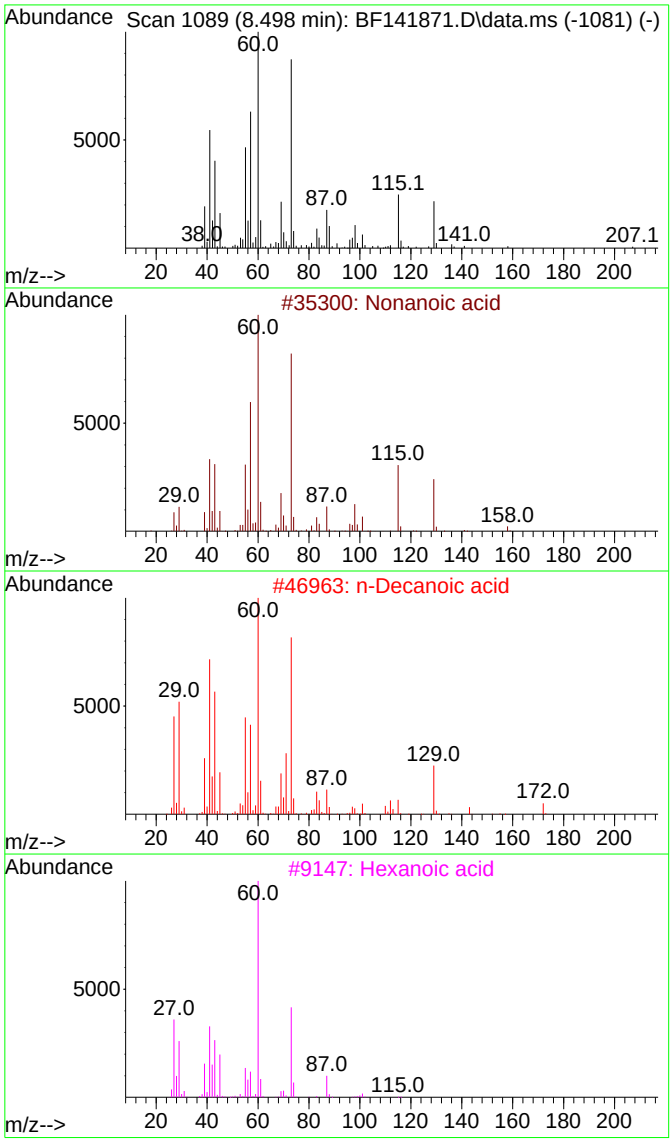
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

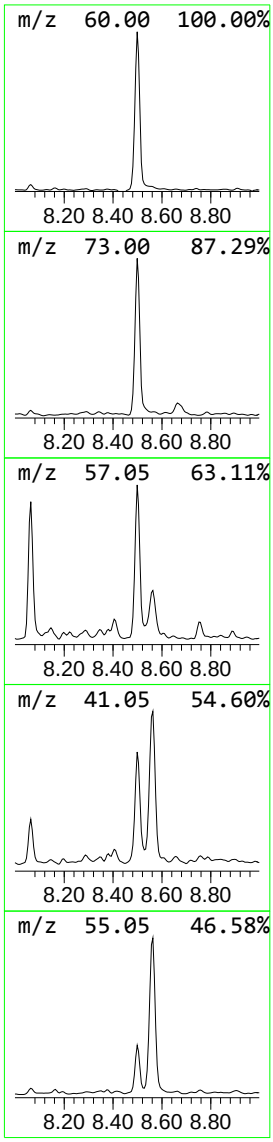
****

Peak Number 6 Nonanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.498	4.05 ng	258256	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanoic acid	158	C9H18O2	000112-05-0	94
2	n-Decanoic acid	172	C10H20O2	000334-48-5	59
3	Hexanoic acid	116	C6H12O2	000142-62-1	50
4	Octanoic acid	144	C8H16O2	000124-07-2	47
5	Pentanoic acid, 3-methyl-	116	C6H12O2	000105-43-1	43





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ClientSampleId :
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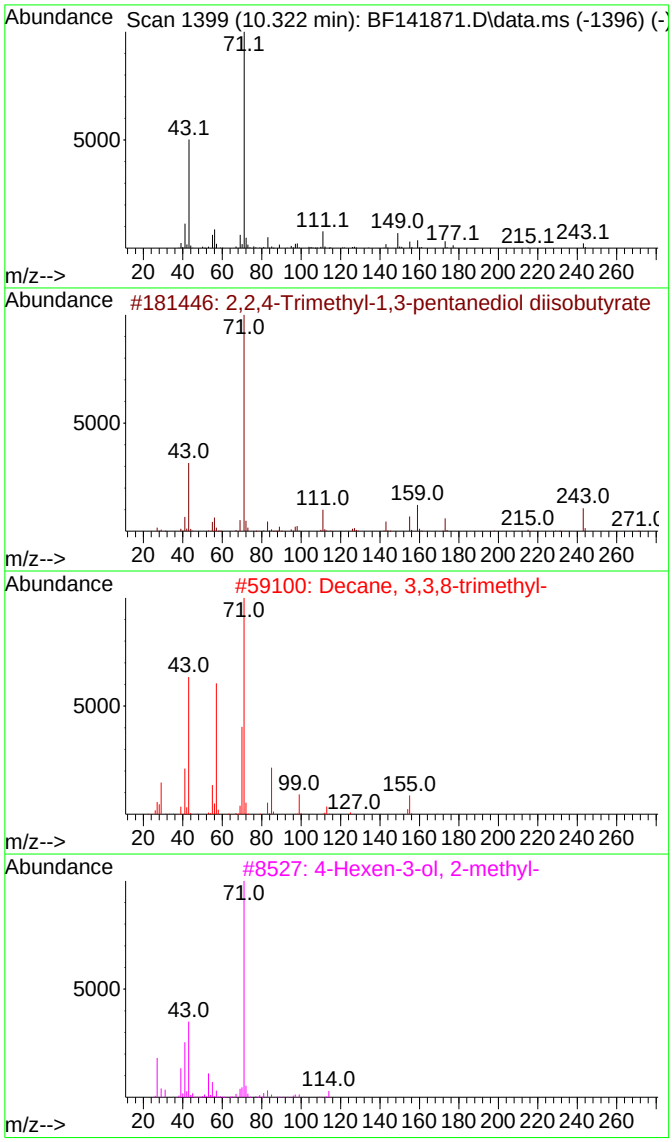
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

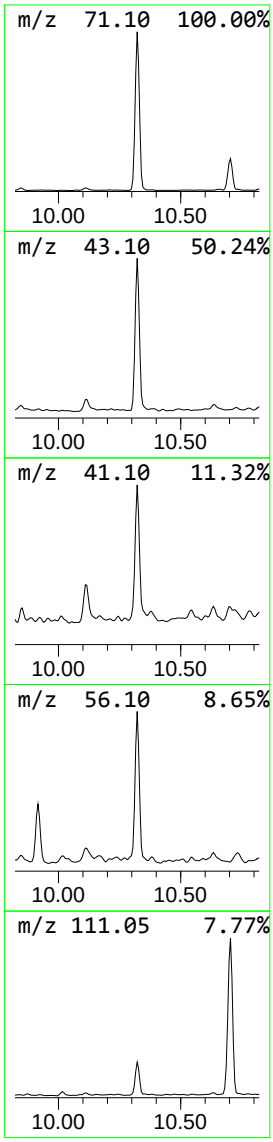
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.322	2.84 ng	208266	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	78
2	Decane, 3,3,8-trimethyl-	184	C13H28	062338-16-3	45
3	4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4	Cyclopropanemethanol, .alpha.-bu...	128	C8H16O	004379-16-2	45
5	Succinic acid, 2,2-dichloroethyl...	298	C11H16Cl2O5	1000390-71-6	45





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

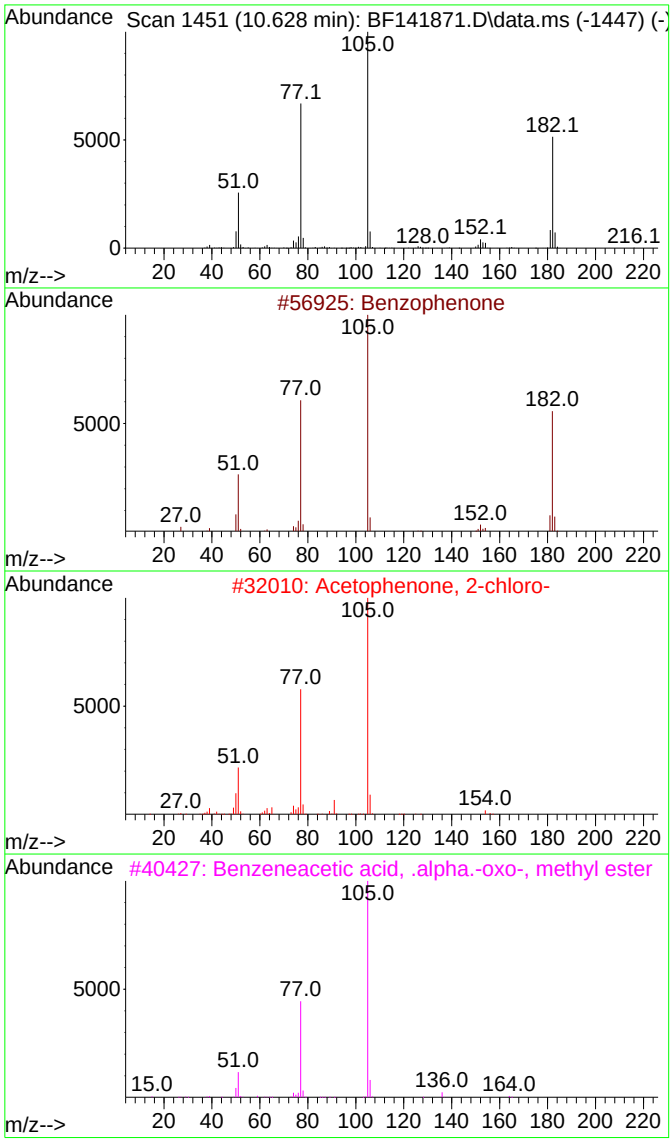
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

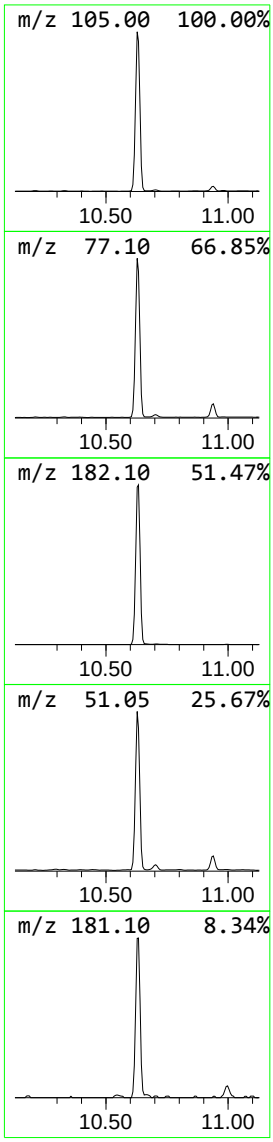
****

Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	11.17 ng	818259	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47





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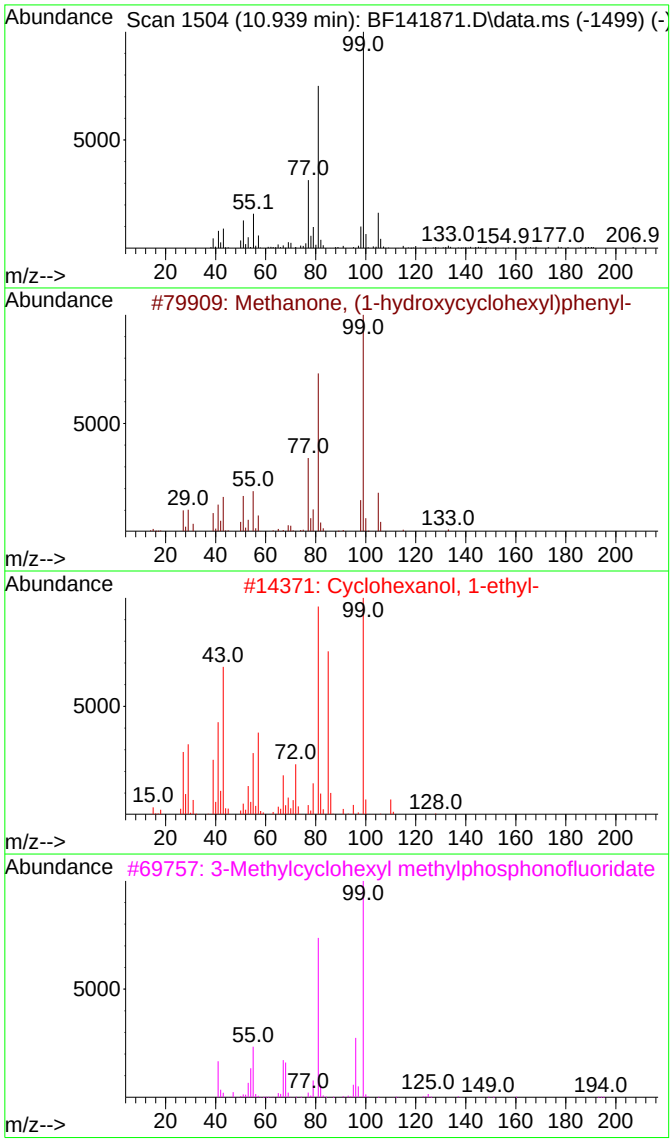
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

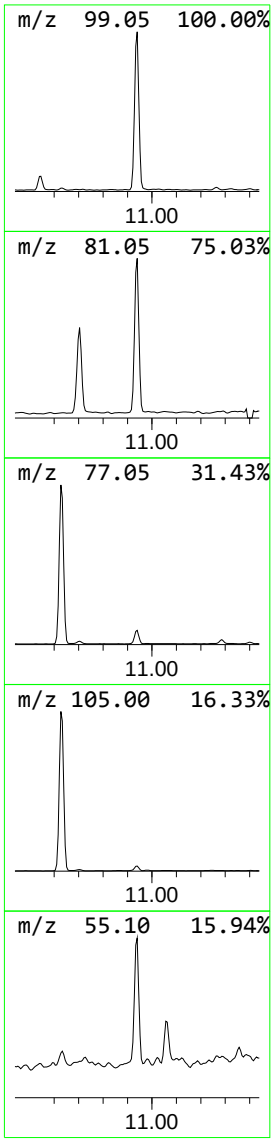
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Methanone, (1-hydroxycycloh... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.29 ng	167781	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	83
2	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	45
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	42
4	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	16
5	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16





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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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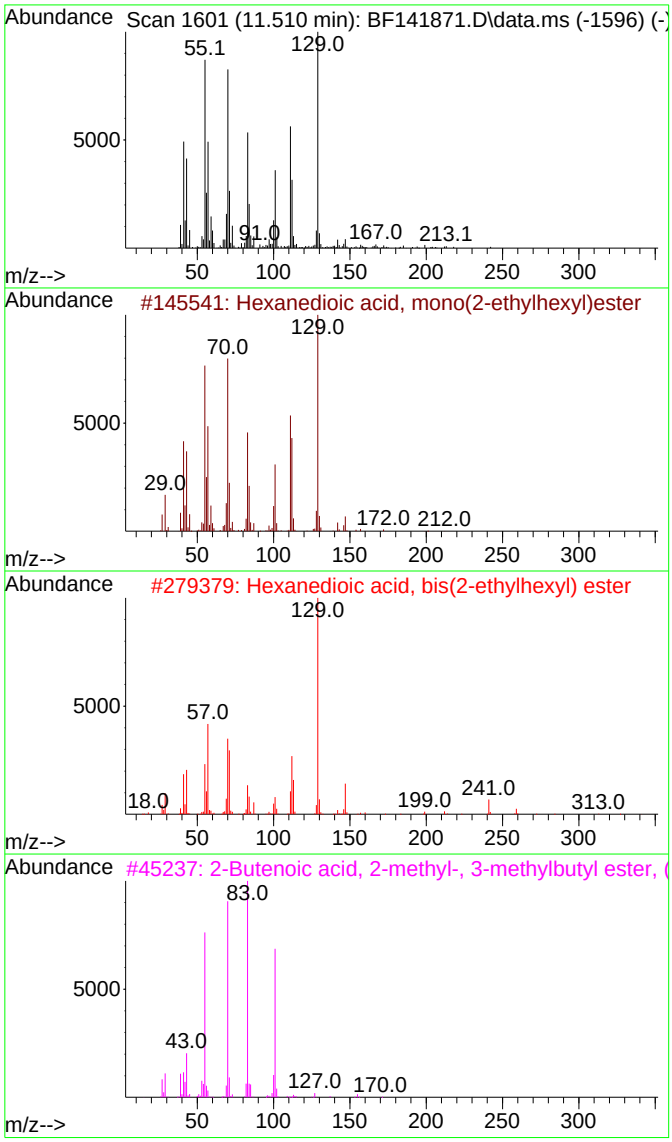
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

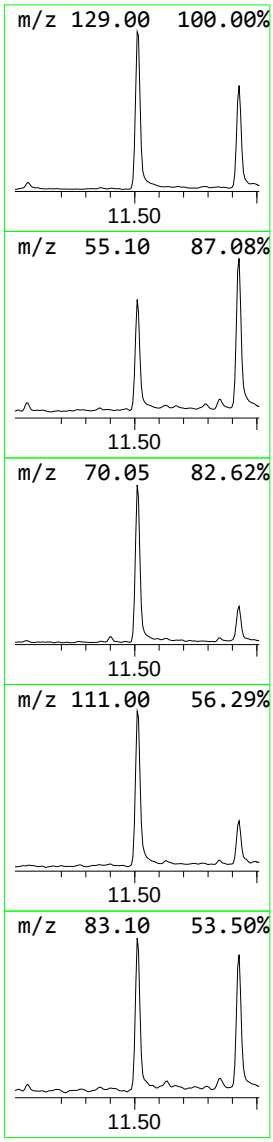
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Hexanedioic acid, mono(2-et... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.510	5.26 ng	386031	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, mono(2-ethylhe...	258	C14H26O4	004337-65-9	86
2	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	38
3	2-Butenoic acid, 2-methyl-, 3-me...	170	C10H18O2	041519-18-0	35
4	4-Undecene, 9-methyl-, (Z)-	168	C12H24	074630-56-1	27
5	Cyclobutanecarboxylic acid, dode...	268	C17H32O2	1000280-40-8	22





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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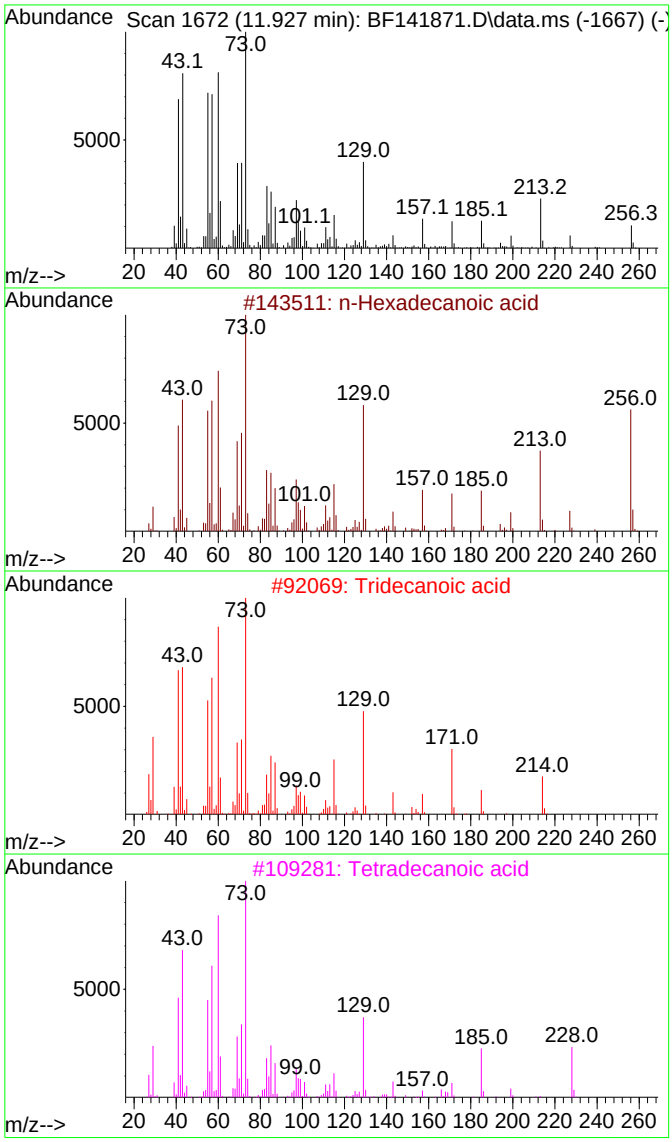
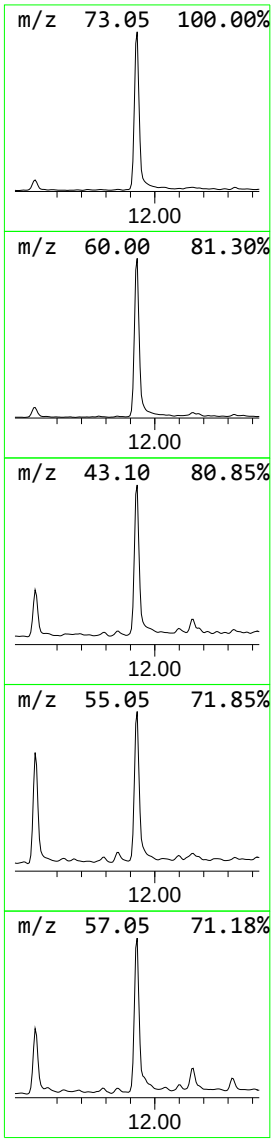
Peak Number 11 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	11.16 ng	818519	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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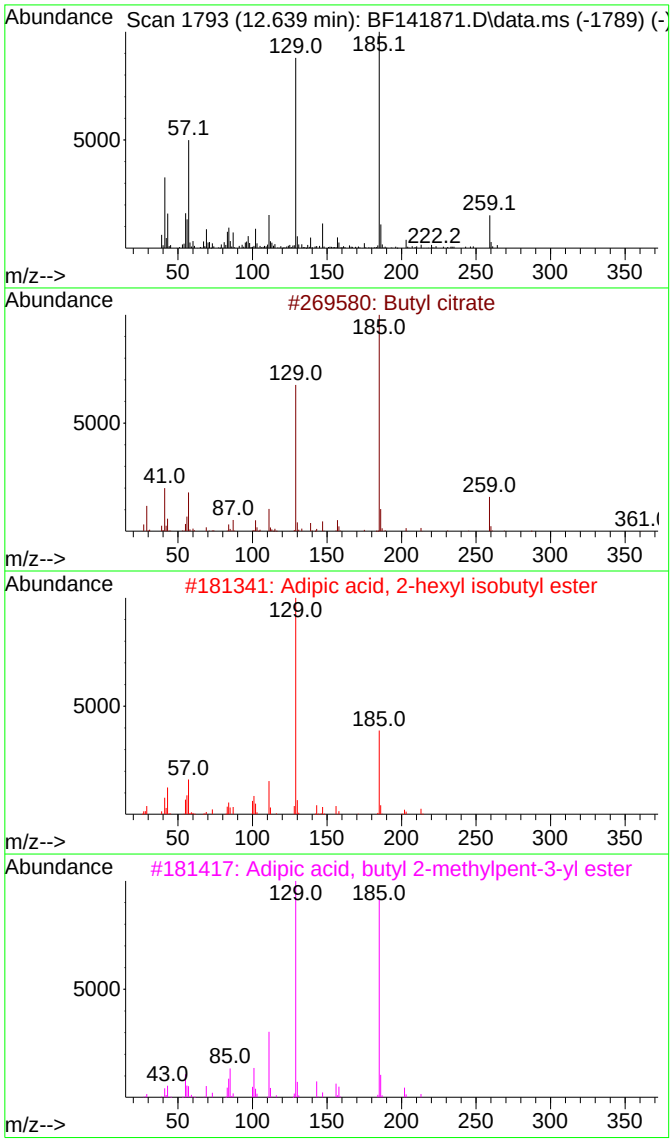
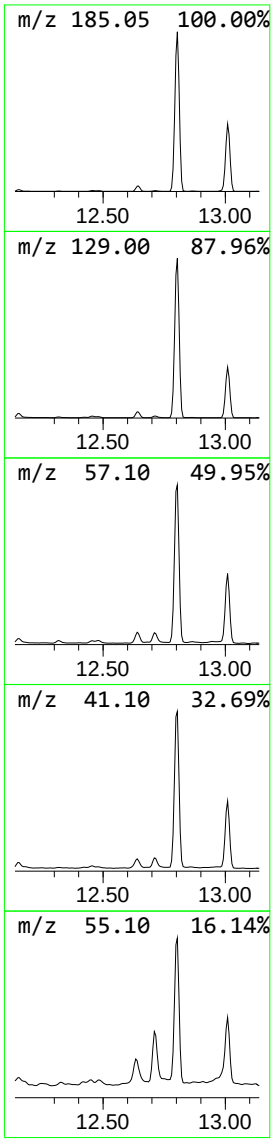
Peak Number 12 Butyl citrate Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.67 ng	195766	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	87
2	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	72
3	Adipic acid, butyl 2-methylpent-...	286	C16H30O4	1010353-55-8	56
4	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	56
5	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

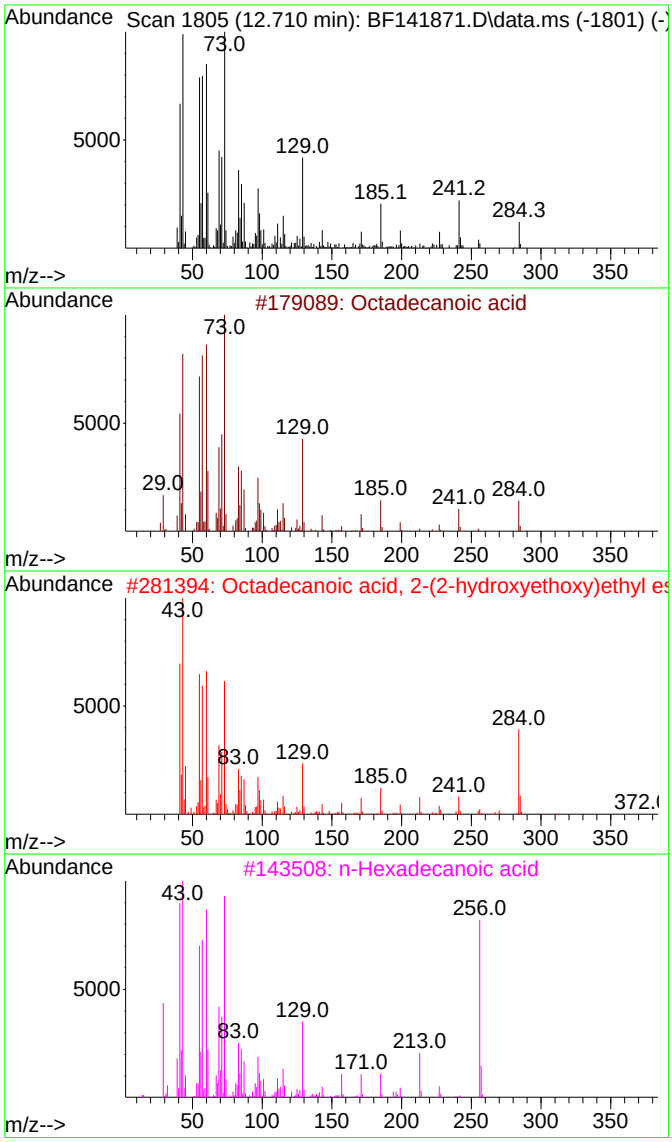
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

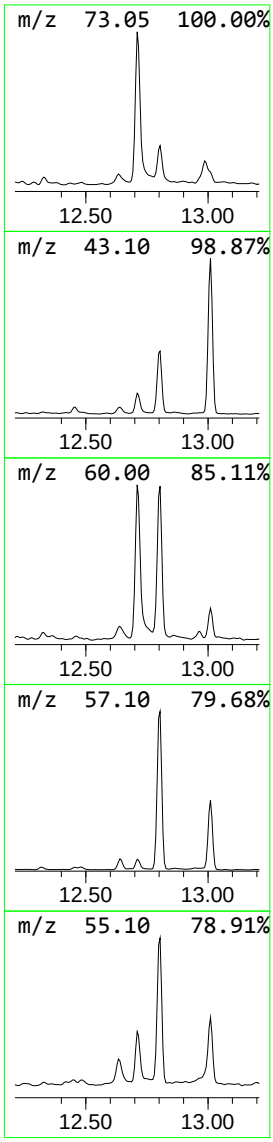
****

Peak Number 13 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	3.18 ng	233284	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	91
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

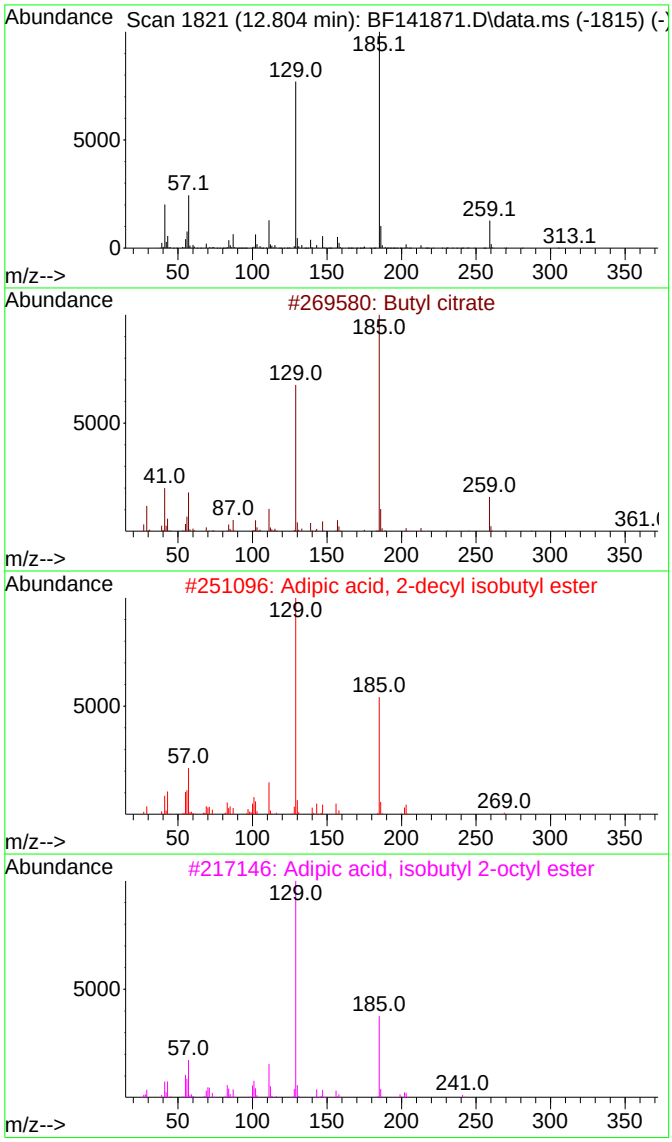
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

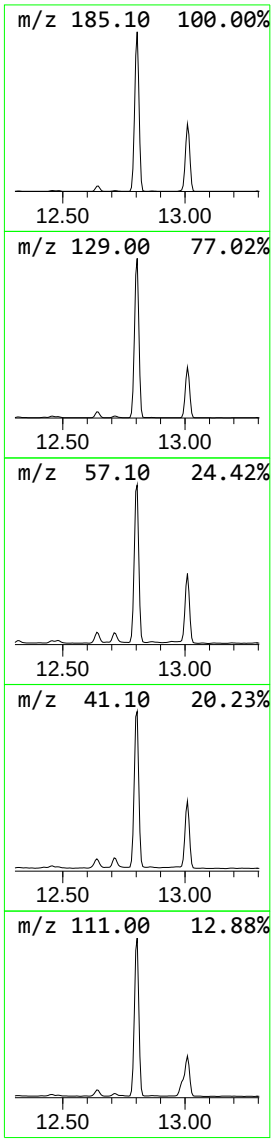
****

Peak Number 14 Adipic acid, 2-decyl isobut... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.804	51.88 ng	3186350	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	78
3	Adipic acid, isobutyl 2-octyl ester	314	C18H34O4	1000324-44-5	64
4	Adipic acid, 3,3-dimethylbut-2-y...	286	C16H30O4	1000353-66-7	56
5	Adipic acid, 2-ethylcyclohexyl i...	312	C18H32O4	1000324-22-5	56





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

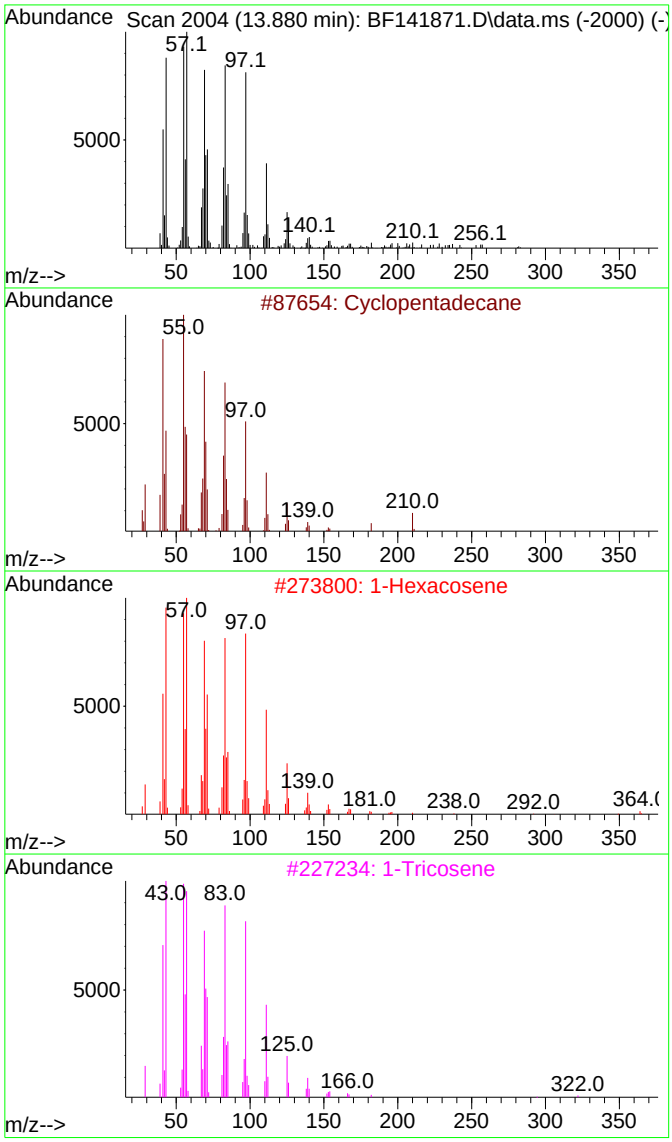
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

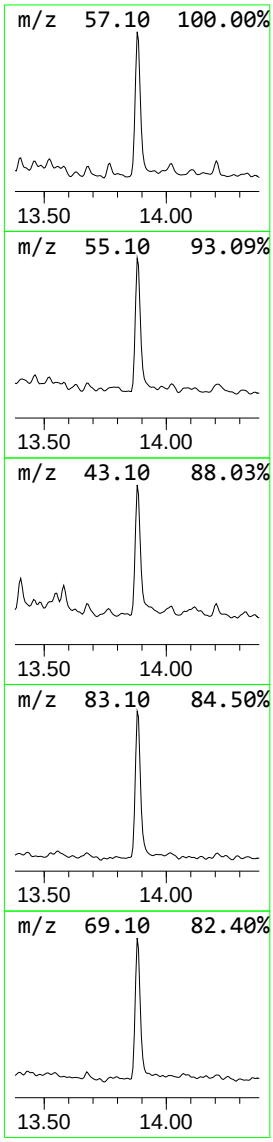
****

Peak Number 15 Cyclopentadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.19 ng	195898	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentadecane	210	C15H30	000295-48-7	96
2	1-Hexacosene	364	C26H52	018835-33-1	94
3	1-Tricosene	322	C23H46	018835-32-0	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

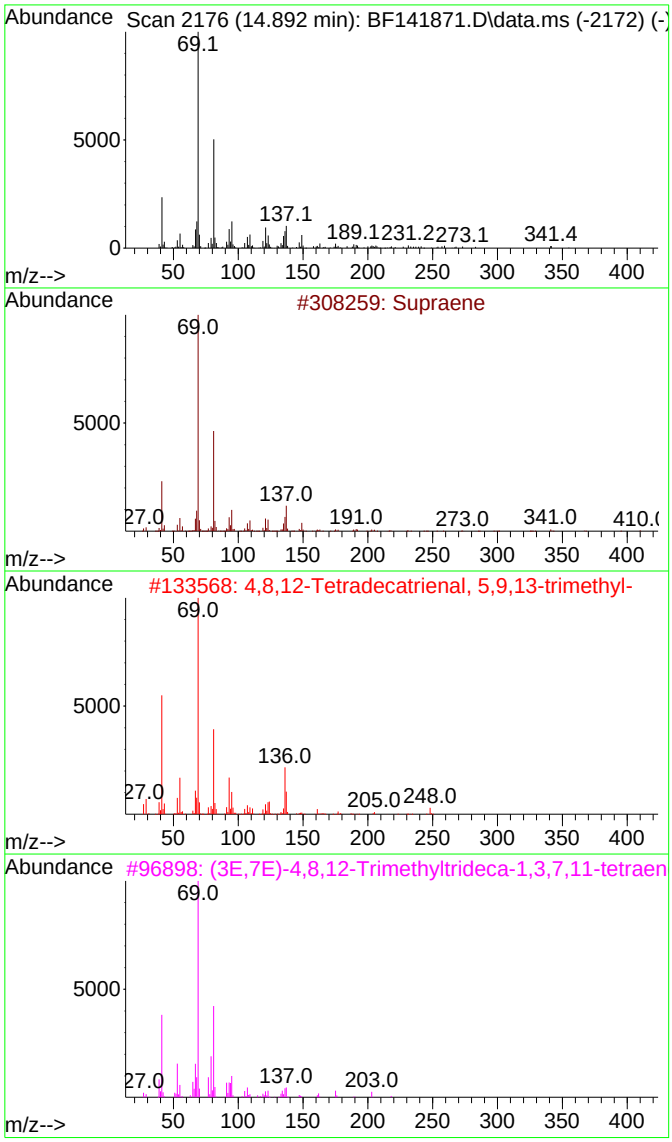
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

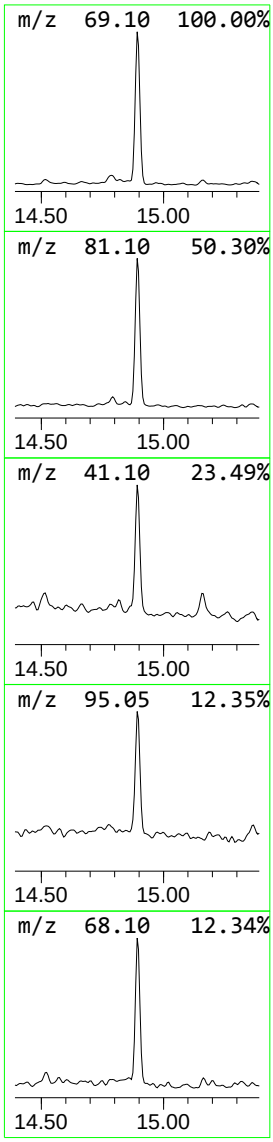
****

Peak Number 16 Supraene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.23 ng	144783	Perylene-d12	15.510

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64
3	(3E,7E)-4,8,12-Trimethyltrideca-...	218	C16H26	062235-06-7	64
4	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	64
5	Cyclopentane, bromo-	148	C5H9Br	000137-43-9	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.163	101.4	ng	4872590	1	6.887	960693	20.0
2-Pentanone, 4-...	5.104	3.7	ng	179102	1	6.887	960693	20.0
1-Hexanol, 2-et...	6.940	9.9	ng	474973	1	6.887	960693	20.0
Hexanoic acid, ...	7.528	4.0	ng	258404	2	8.163	1275630	20.0
Octanoic acid	7.881	2.1	ng	132060	2	8.163	1275630	20.0
Nonanoic acid	8.498	4.0	ng	258256	2	8.163	1275630	20.0
2,2,4-Trimethyl...	10.322	2.8	ng	208266	3	9.916	1465250	20.0
Benzophenone	10.628	11.2	ng	818259	3	9.916	1465250	20.0
Methanone, (1-h...	10.939	2.3	ng	167781	4	11.404	1466660	20.0
Hexanedioic aci...	11.510	5.3	ng	386031	4	11.404	1466660	20.0
n-Hexadecanoic ...	11.928	11.2	ng	818519	4	11.404	1466660	20.0
Butyl citrate	12.639	2.7	ng	195766	4	11.404	1466660	20.0
Octadecanoic acid	12.710	3.2	ng	233284	4	11.404	1466660	20.0
Adipic acid, 2-...	12.804	51.9	ng	3186350	5	14.039	1228360	20.0
Cyclopentadecane	13.880	3.2	ng	195898	5	14.039	1228360	20.0
Supraene	14.892	2.2	ng	144783	6	15.510	1296890	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

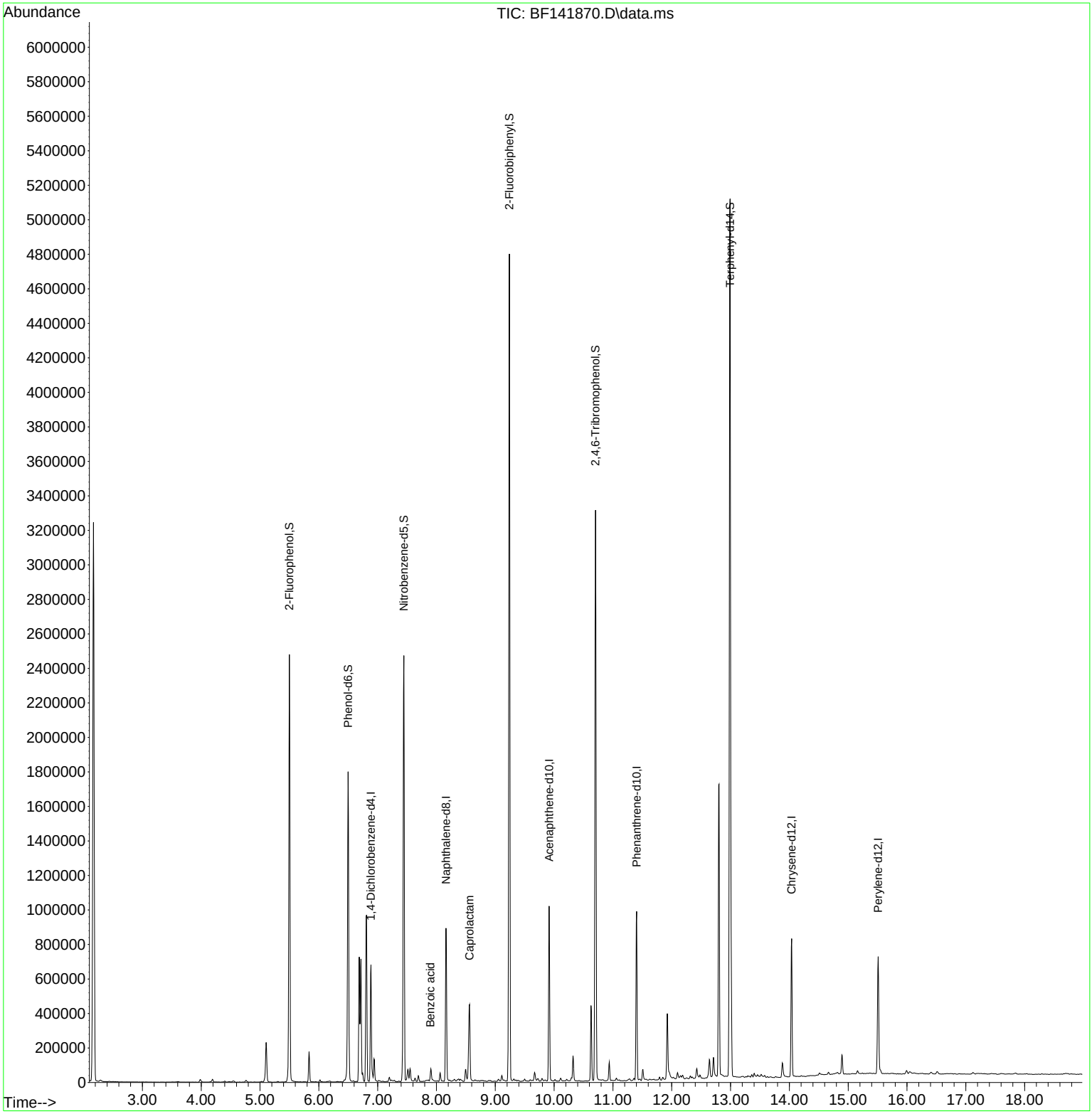
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140013	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	541385	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	290279	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	493097	20.000	ng	0.00
76) Chrysene-d12	14.039	240	386724	20.000	ng	-0.01
86) Perylene-d12	15.509	264	390388	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	916932	104.585	ng	0.00
7) Phenol-d6	6.498	99	832242	72.931	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1138168	134.381	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	573671	210.507	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2059546	113.765	ng	0.00
79) Terphenyl-d14	12.992	244	2570569	107.544	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	7.898	122	8588	8.983	ng	95
35) Caprolactam	8.563	113	79297	33.405	ng	# 86

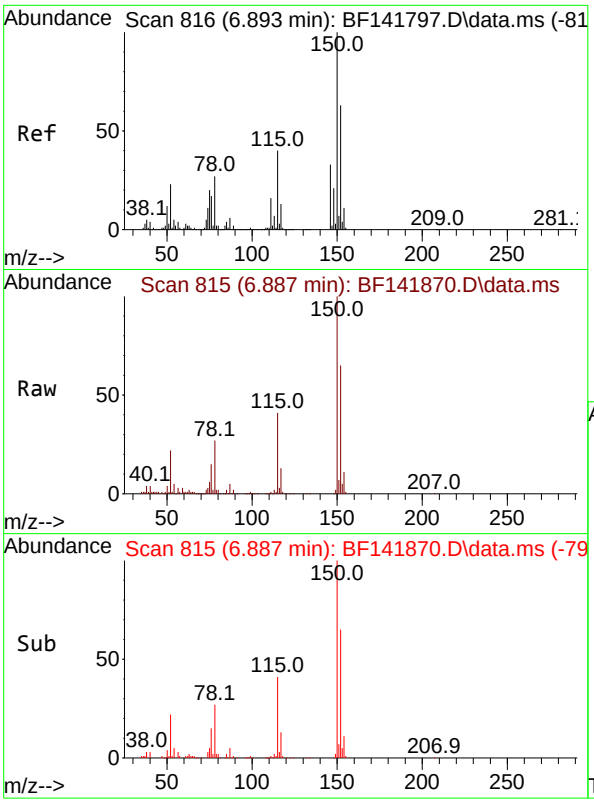
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



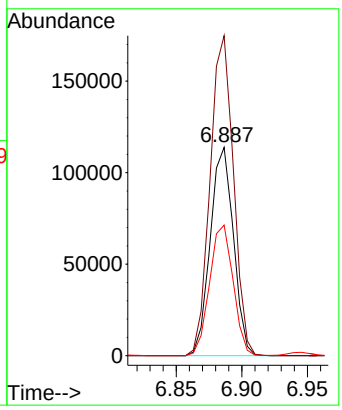


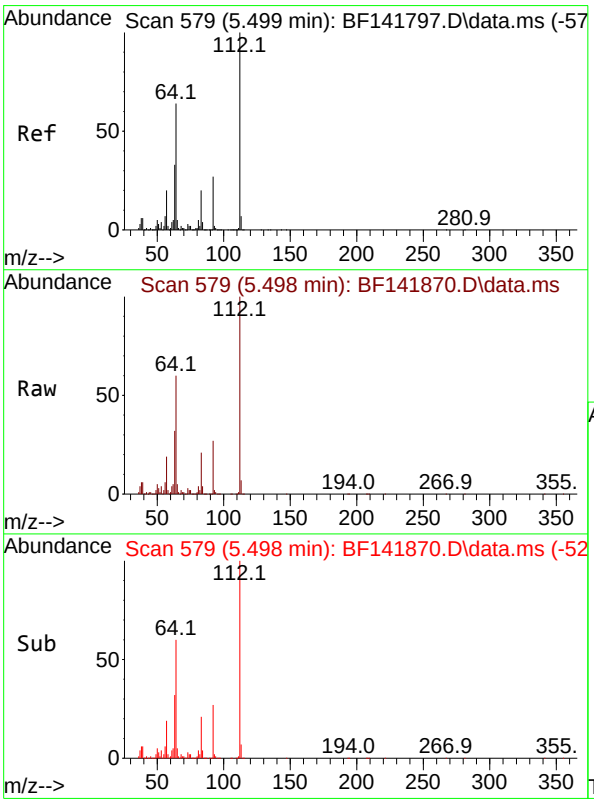
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:152 Resp: 140013

Ion	Ratio	Lower	Upper
152	100		
150	153.6	127.5	191.3
115	62.7	51.4	77.2

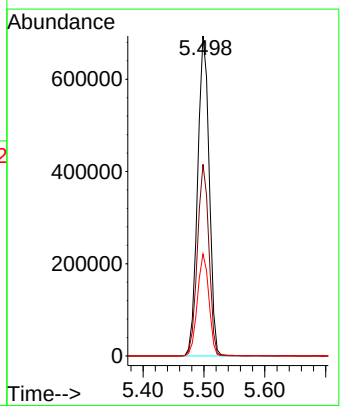


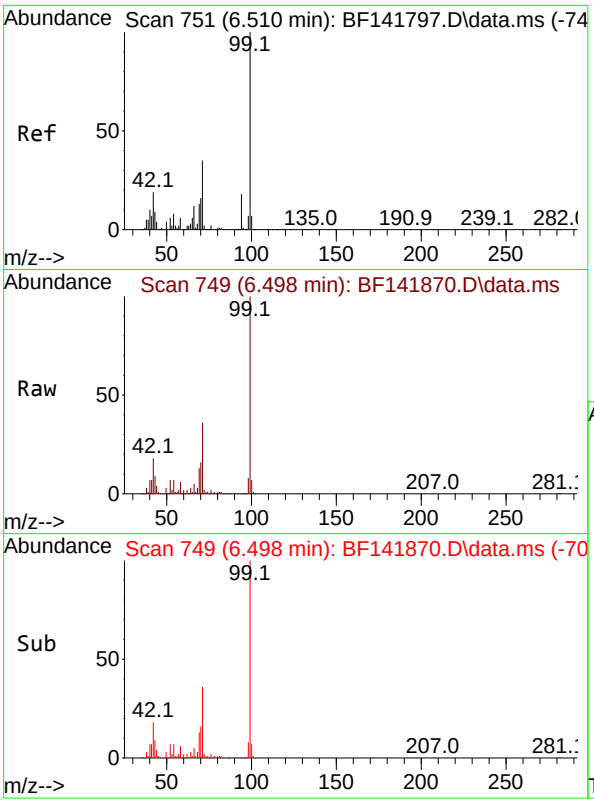


#5
2-Fluorophenol
Concen: 104.585 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:112 Resp: 916932

Ion	Ratio	Lower	Upper
112	100		
64	59.9	51.3	76.9
63	31.8	26.2	39.4



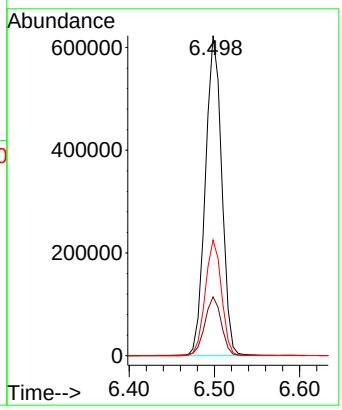


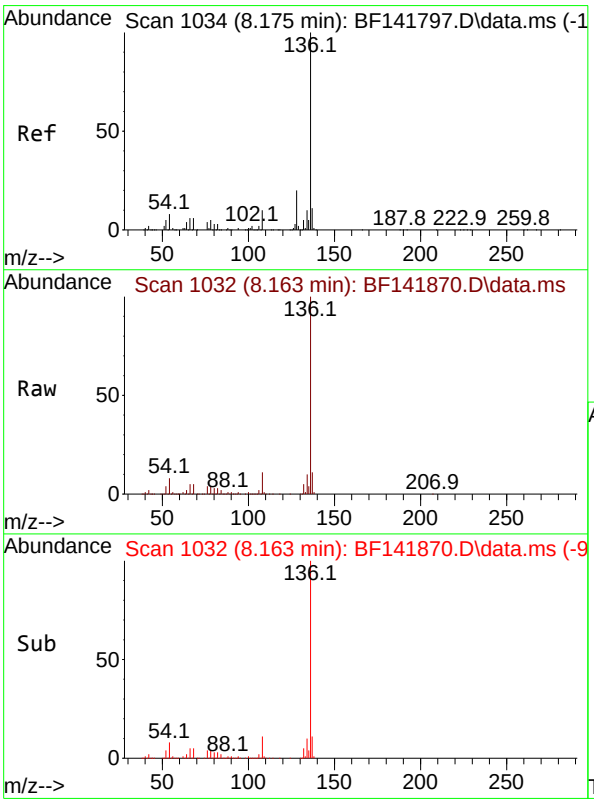
#7
Phenol-d6
Concen: 72.931 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion: 99 Resp: 832242

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.2	22.8
71	36.2	28.2	42.2

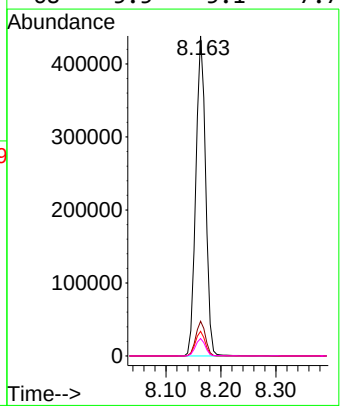


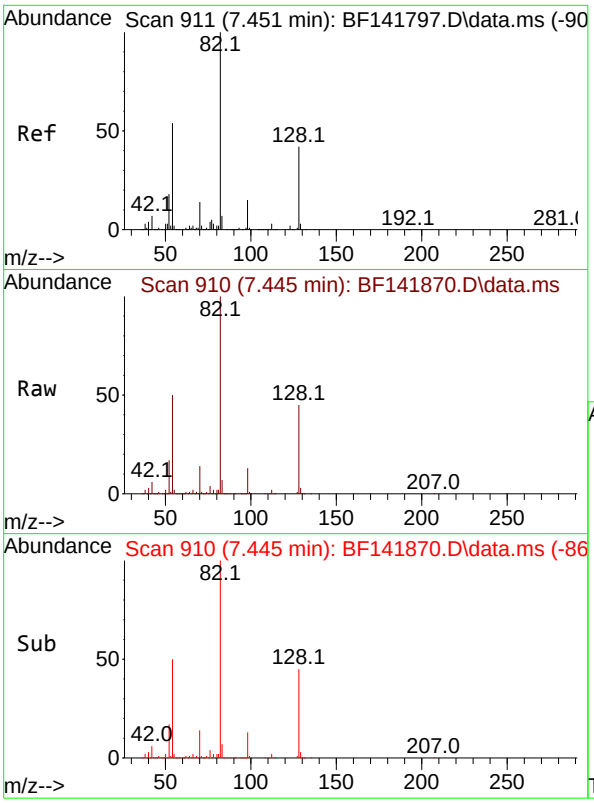


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:136 Resp: 541385

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.7	6.9	10.3
68	5.5	5.1	7.7



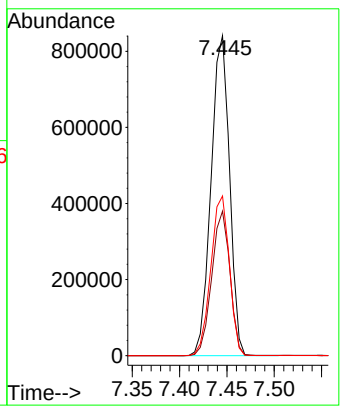


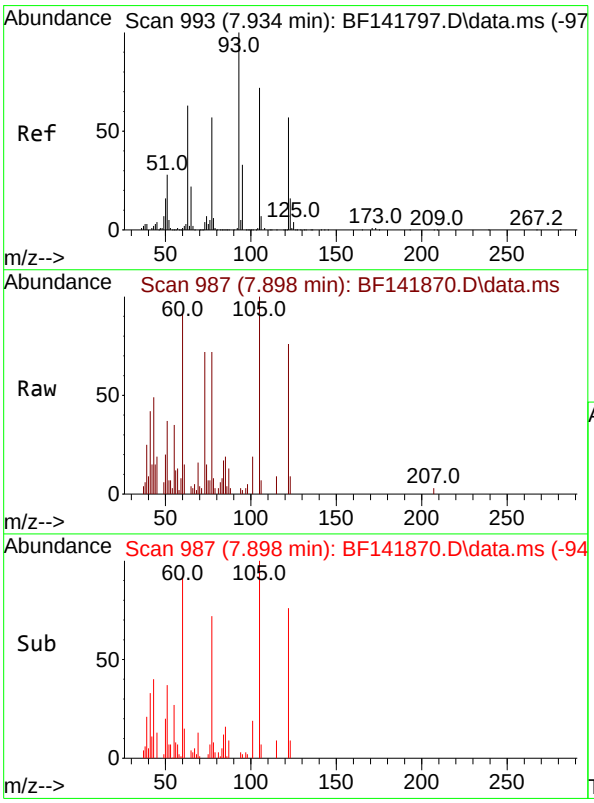
#23
Nitrobenzene-d5
Concen: 134.381 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion: 82 Resp: 1138168

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.5	50.3
54	49.9	42.7	64.1

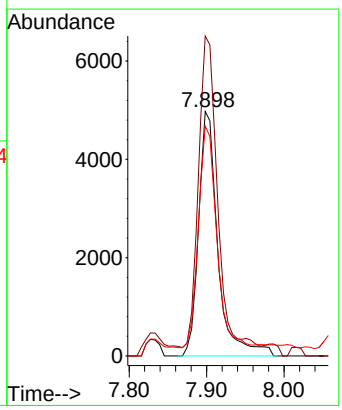


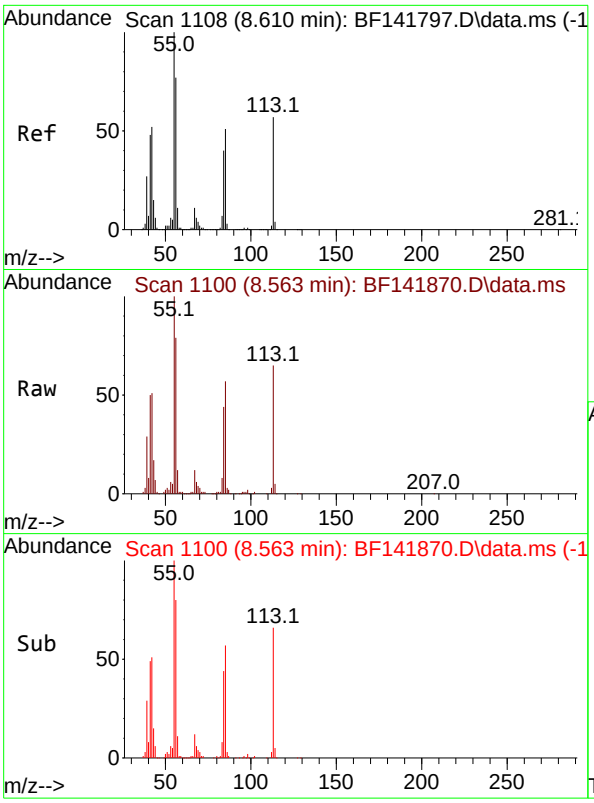


#32
Benzoic acid
Concen: 8.983 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:122 Resp: 8588

Ion	Ratio	Lower	Upper
122	100		
105	130.8	105.8	145.8
77	94.0	79.9	119.9



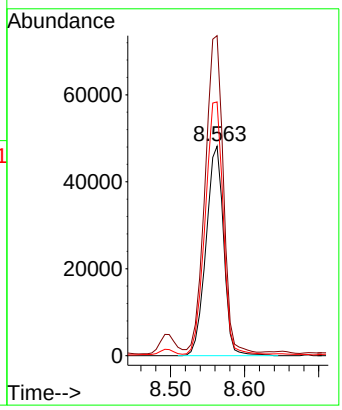


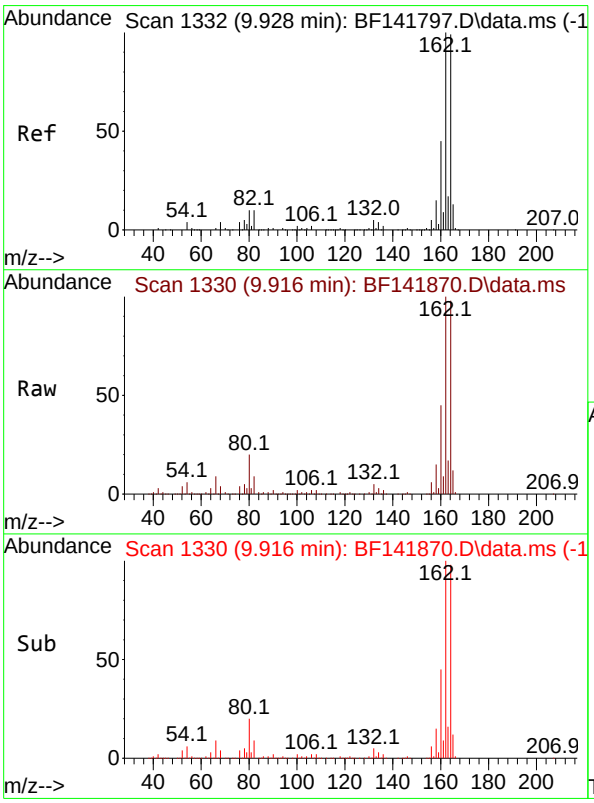
#35
Caprolactam
Concen: 33.405 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:113 Resp: 79297

Ion	Ratio	Lower	Upper
113	100		
55	152.8	155.6	195.6#
56	121.2	114.6	154.6

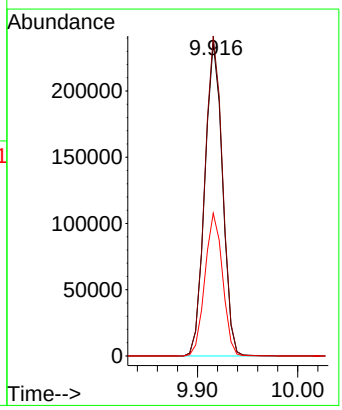


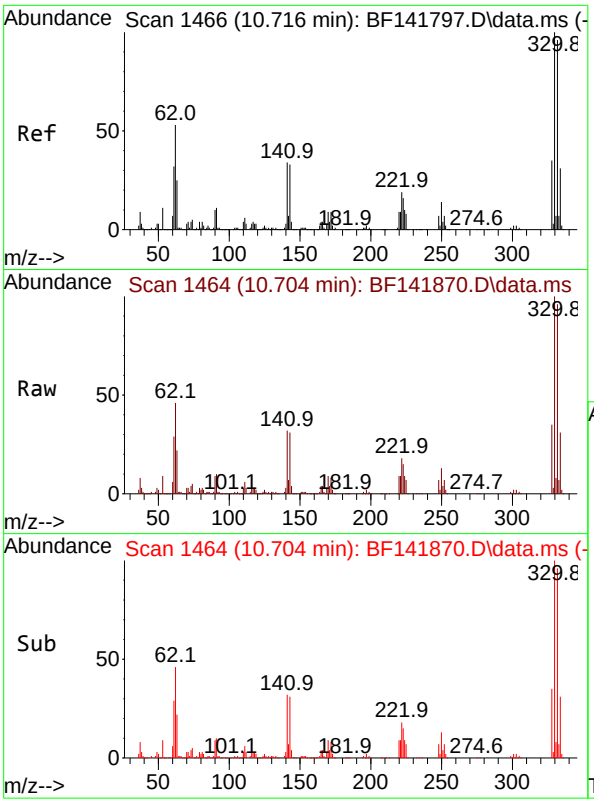


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:164 Resp: 290279

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.5	36.3	54.5



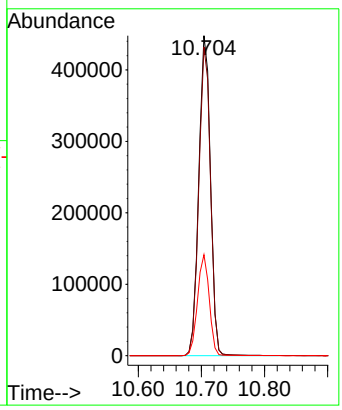


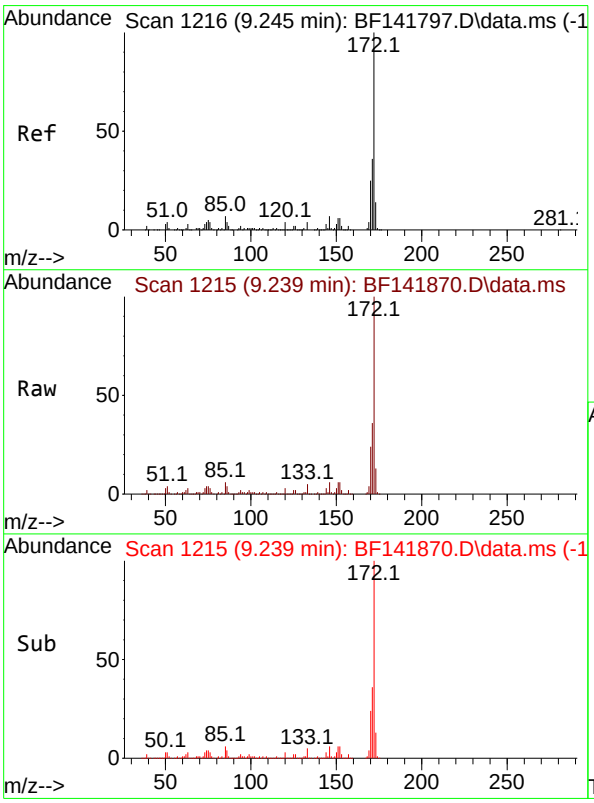
#42
2,4,6-Tribromophenol
Concen: 210.507 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:330 Resp: 573671

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	31.7	29.0	43.4

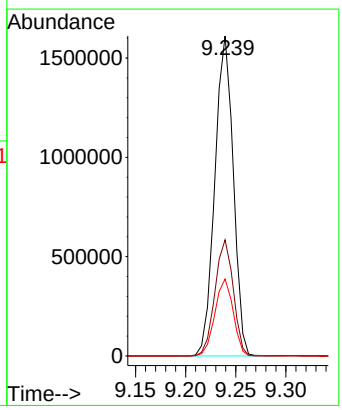


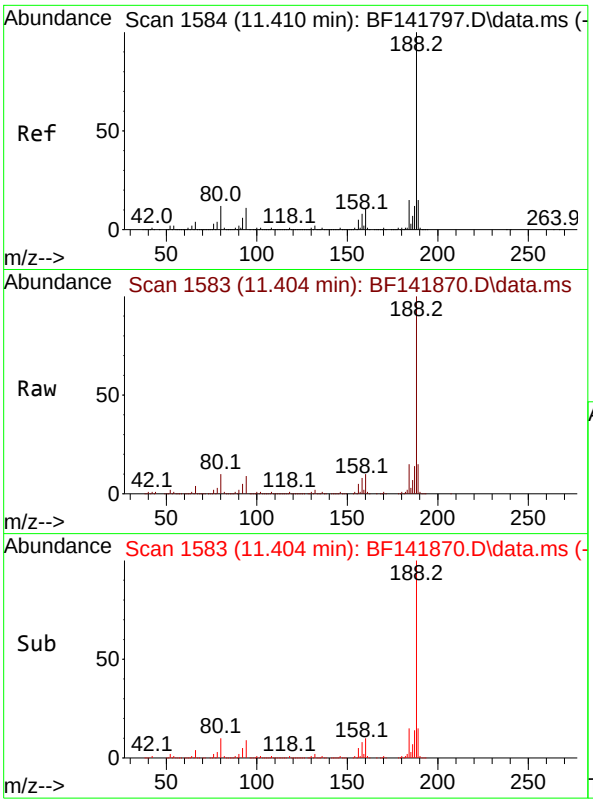


#45
2-Fluorobiphenyl
Concen: 113.765 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:172 Resp: 2059546

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	24.0	19.7	29.5



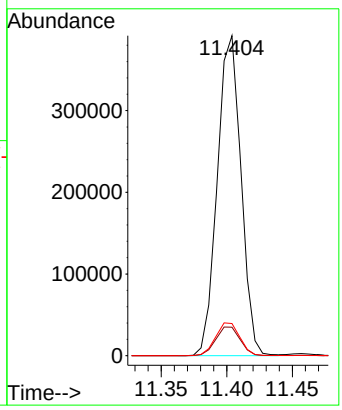


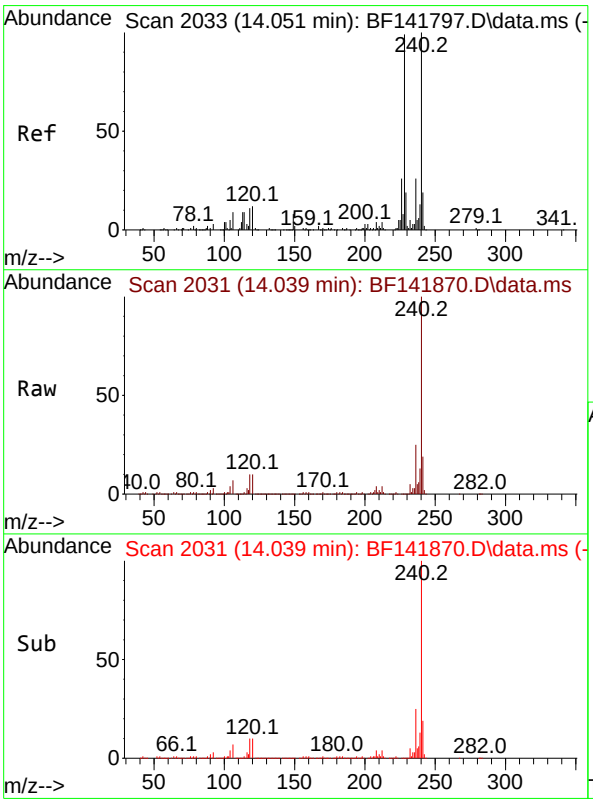
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:188 Resp: 493097

Ion	Ratio	Lower	Upper
188	100		
94	8.9	8.9	13.3
80	10.1	9.7	14.5

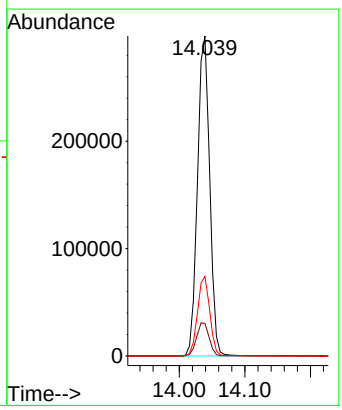


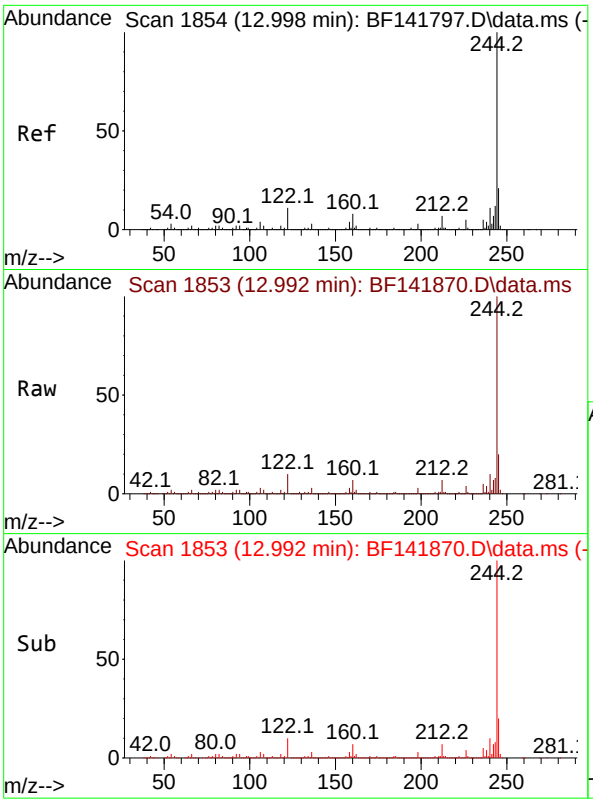


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:240 Resp: 386724

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.7	14.5
236	24.8	21.0	31.4



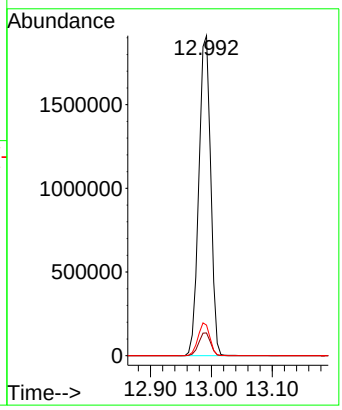


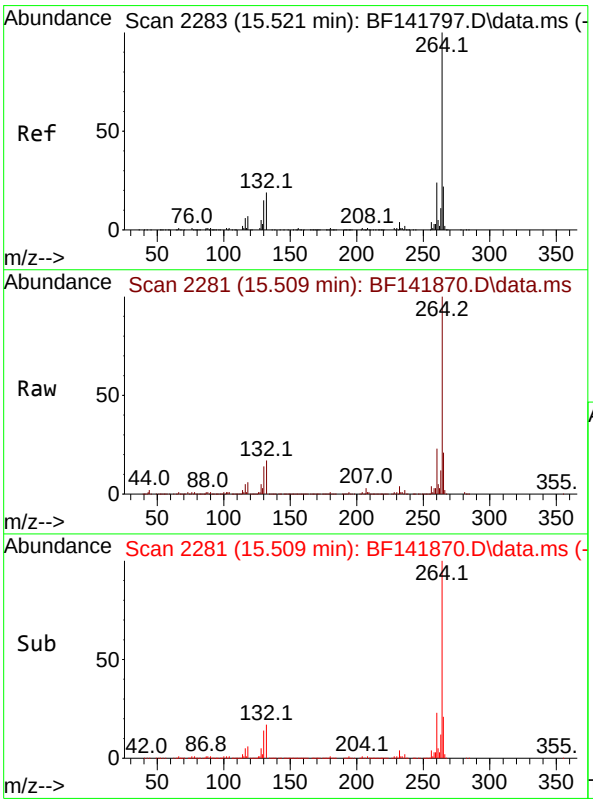
#79
Terphenyl-d14
Concen: 107.544 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Tgt Ion:244 Resp: 2570569

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.5	9.0	13.6

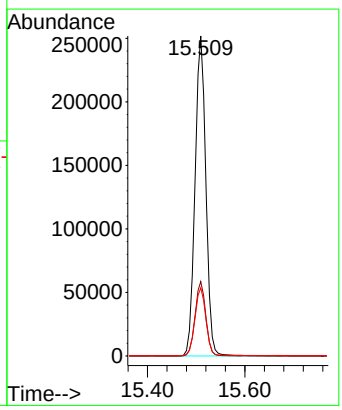




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:264 Resp: 390388

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.9	28.3
265	21.3	17.4	26.0



Sample Results: **BF141870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141870.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	28	rVB	3238359	5245557	68.11%	10.773%
2	5.104	503	512	524	rVB	229204	367973	4.78%	0.756%
3	5.498	564	579	599	rBV	2477921	3340148	43.37%	6.860%
4	5.834	631	636	645	rBV	174814	220234	2.86%	0.452%
5	6.498	740	749	761	rVB	1794335	2504758	32.52%	5.144%
6	6.687	776	781	783	rBV	722418	895975	11.63%	1.840%
7	6.716	783	786	790	rVB	675085	797169	10.35%	1.637%
8	6.810	796	802	807	rBV	964489	1272314	16.52%	2.613%
9	6.887	810	815	821	rVV	676180	913939	11.87%	1.877%
10	6.939	821	824	834	rVB	129631	171031	2.22%	0.351%
11	7.445	899	910	915	rBV	2469622	3373892	43.81%	6.929%
12	7.516	915	922	925	rVV	69923	121312	1.58%	0.249%
13	7.551	925	928	938	rVB	71914	104484	1.36%	0.215%
14	7.904	983	988	1001	rVB3	71001	114062	1.48%	0.234%
15	8.163	1027	1032	1040	rBV	886661	1100759	14.29%	2.261%
16	8.498	1083	1089	1093	rBV3	69024	109828	1.43%	0.226%
17	8.563	1093	1100	1112	rVB	442905	755935	9.81%	1.552%
18	9.239	1209	1215	1220	rBV	4792855	6136608	79.68%	12.603%
19	9.916	1325	1330	1335	rBV	1012498	1244593	16.16%	2.556%
20	10.322	1395	1399	1406	rVB	145606	191841	2.49%	0.394%
21	10.627	1446	1451	1458	rVB	434320	549239	7.13%	1.128%
22	10.704	1458	1464	1469	rBV	3305527	4237823	55.02%	8.703%
23	10.939	1494	1504	1508	rBV	108861	144176	1.87%	0.296%
24	11.404	1578	1583	1588	rVB	975691	1232763	16.01%	2.532%
25	11.510	1596	1601	1608	rBV	65936	106595	1.38%	0.219%
26	11.927	1666	1672	1686	rBV2	378509	618168	8.03%	1.270%
27	12.427	1752	1757	1763	rBV	55497	91026	1.18%	0.187%
28	12.639	1786	1793	1799	rBV	106238	174343	2.26%	0.358%
29	12.710	1800	1805	1815	rVV	111504	169266	2.20%	0.348%
30	12.804	1815	1821	1826	rBV	1692567	2229397	28.95%	4.579%
31	12.992	1846	1853	1864	rVB	5087829	7701943	100.00%	15.818%
32	13.880	1999	2004	2020	rBV	83521	155488	2.02%	0.319%
33	14.039	2025	2031	2038	rBV	799603	1059705	13.76%	2.176%
34	14.892	2172	2176	2182	rVB	110799	157719	2.05%	0.324%
35	15.509	2275	2281	2293	rVB	678106	1081955	14.05%	2.222%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 48692018

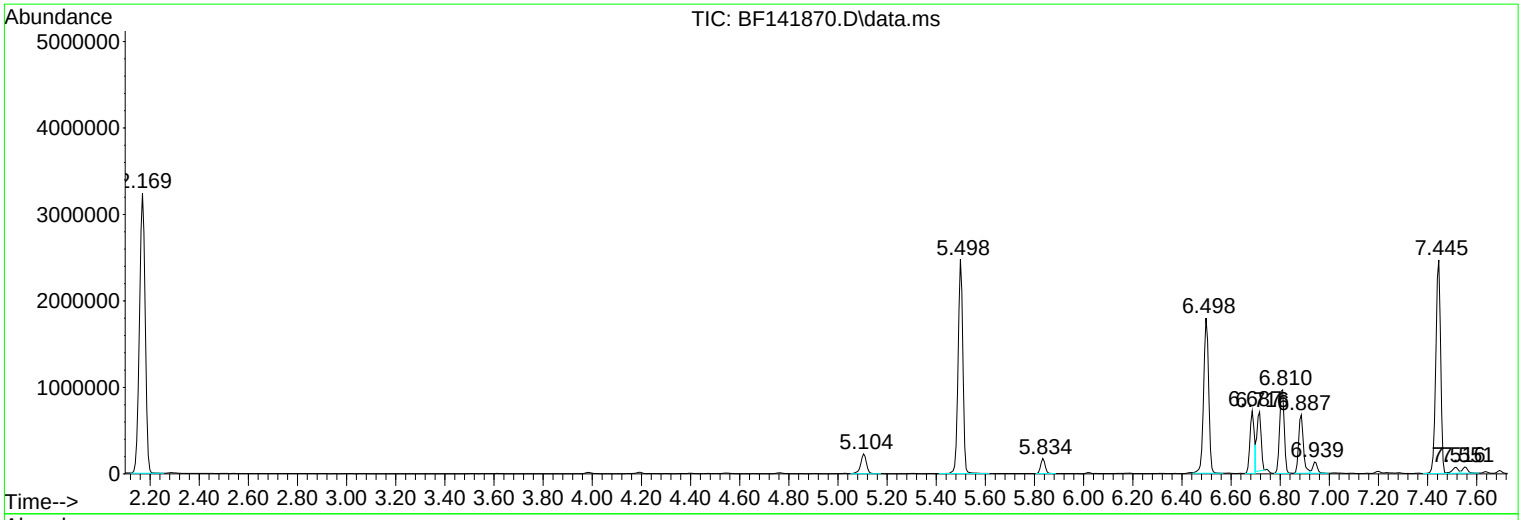
Sample Results: **BF141870.D**

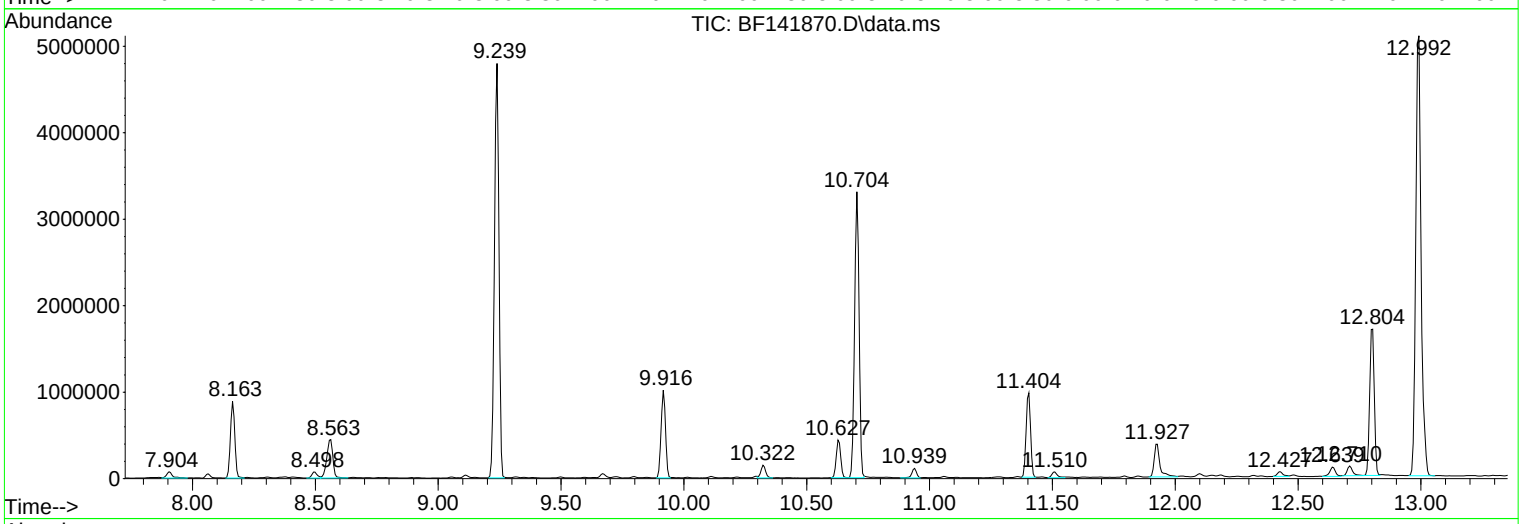
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

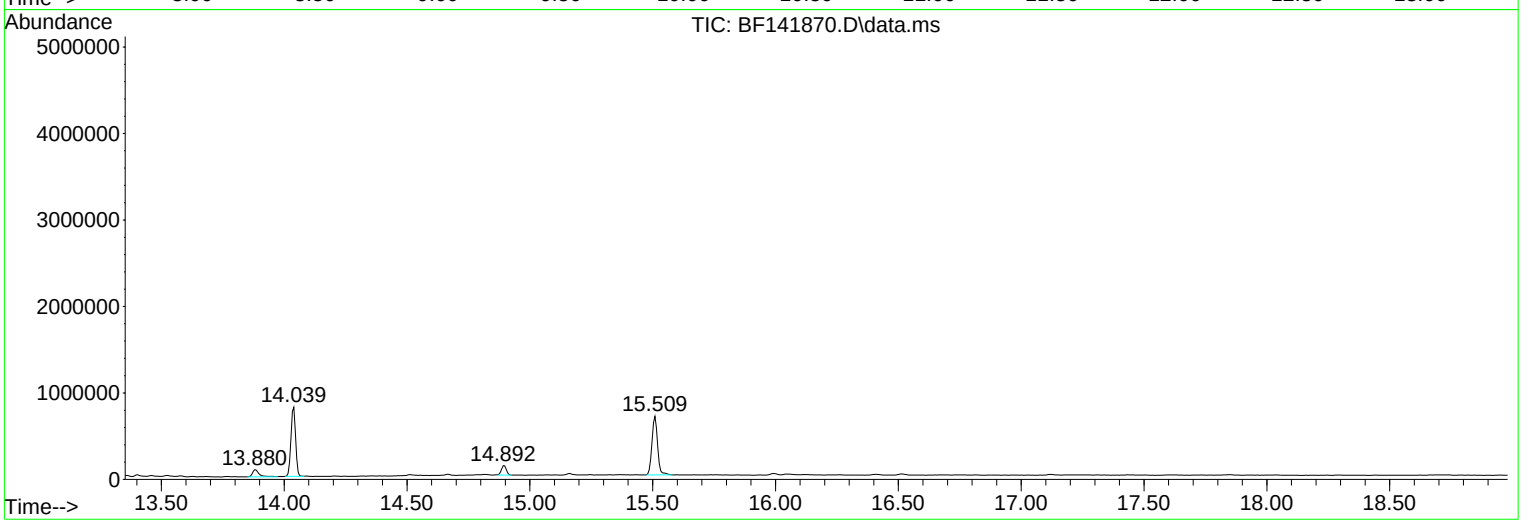
Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

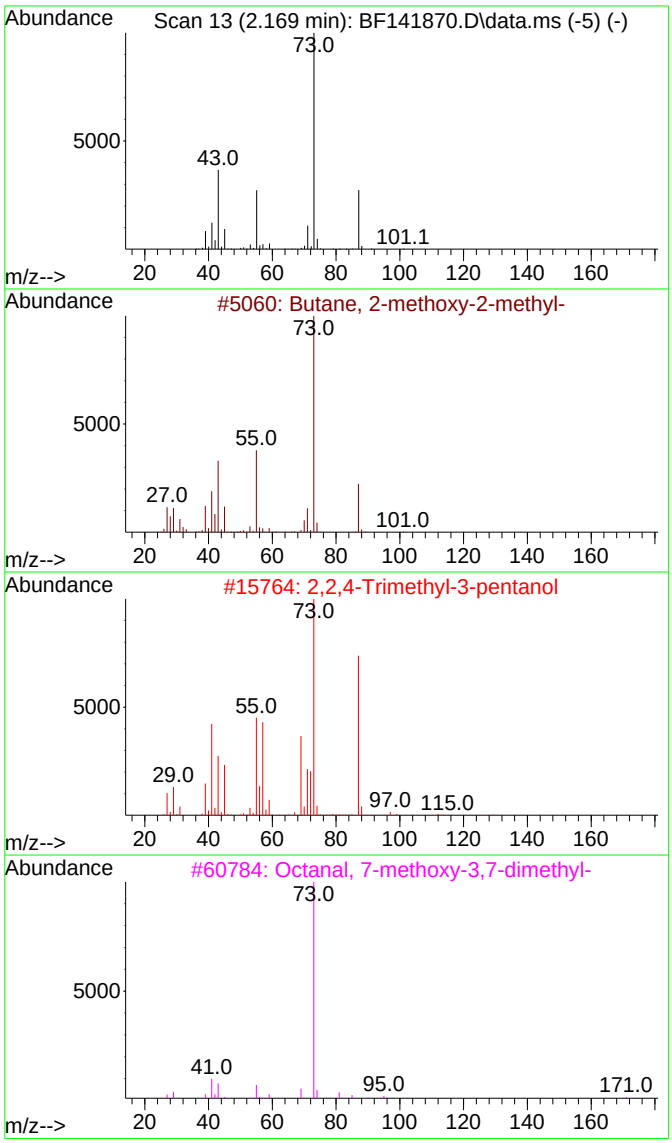
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

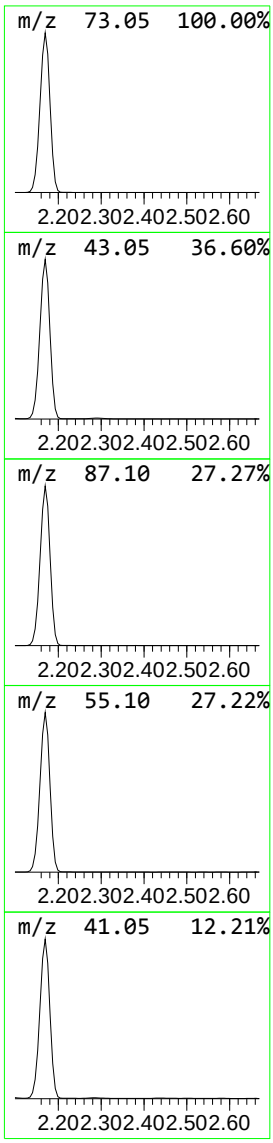
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	114.79 ng	5245560	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

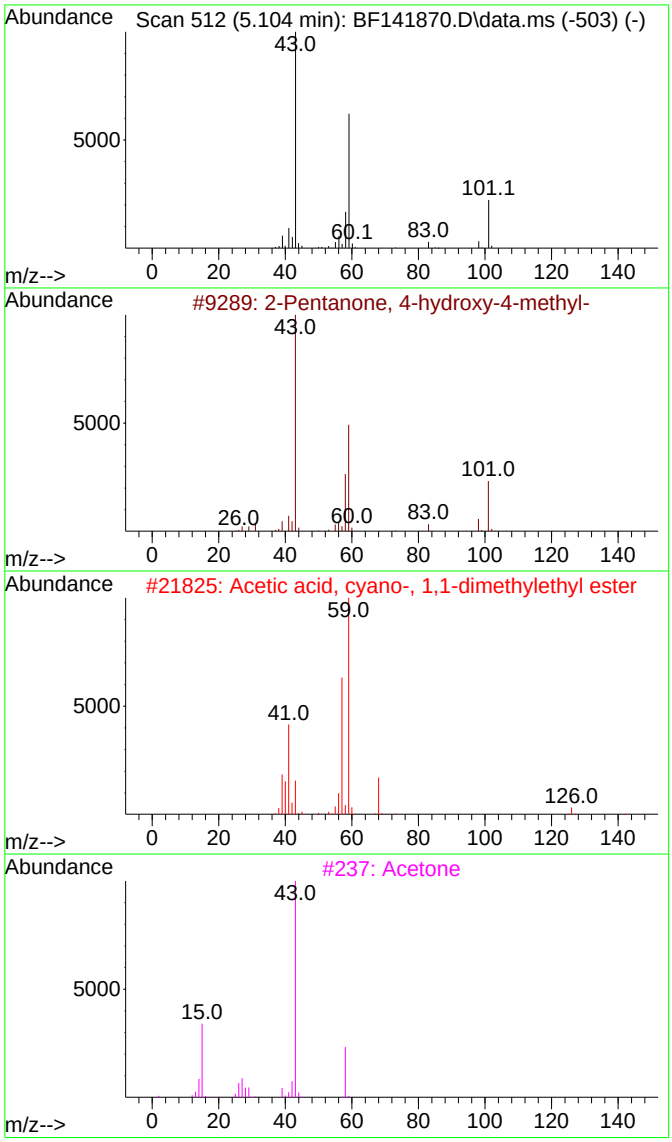
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

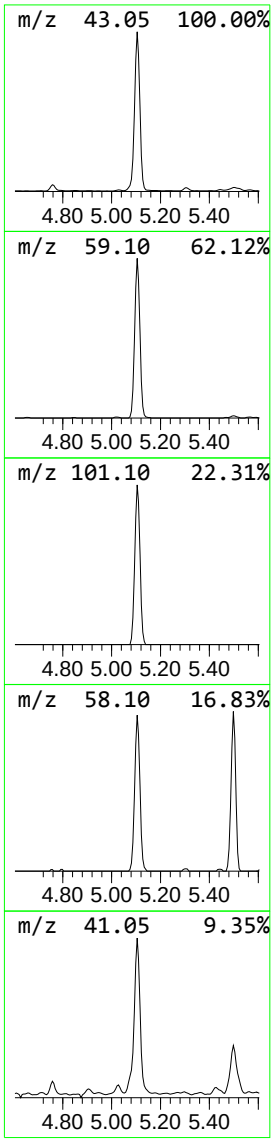
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	8.05 ng	367973	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	Acetone	58	C3H6O	000067-64-1	10
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	5-Hexen-2-one	98	C6H10O	000109-49-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

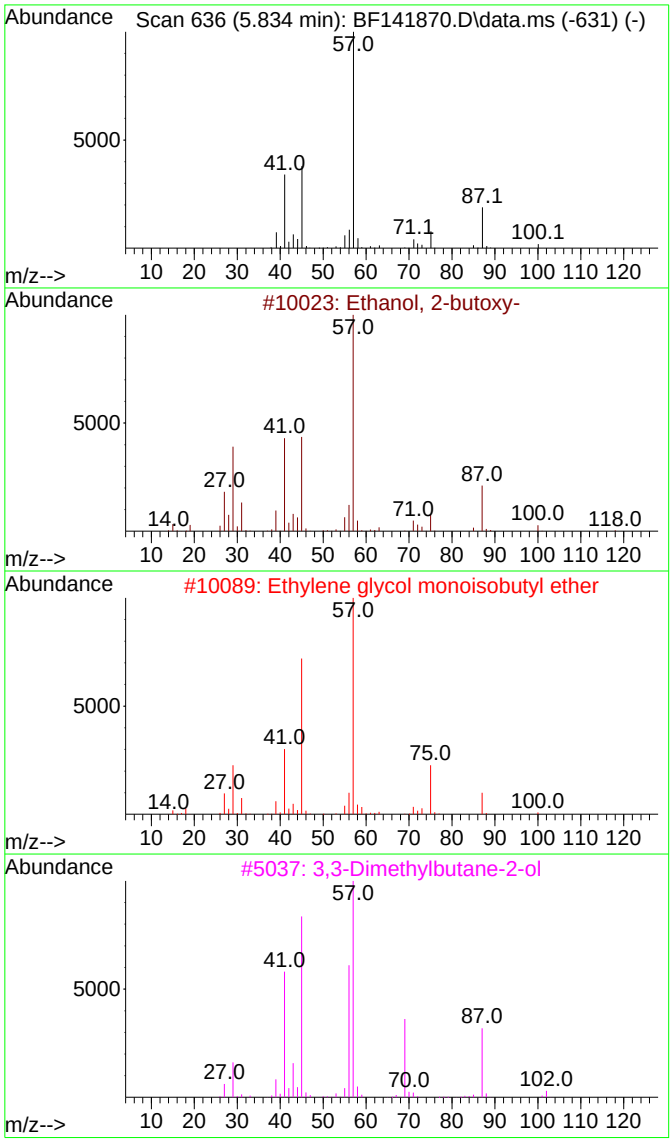
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

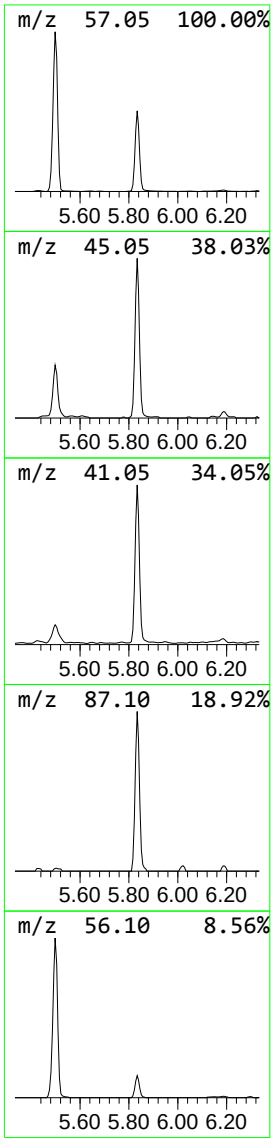
****

Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.834	4.82 ng	220234	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2	Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	42
3	3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	33
4	n-Butyl ether	130	C8H18O	000142-96-1	32
5	Propanoic acid, 2-methylpropyl e...	130	C7H14O2	000540-42-1	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

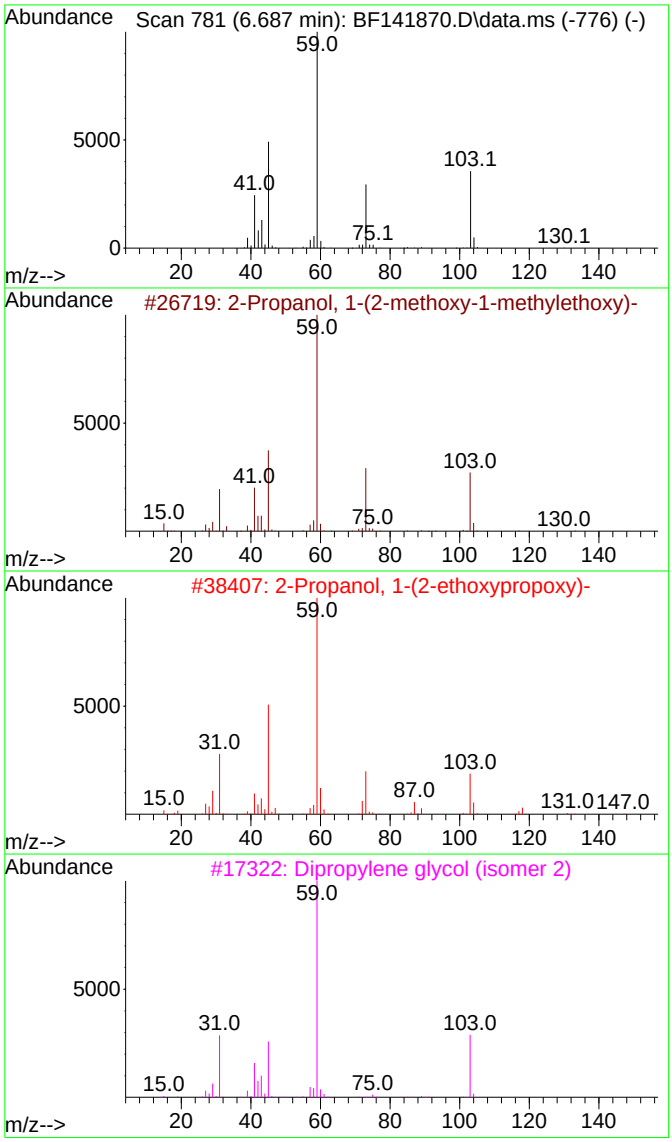
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

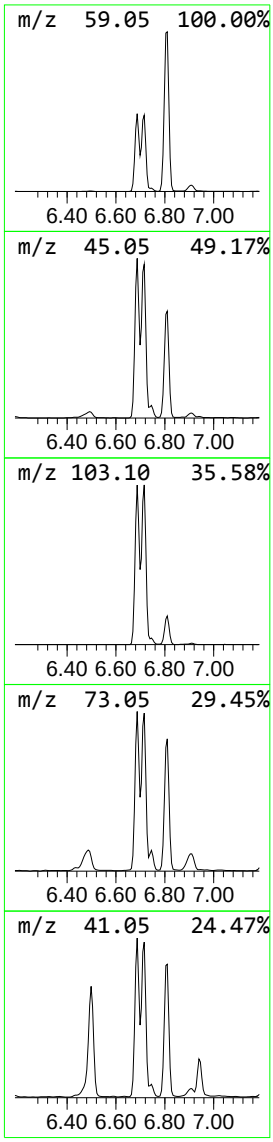
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.687	19.61 ng	895975	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	64
3	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50
4	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50
5	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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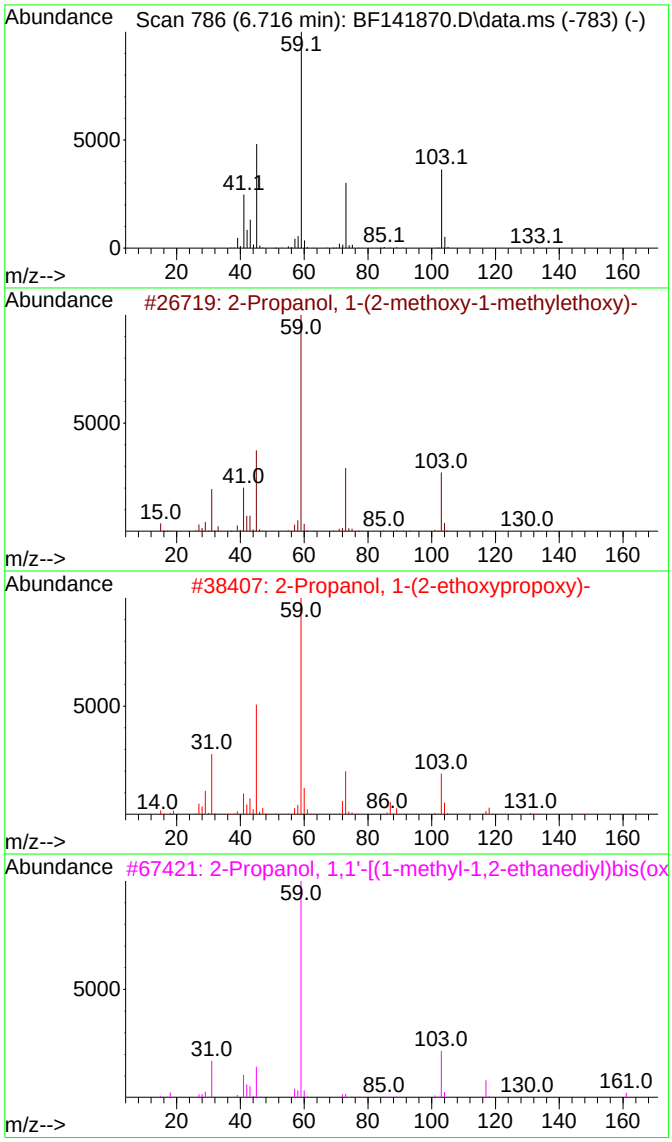
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

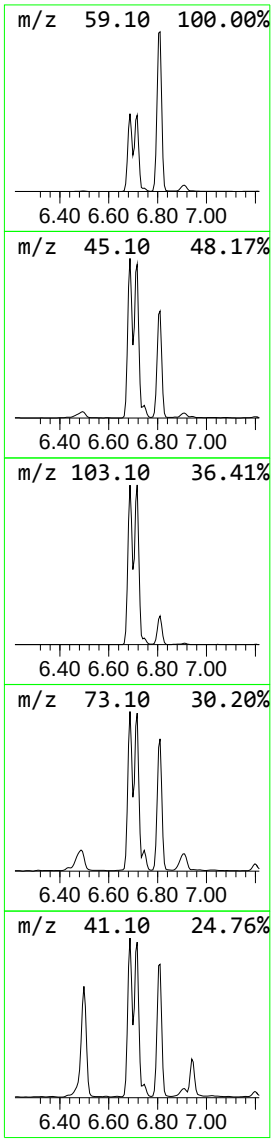
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Propanol, 1-(2-ethoxyprop... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.716	17.44 ng	797169	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	56
3	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	53
4	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50





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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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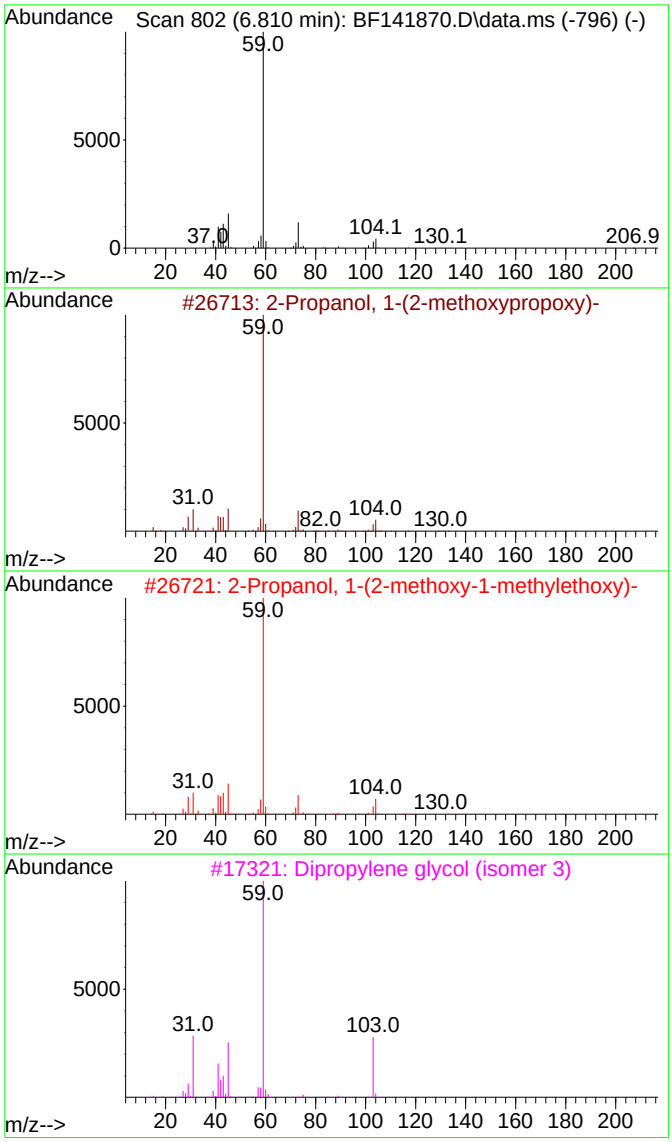
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

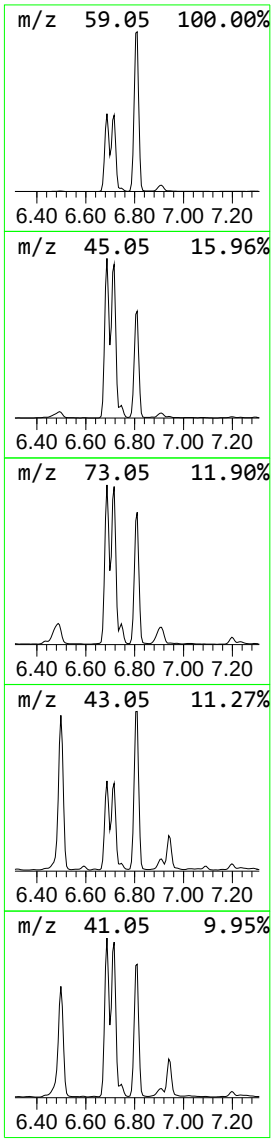
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 2-Propanol, 1-(2-methoxypro... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.810	27.84 ng	1272310	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	83
2	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
3	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	64
4	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	64
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64





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Misc :
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Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

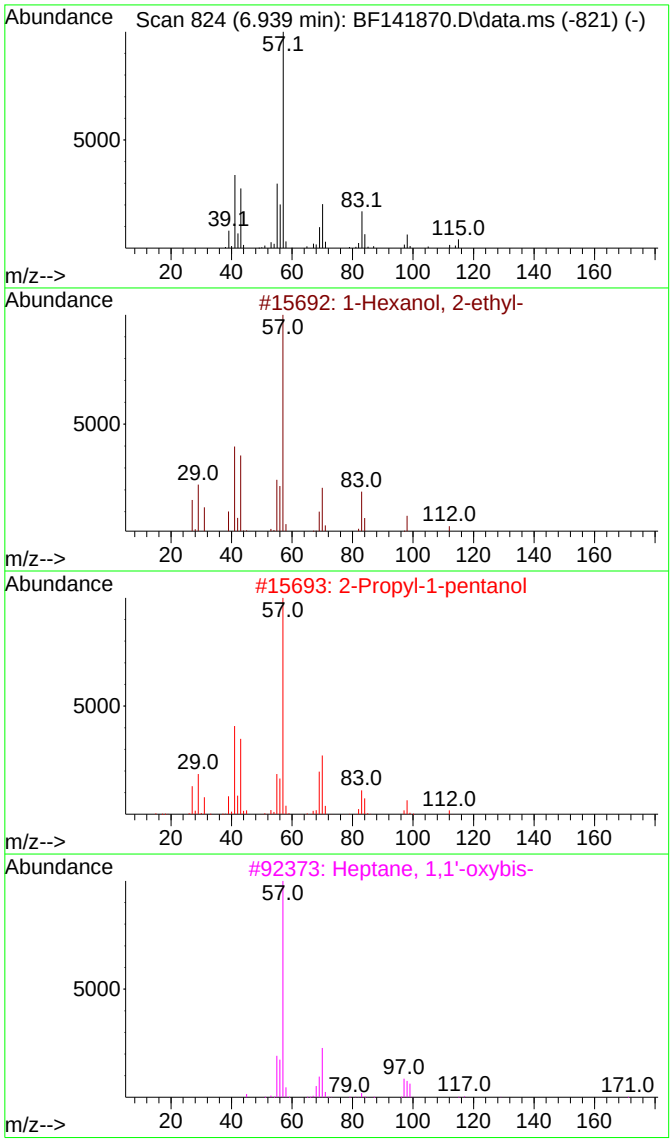
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

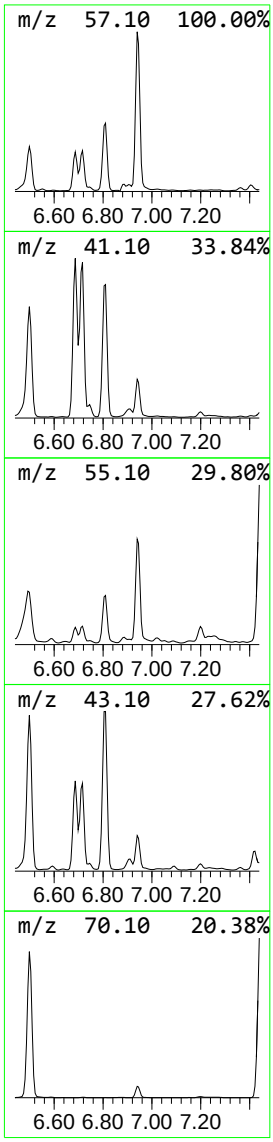
****

Peak Number 7 1-Hexanol, 2-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.939	3.74 ng	171031	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	53
3	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	45
4	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	40
5	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	39





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

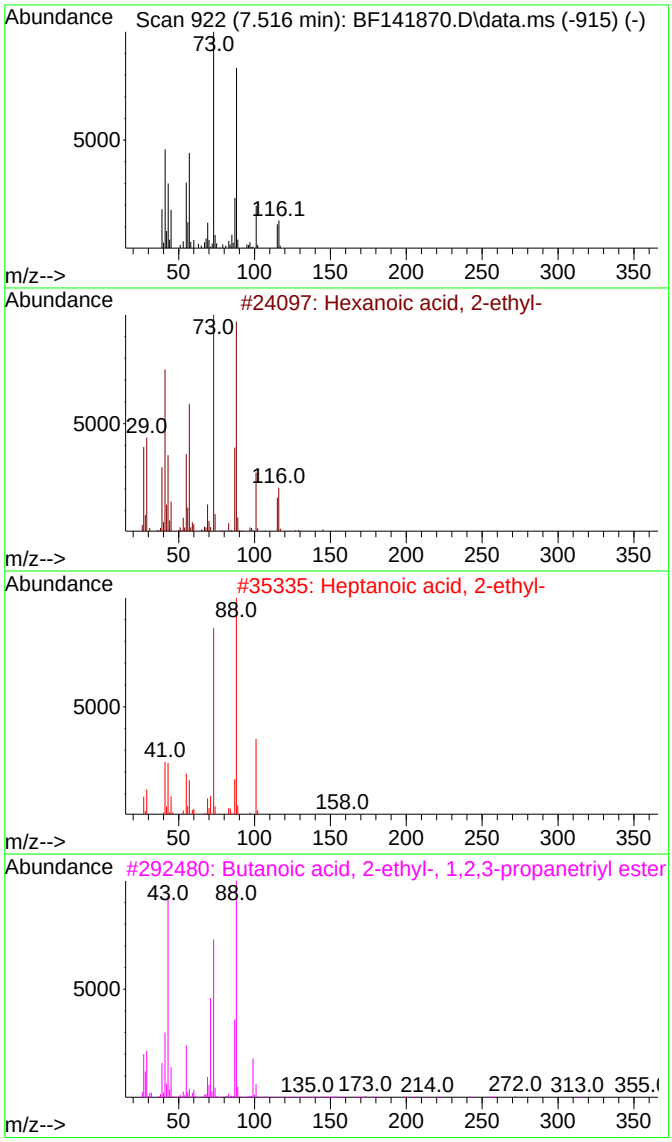
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

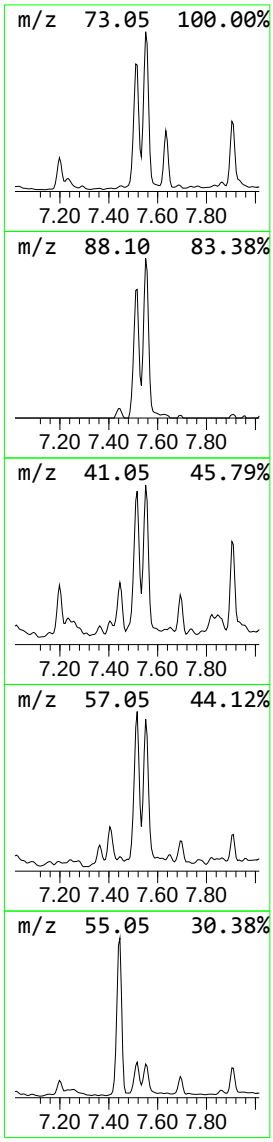
****

Peak Number 8 Hexanoic acid, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.516	2.65 ng	121312	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
2	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	53
3	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	53
4	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	50
5	3-Dodecyloxypropanoic acid, Me d...	272	C16H32O3	1000497-89-8	42





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Acq On : 06 Mar 2025 16:00
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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

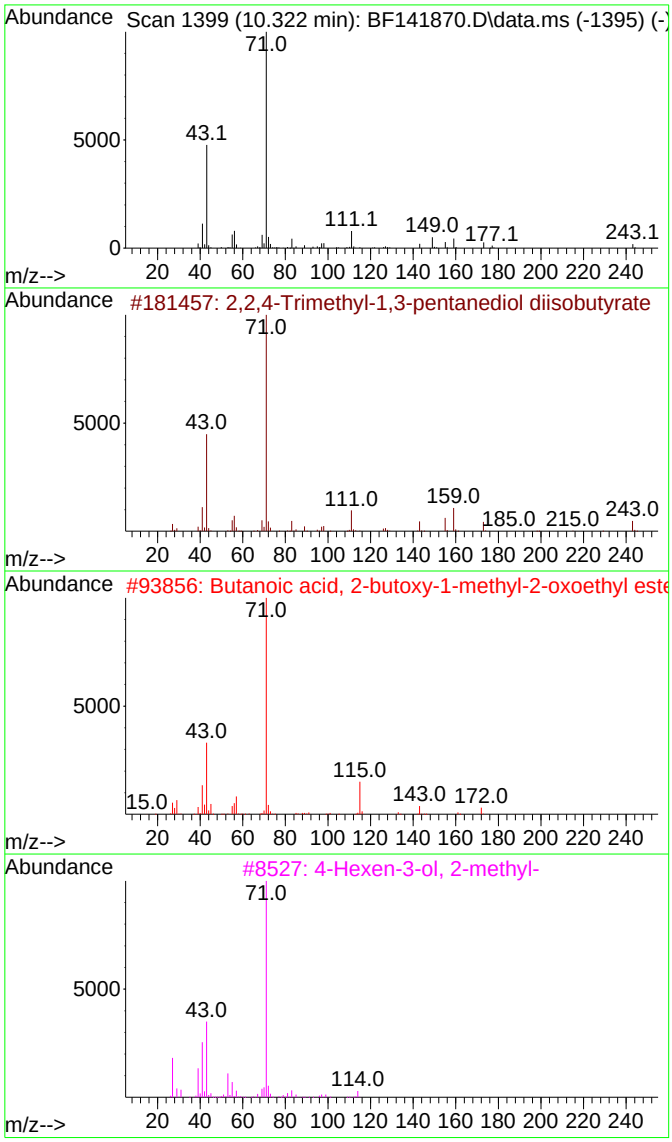
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

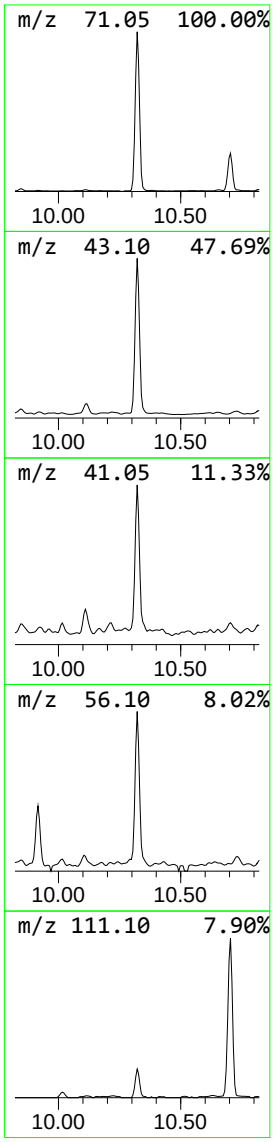
****

Peak Number 9 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.322	3.08 ng	191841	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	72
2	Butanoic acid, 2-butoxy-1-methyl...	216	C11H20O4	007492-70-8	45
3	4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4	Succinic acid, 2,2-dichloroethyl...	298	C11H16Cl2O5	1000390-71-6	45
5	Diethylmalonic acid, monochlorid...	262	C12H19ClO4	1000370-65-0	45





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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

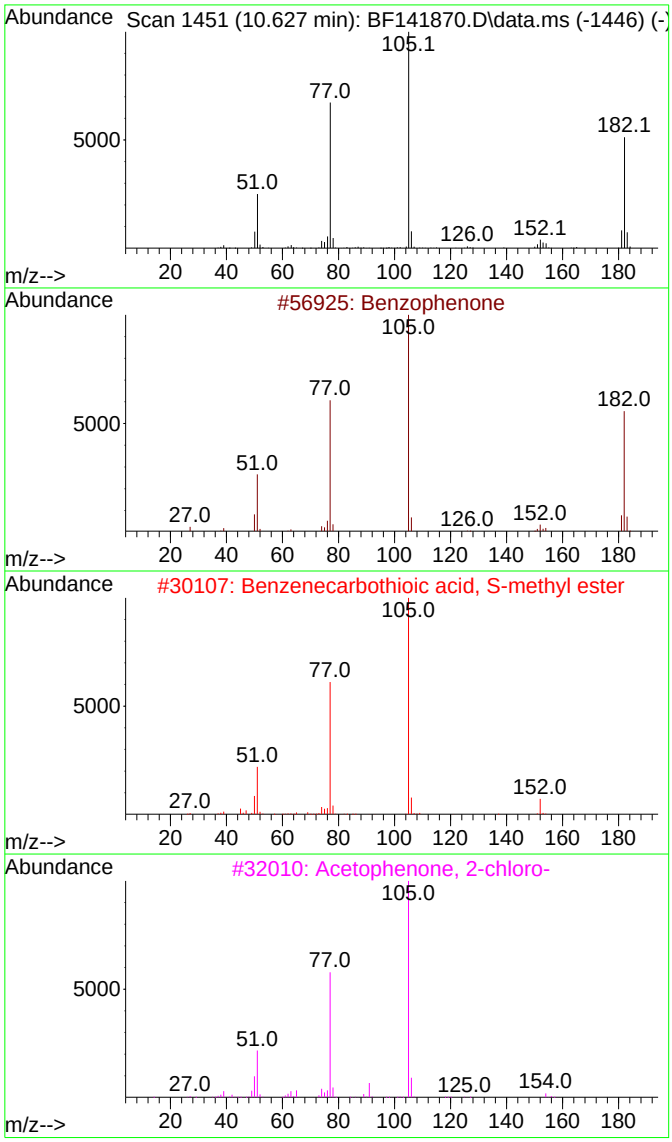
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

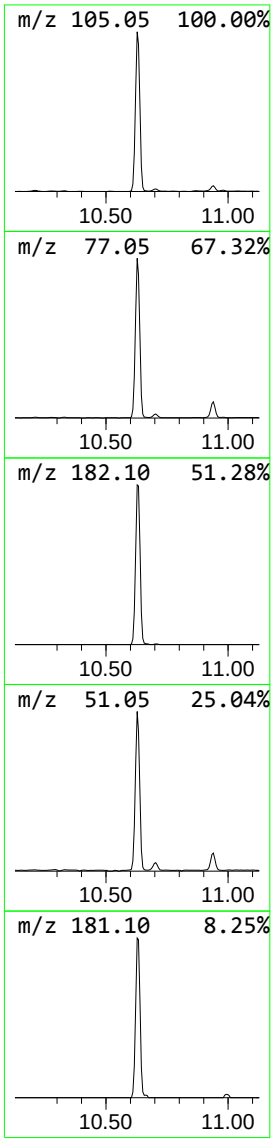
****

Peak Number 10 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	8.83 ng	549239	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ENV-104-GW01

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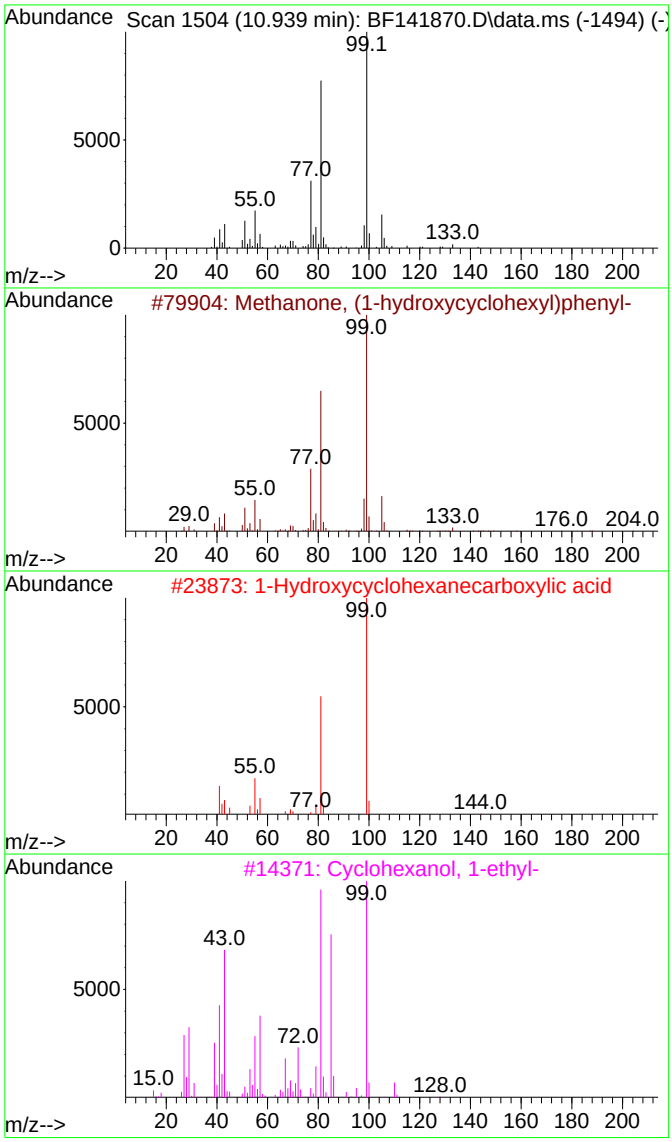
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

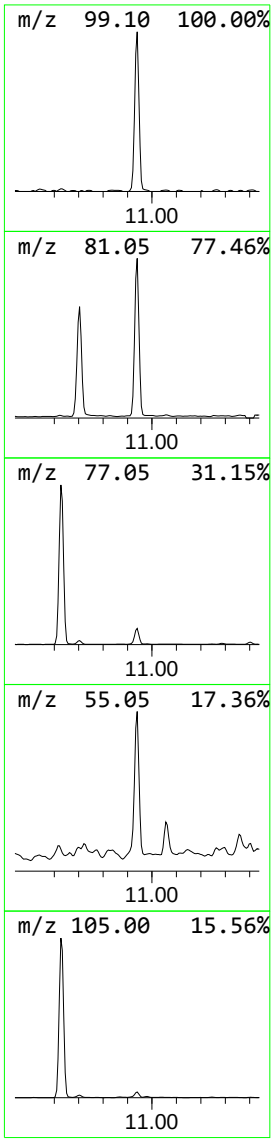
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Methanone, (1-hydroxycycloh... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.34 ng	144176	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
3	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	36
4	Hexanethioic acid, S-heptyl ester	230	C13H26OS	002432-80-6	22
5	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16





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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

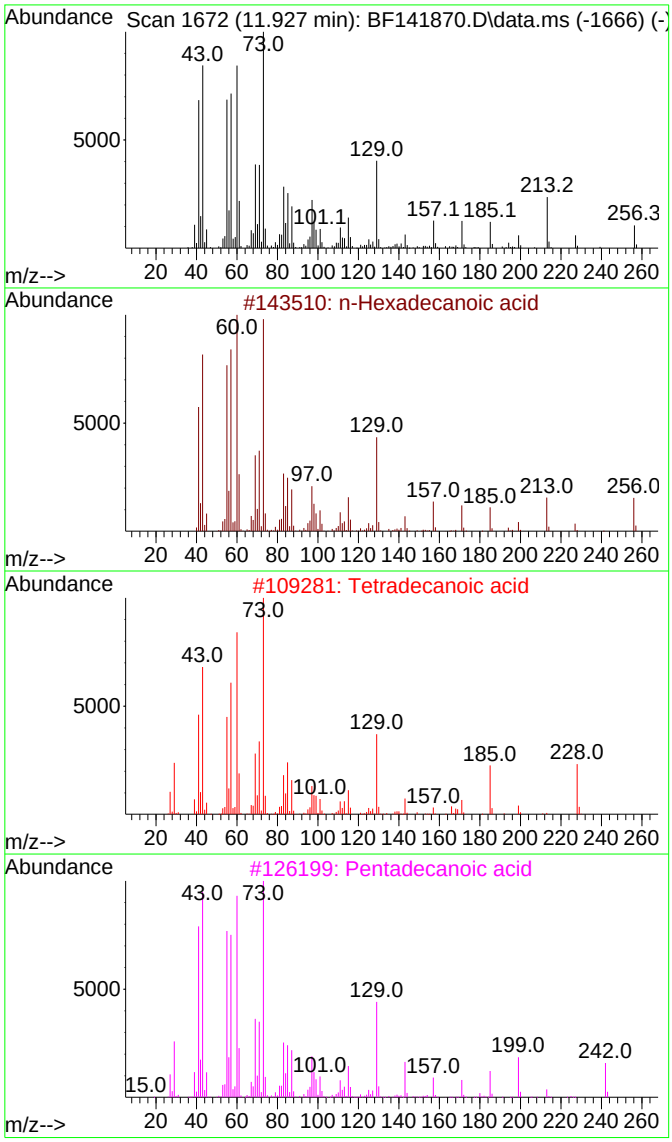
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

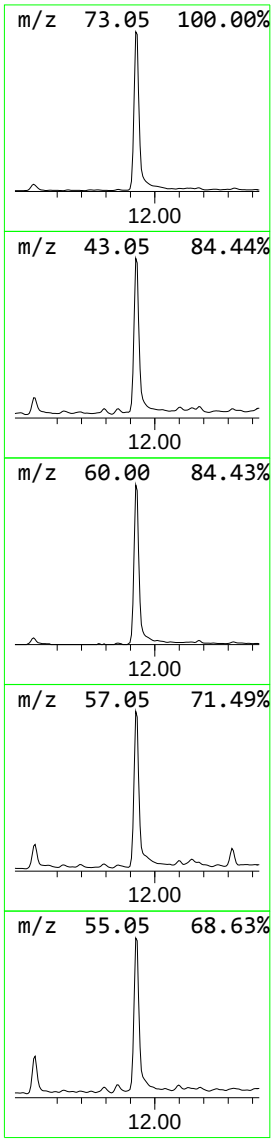
****

Peak Number 12 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	10.03 ng	618168	Phenanthrene-d10	11.404

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	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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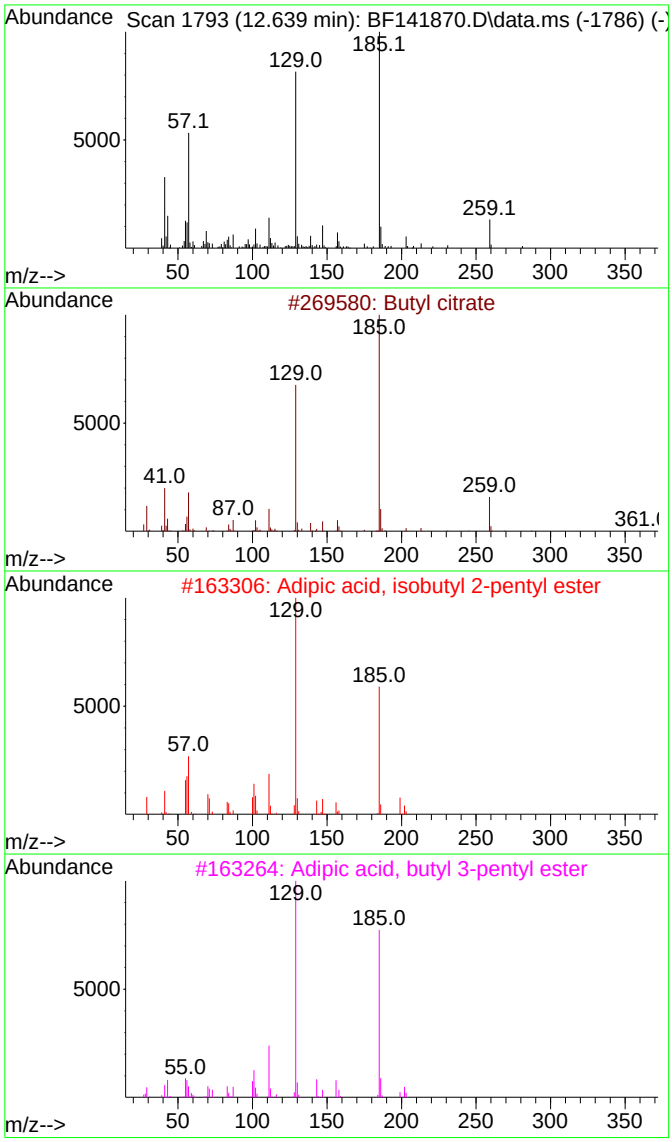
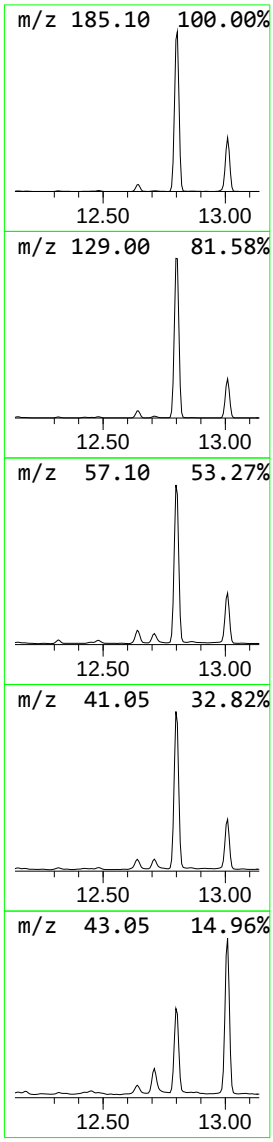
Peak Number 13 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.83 ng	174343	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	83
2	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	72
4	Adipic acid, isobutyl 2-methylbu...	272	C15H28O4	1000324-67-1	53
5	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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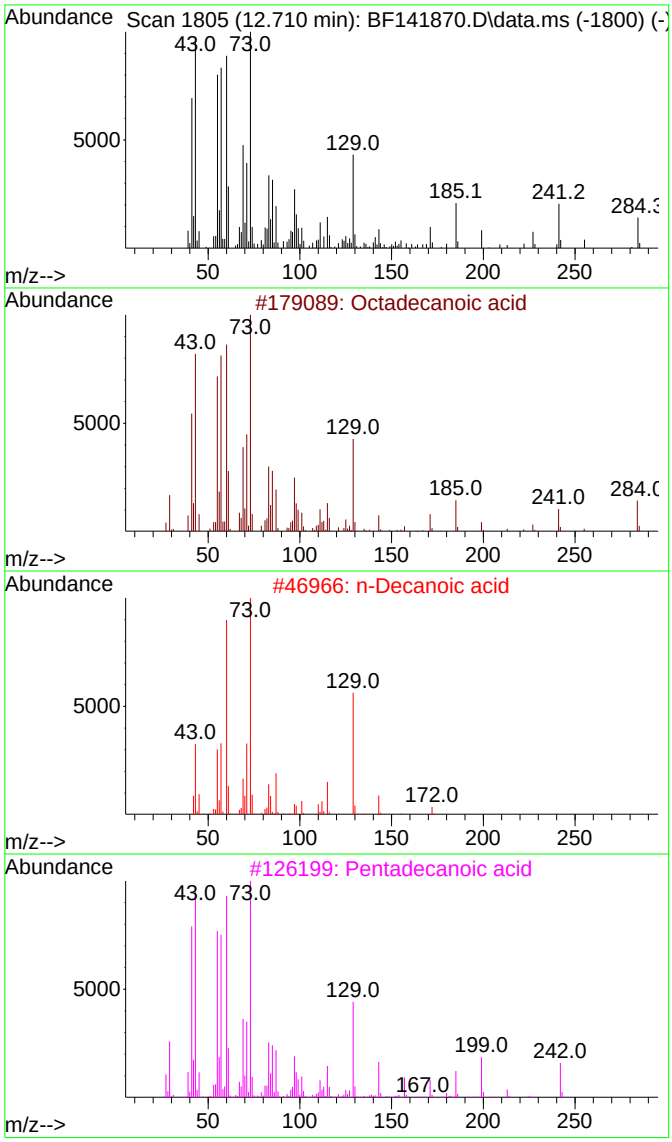
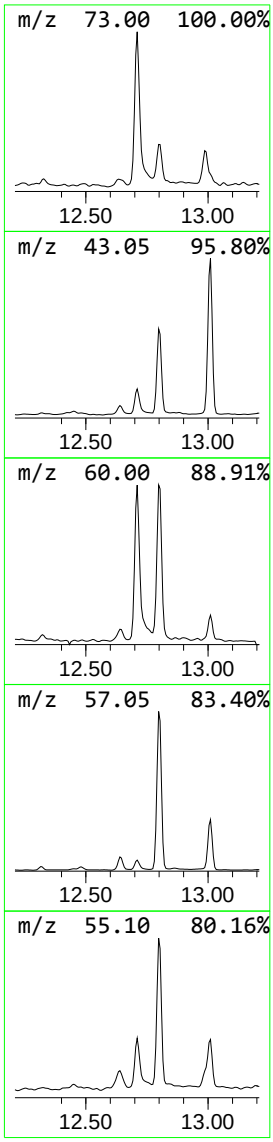
Peak Number 14 Octadecanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	2.75 ng	169266	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Decanoic acid	172	C10H20O2	000334-48-5	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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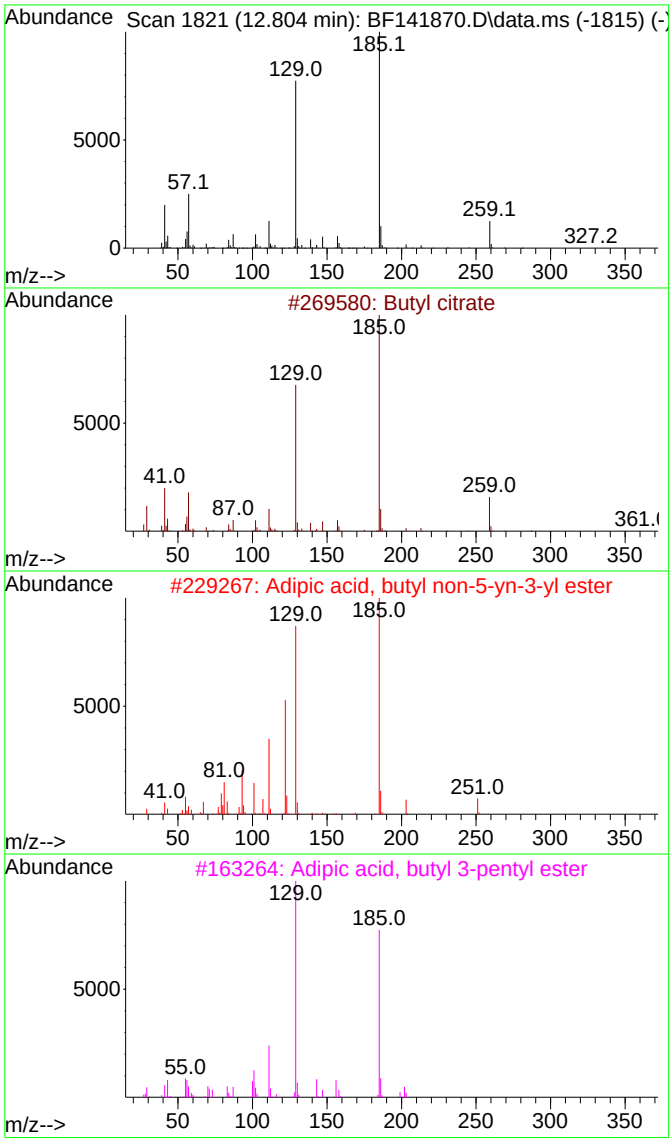
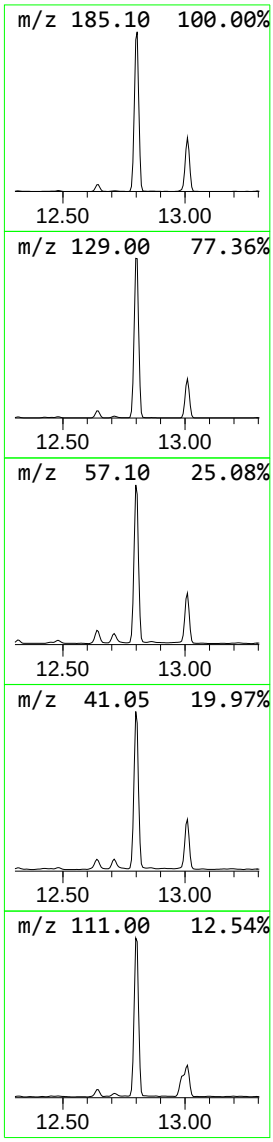
Peak Number 15 Adipic acid, butyl non-5-yn... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.804	42.08 ng	2229400	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, butyl non-5-yn-3-yl...	324	C19H32O4	1000324-32-5	72
3	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	64
4	Adipic acid, isobutyl pent-4-en-...	270	C15H26O4	1000354-11-8	56
5	Adipic acid, butyl isobutyl ester	258	C14H26O4	1010324-09-3	50





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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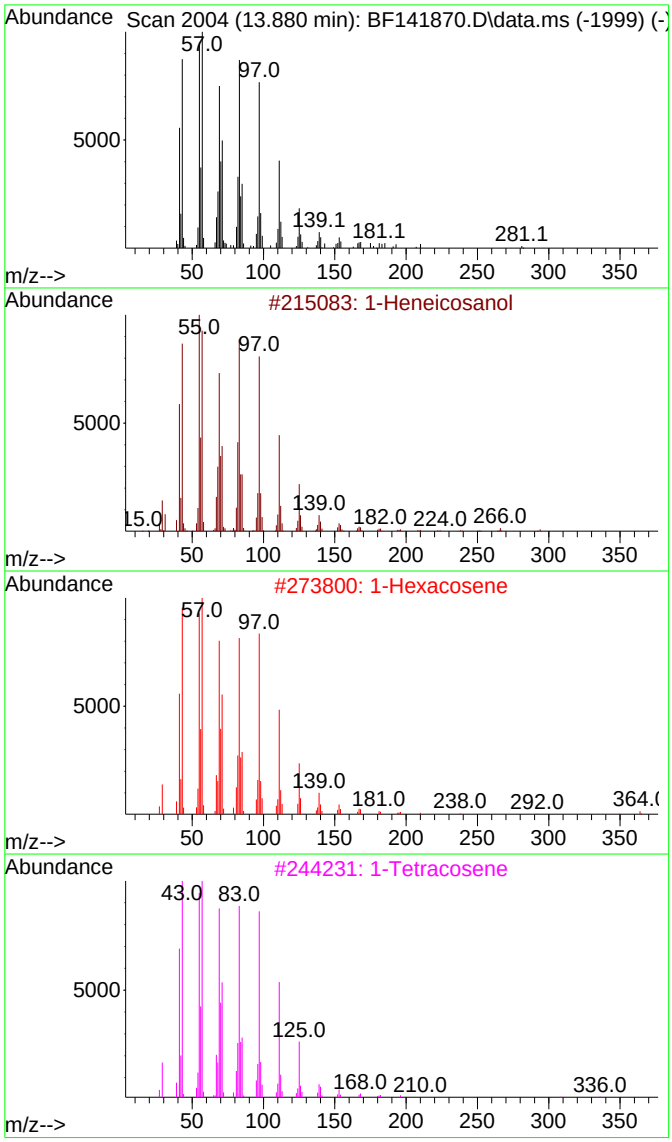
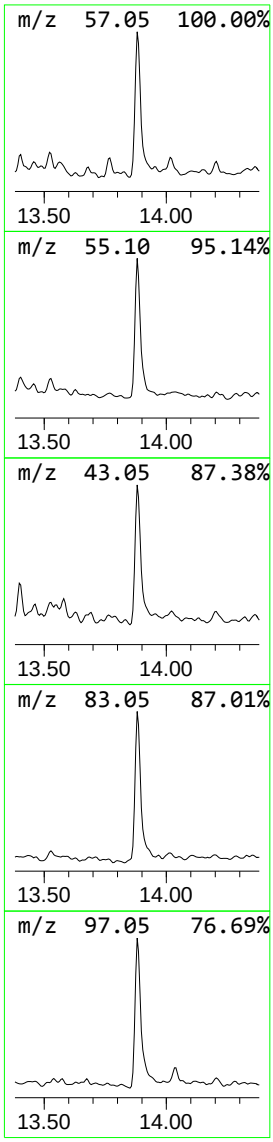
Peak Number 16 1-Heneicosanol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	2.93 ng	155488	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Hexacosene	364	C26H52	018835-33-1	95
3	1-Tetracosene	336	C24H48	010192-32-2	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

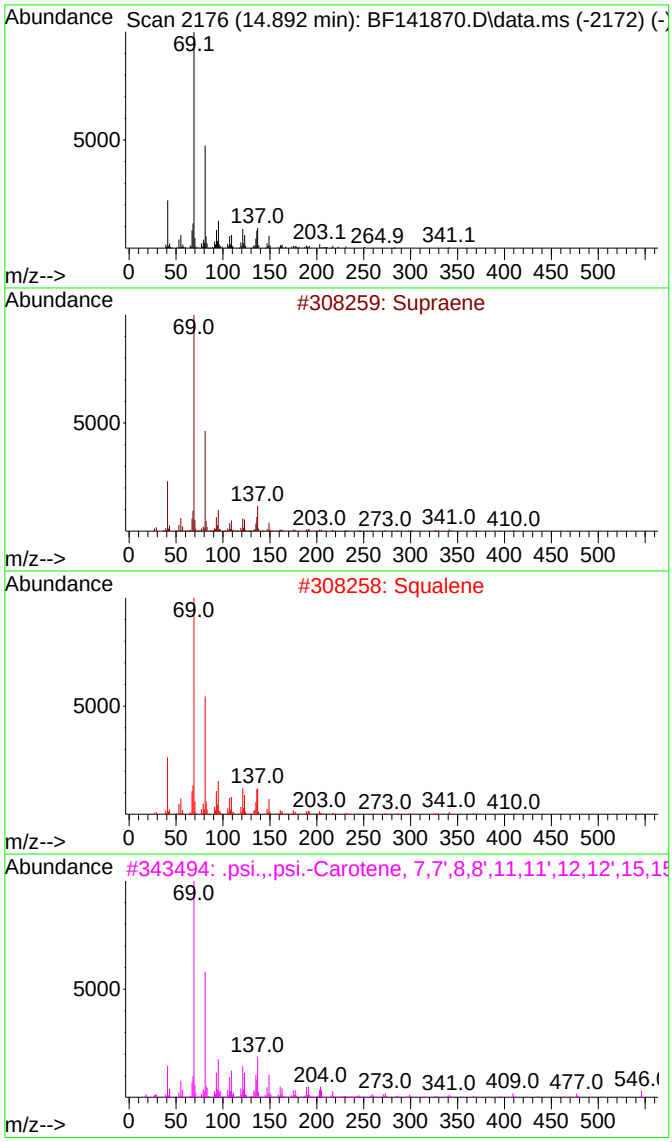
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

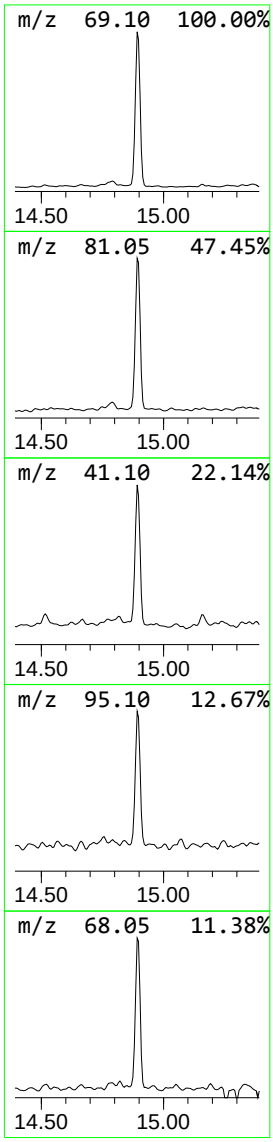
****

Peak Number 17 Supraene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.92 ng	157719	Perylene-d12	15.509

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	.psi.,.psi.-Carotene, 7,7',8,8',...	547	C40H66	000502-62-5	83
4	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	83
5	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.169	114.8	ng	5245560	1	6.887	913939	20.0
2-Pentanone, 4-...	5.104	8.1	ng	367973	1	6.887	913939	20.0
Ethanol, 2-butoxy-	5.834	4.8	ng	220234	1	6.887	913939	20.0
2-Propanol, 1-(...	6.687	19.6	ng	895975	1	6.887	913939	20.0
2-Propanol, 1-(...	6.716	17.4	ng	797169	1	6.887	913939	20.0
2-Propanol, 1-(...	6.810	27.8	ng	1272310	1	6.887	913939	20.0
1-Hexanol, 2-et...	6.939	3.7	ng	171031	1	6.887	913939	20.0
Hexanoic acid, ...	7.516	2.6	ng	121312	1	6.887	913939	20.0
2,2,4-Trimethyl...	10.322	3.1	ng	191841	3	9.916	1244590	20.0
Benzophenone	10.628	8.8	ng	549239	3	9.916	1244590	20.0
Methanone, (1-h...	10.939	2.3	ng	144176	4	11.404	1232760	20.0
n-Hexadecanoic ...	11.927	10.0	ng	618168	4	11.404	1232760	20.0
Butyl citrate	12.639	2.8	ng	174343	4	11.404	1232760	20.0
Octadecanoic acid	12.710	2.8	ng	169266	4	11.404	1232760	20.0
Adipic acid, bu...	12.804	42.1	ng	2229400	5	14.039	1059710	20.0
1-Heneicosanol	13.880	2.9	ng	155488	5	14.039	1059710	20.0
Supraene	14.892	2.9	ng	157719	6	15.509	1081960	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

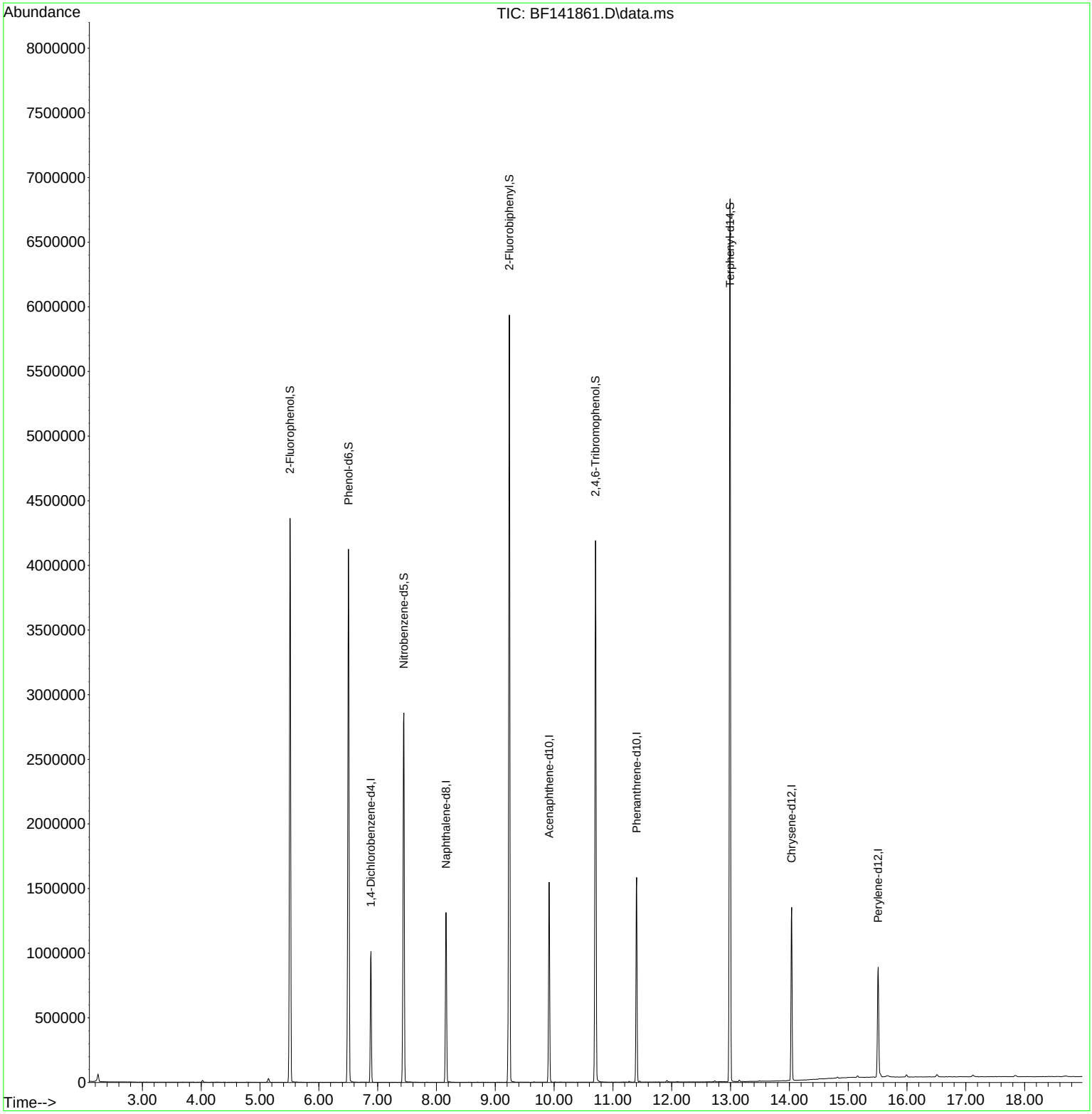
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	212037	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	840031	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	466101	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	808511	20.000	ng	0.00
76) Chrysene-d12	14.039	240	646602	20.000	ng	-0.01
86) Perylene-d12	15.510	264	495069	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1727468	130.107	ng	0.01
7) Phenol-d6	6.504	99	2126999	123.079	ng	0.00
23) Nitrobenzene-d5	7.445	82	1428020	108.662	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	752761	172.027	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2730516	93.933	ng	0.00
79) Terphenyl-d14	12.992	244	3482297	87.134	ng	0.00
Target Compounds						Qvalue

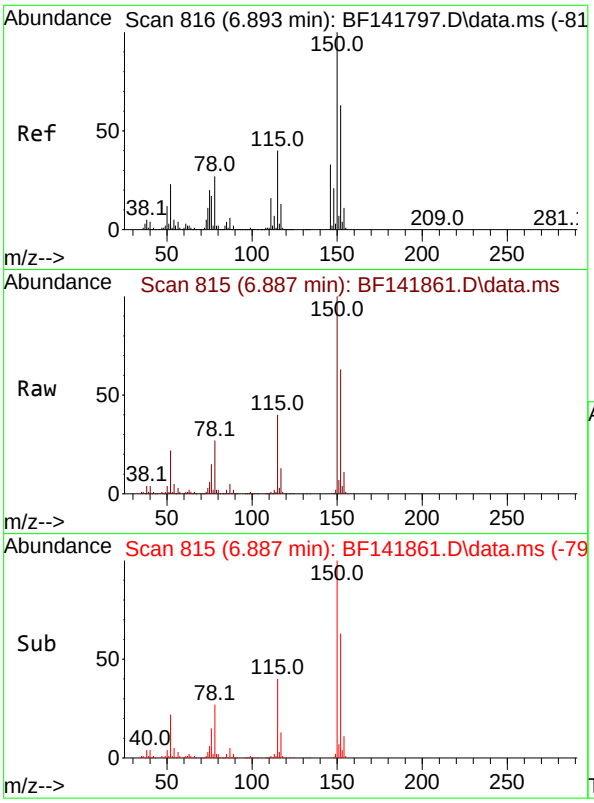
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



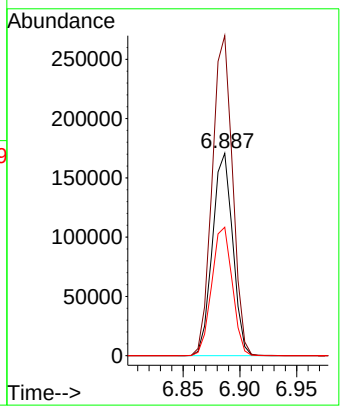


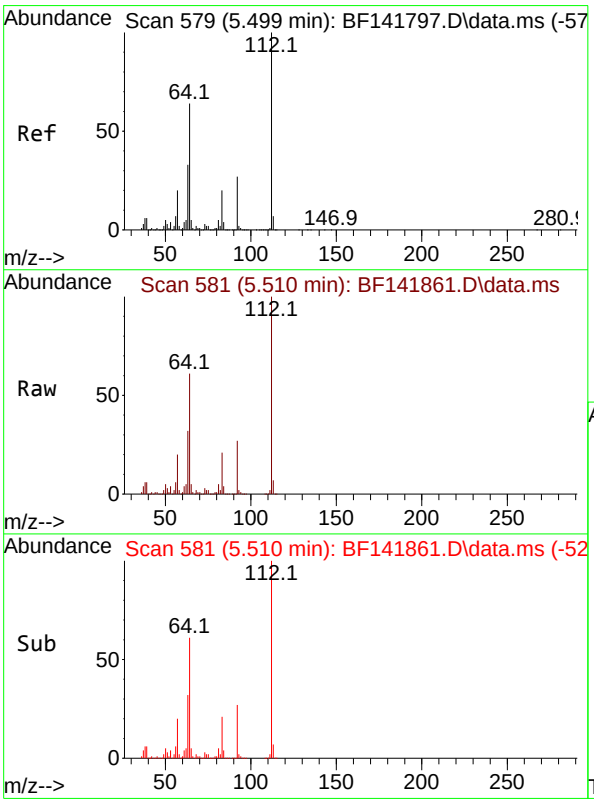
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:152 Resp: 212037

Ion	Ratio	Lower	Upper
152	100		
150	158.0	127.5	191.3
115	63.4	51.4	77.2

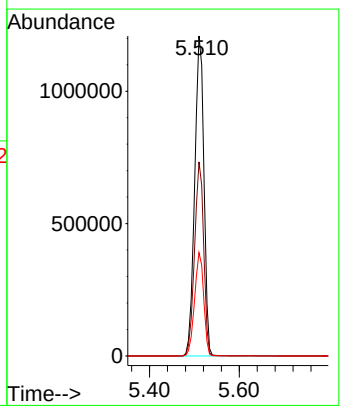


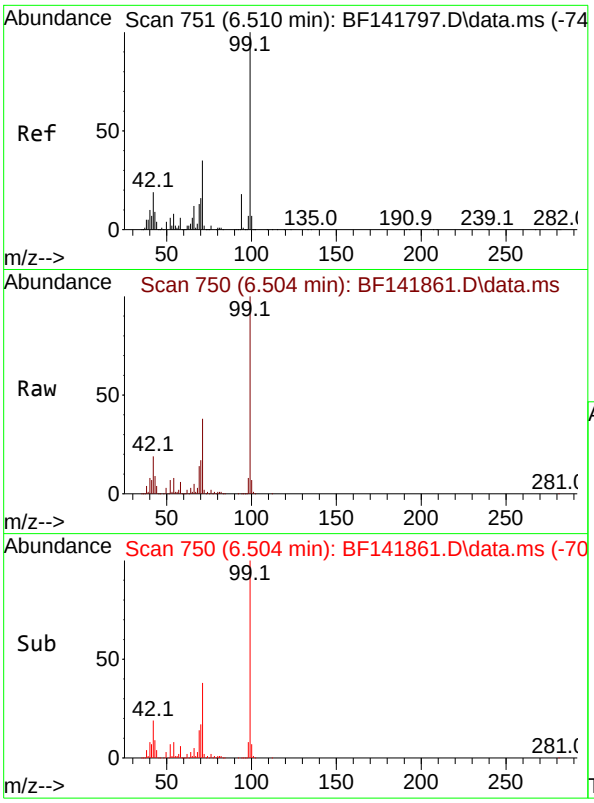


#5
2-Fluorophenol
Concen: 130.107 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:112 Resp: 1727468

Ion	Ratio	Lower	Upper
112	100		
64	60.7	51.3	76.9
63	32.3	26.2	39.4



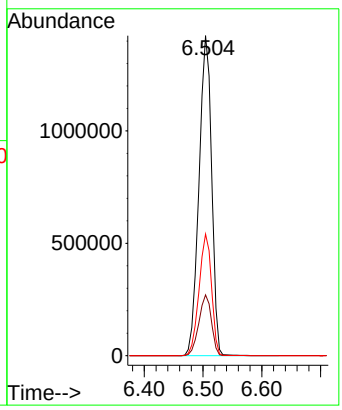


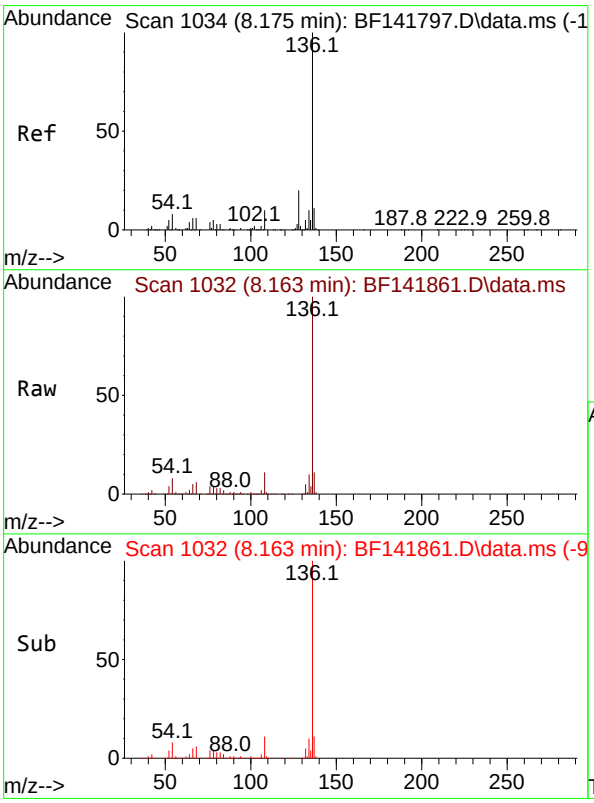
#7
Phenol-d6
Concen: 123.079 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion: 99 Resp: 2126999

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	38.0	28.2	42.2

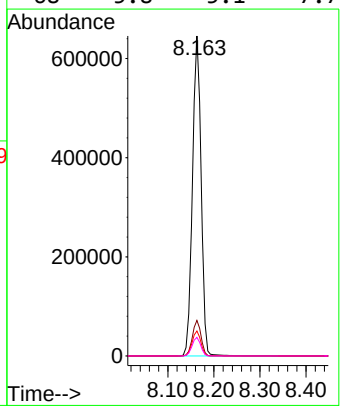


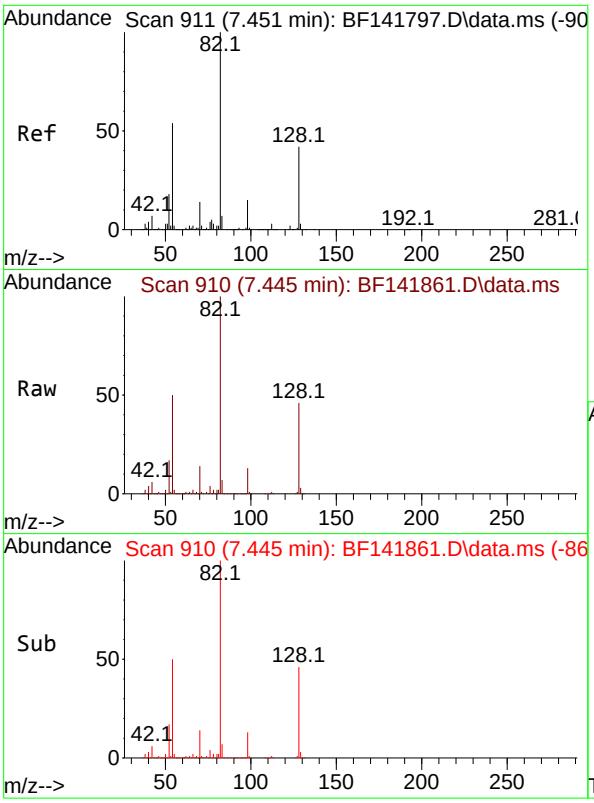


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:136 Resp: 840031

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	6.9	10.3
68	5.8	5.1	7.7



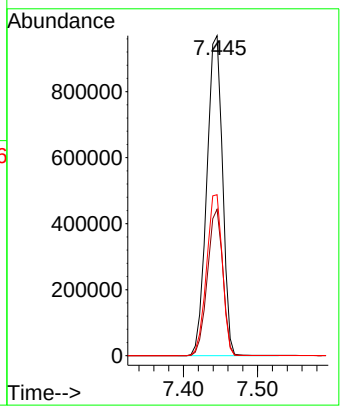


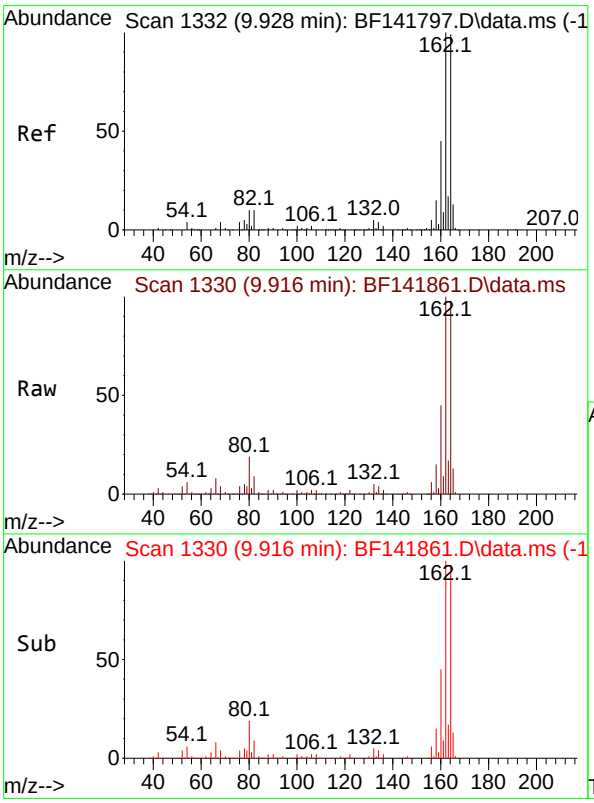
#23
Nitrobenzene-d5
Concen: 108.662 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion: 82 Resp: 1428020

Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.5	50.3
54	50.3	42.7	64.1

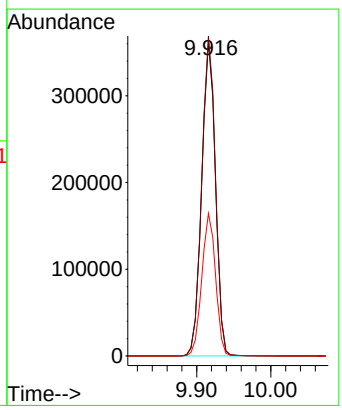


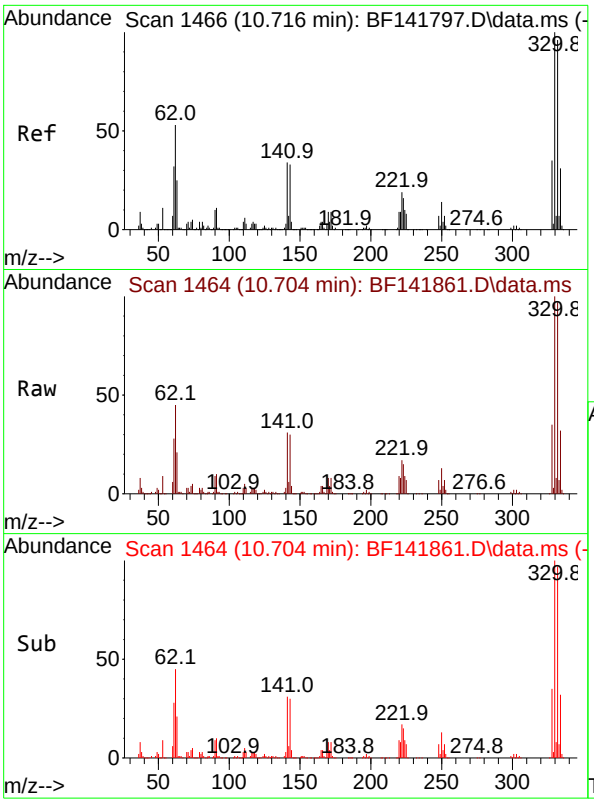


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:164 Resp: 466101

Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.6	120.8
160	45.4	36.3	54.5



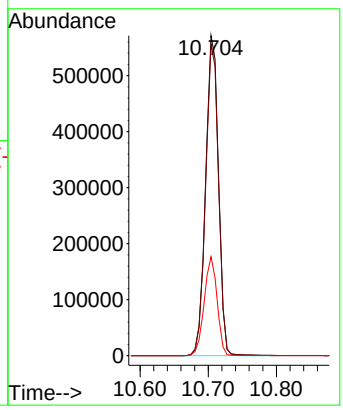


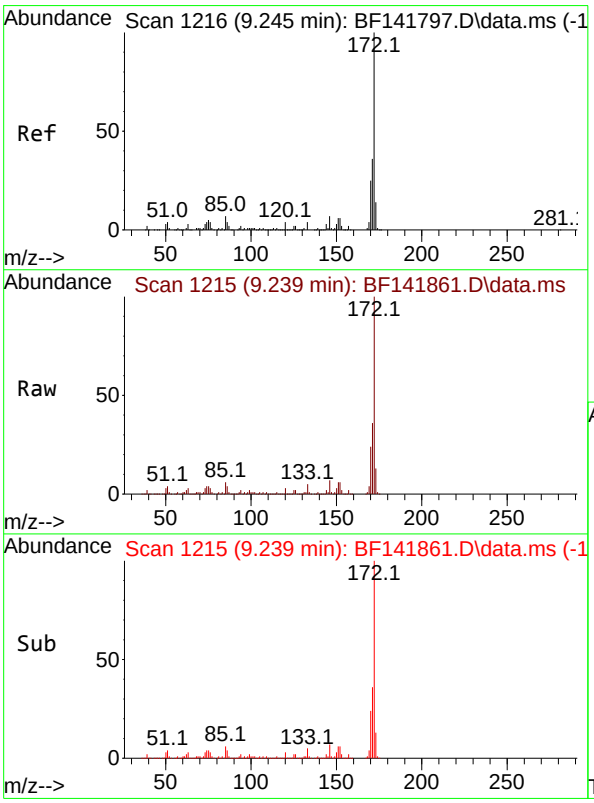
#42
2,4,6-Tribromophenol
Concen: 172.027 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:330 Resp: 752761

Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.6	115.0
141	31.0	29.0	43.4

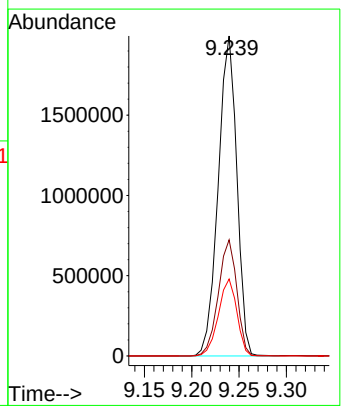


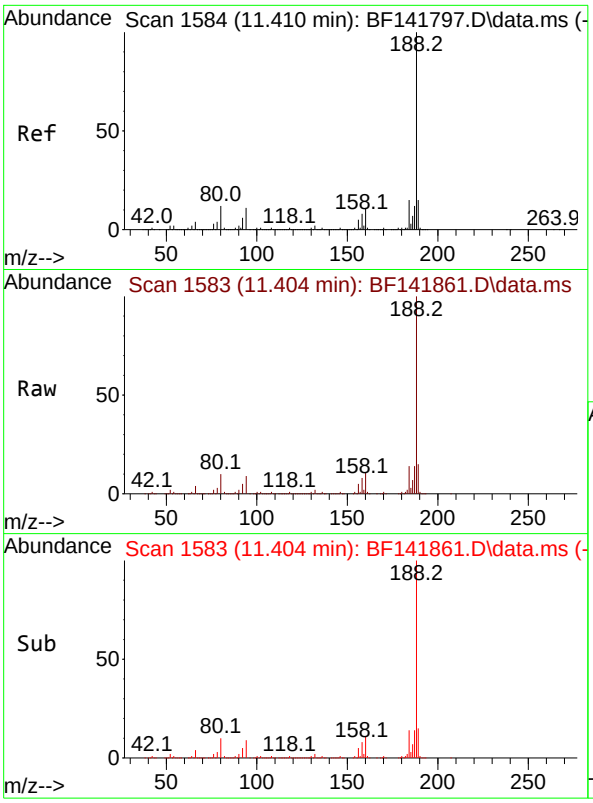


#45
2-Fluorobiphenyl
Concen: 93.933 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:172 Resp: 2730516

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	24.1	19.7	29.5



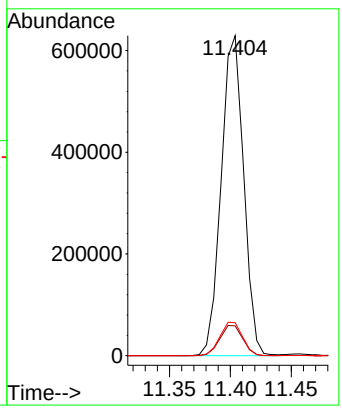


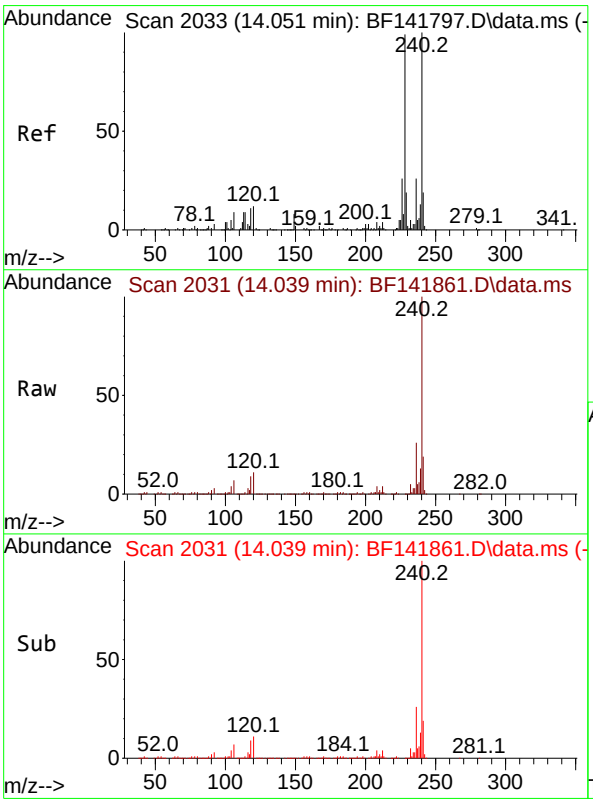
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:188 Resp: 808511

Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.9	13.3
80	10.3	9.7	14.5

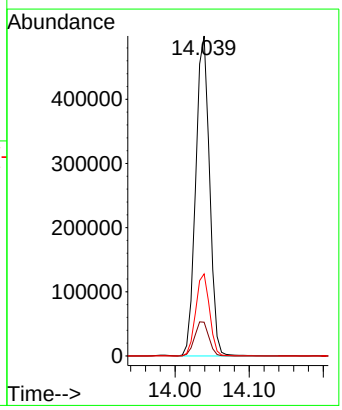


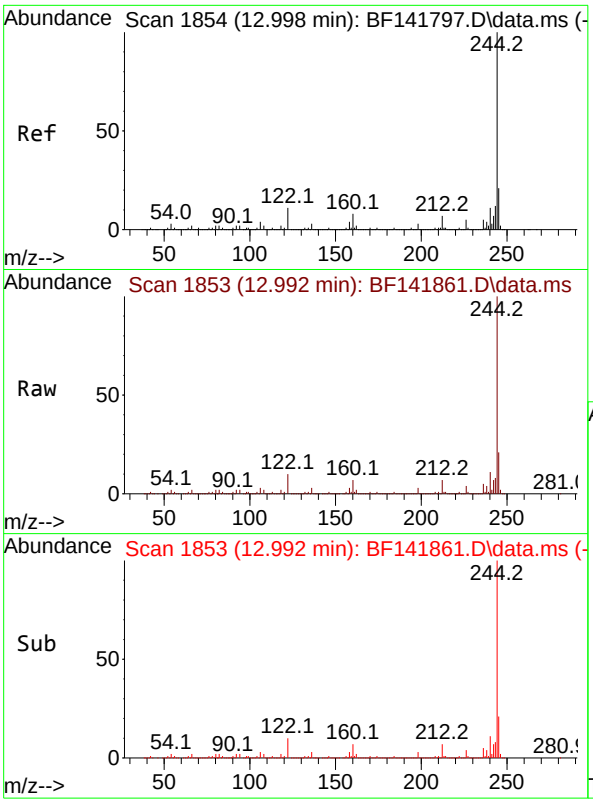


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:240 Resp: 646602

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.7	14.5
236	25.6	21.0	31.4



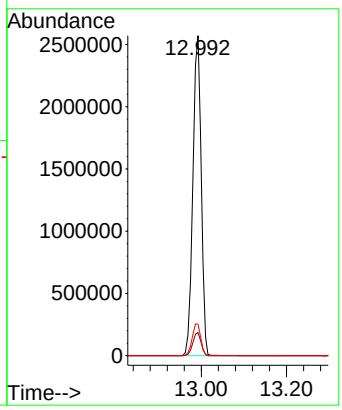


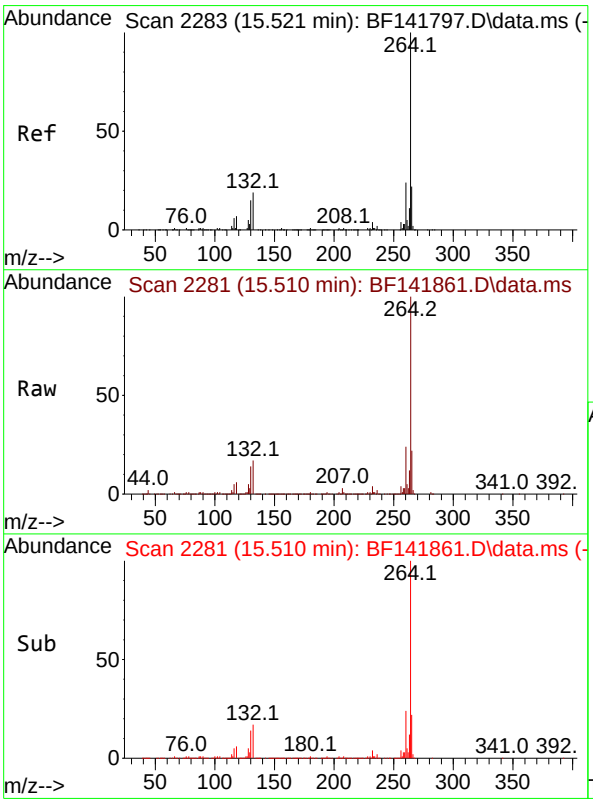
#79
Terphenyl-d14
Concen: 87.134 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion:244 Resp: 3482297

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.8	9.0	13.6

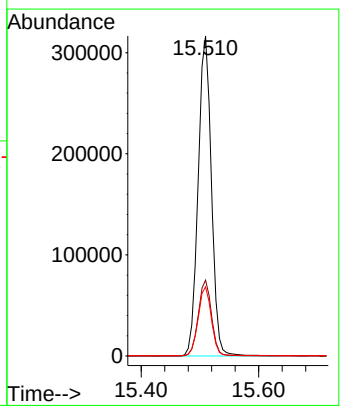




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:264 Resp: 495069

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.6	17.4	26.0



Sample Results: **BF141861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141861.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	16	26	32	rVB	55435	102945	1.11%	0.208%
2	5.510	574	581	586	rBV	4362587	6158250	66.30%	12.413%
3	6.504	743	750	755	rBV	4124259	6130832	66.00%	12.358%
4	6.887	809	815	820	rBV	1012818	1272257	13.70%	2.565%
5	7.445	903	910	915	rBV	2856844	4193404	45.14%	8.453%
6	8.163	1026	1032	1037	rBV	1313313	1694537	18.24%	3.416%
7	9.239	1208	1215	1220	rBV	5935221	8109581	87.30%	16.347%
8	9.916	1324	1330	1343	rBV	1547614	1993087	21.46%	4.018%
9	10.704	1457	1464	1469	rBV	4189751	5504064	59.25%	11.095%
10	11.404	1577	1583	1588	rBV	1582941	2040421	21.97%	4.113%
11	12.992	1846	1853	1858	rBV	6829406	9289114	100.00%	18.724%
12	14.039	2025	2031	2036	rBV	1339299	1749387	18.83%	3.526%
13	15.510	2274	2281	2297	rBV	850460	1372181	14.77%	2.766%

Sum of corrected areas: 49610060

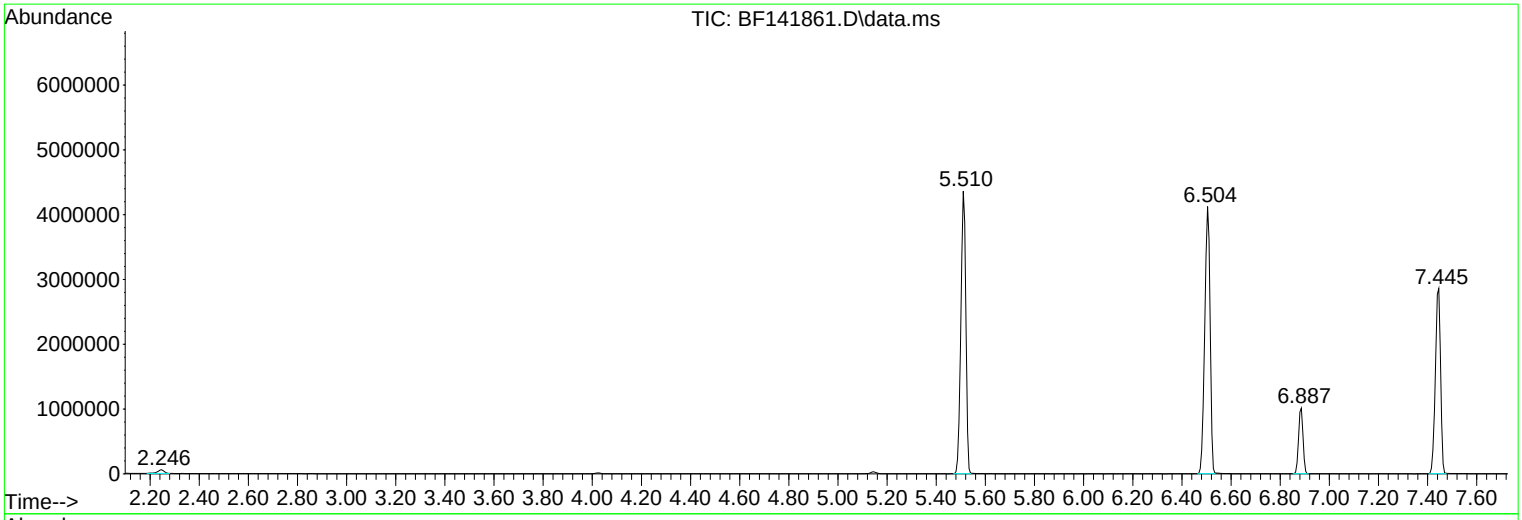
Sample Results: **BF141861.D**

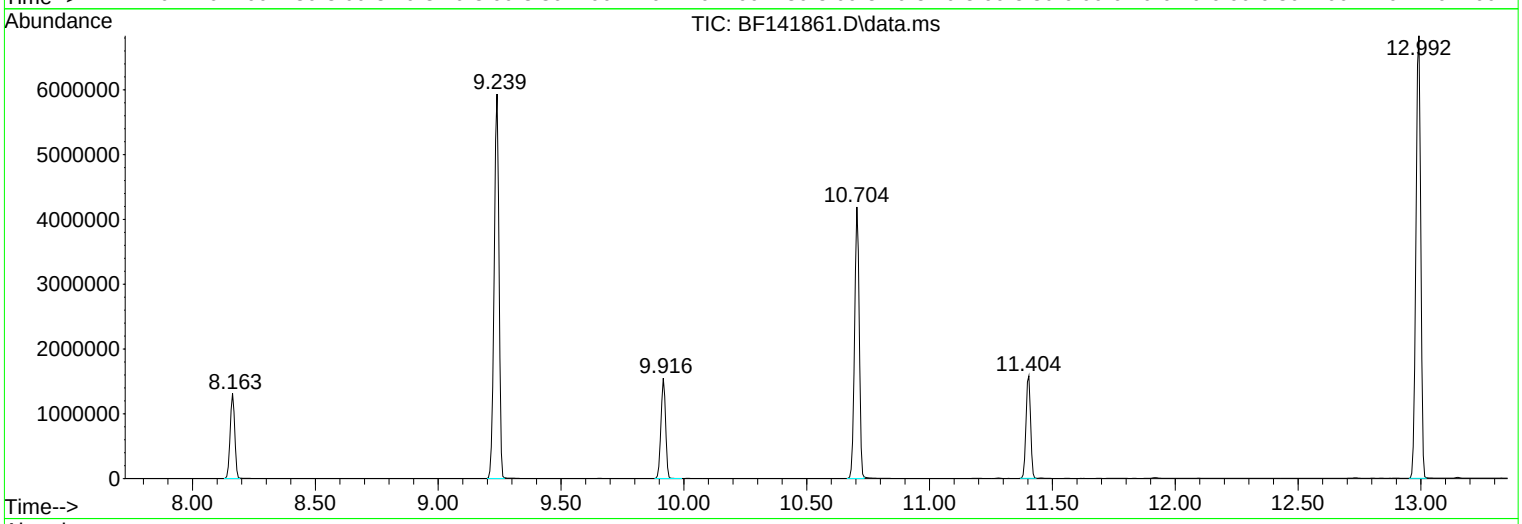
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

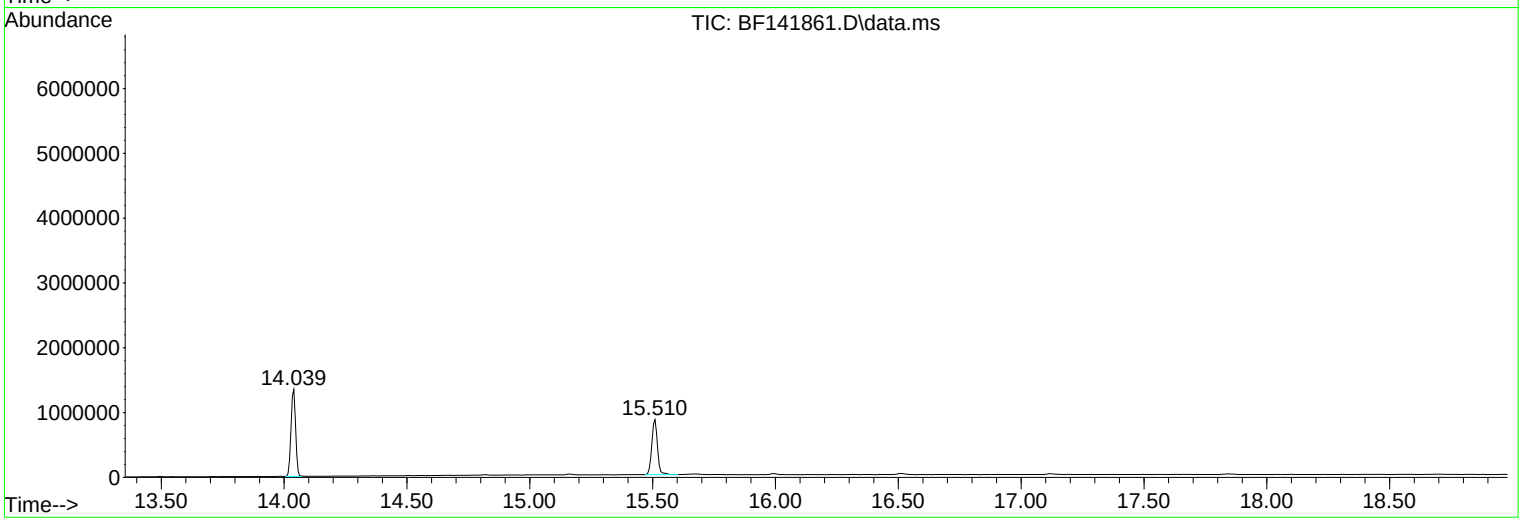
Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

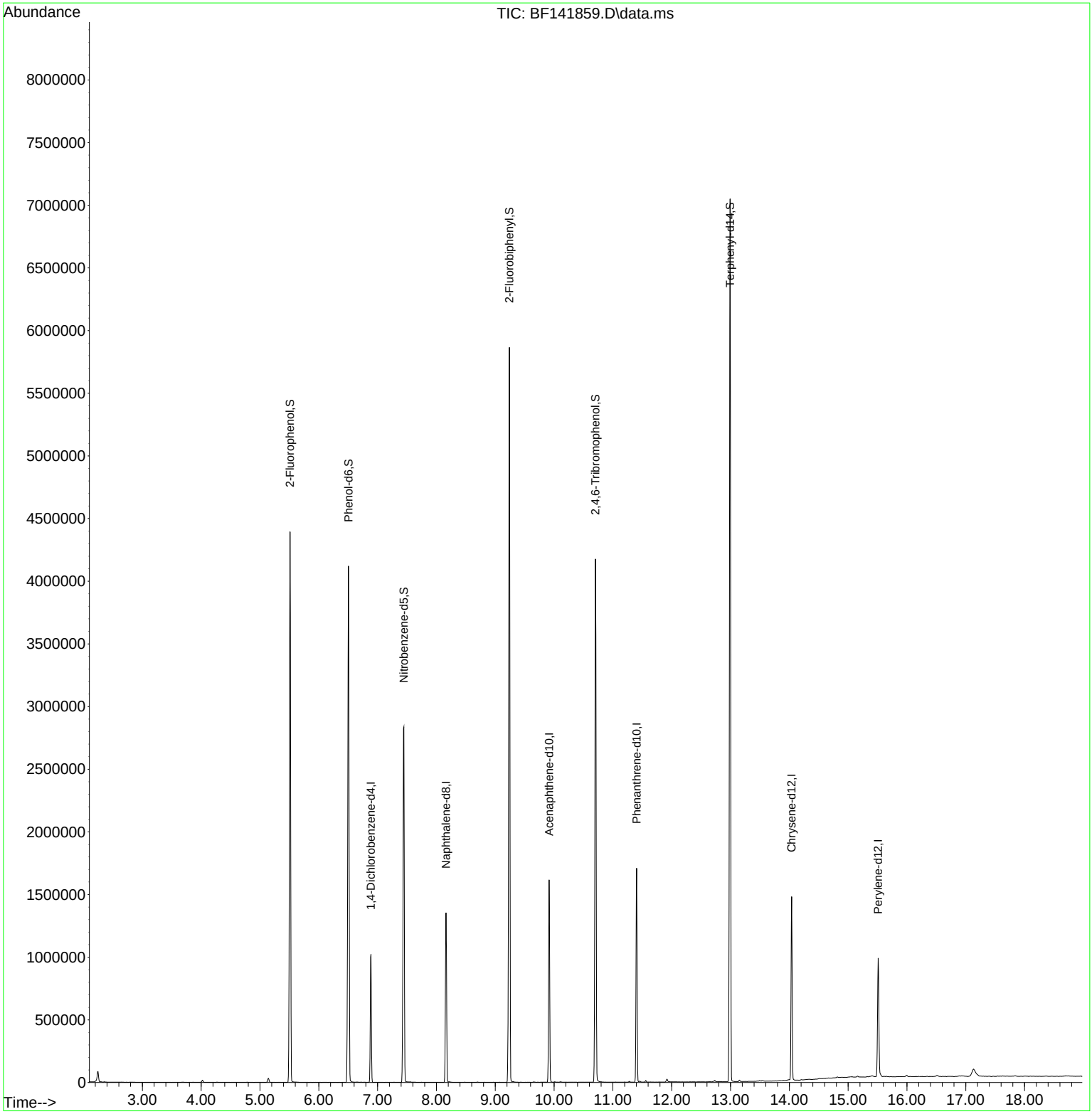
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	218862	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	871720	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	477596	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	848035	20.000	ng	0.00
76) Chrysene-d12	14.039	240	691946	20.000	ng	-0.01
86) Perylene-d12	15.510	264	552165	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1730529	126.273	ng	0.01
7) Phenol-d6	6.504	99	2123556	119.048	ng	0.00
23) Nitrobenzene-d5	7.445	82	1433035	105.079	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	746687	166.531	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2725247	91.496	ng	0.00
79) Terphenyl-d14	12.992	244	3529158	82.519	ng	0.00
Target Compounds						Qvalue

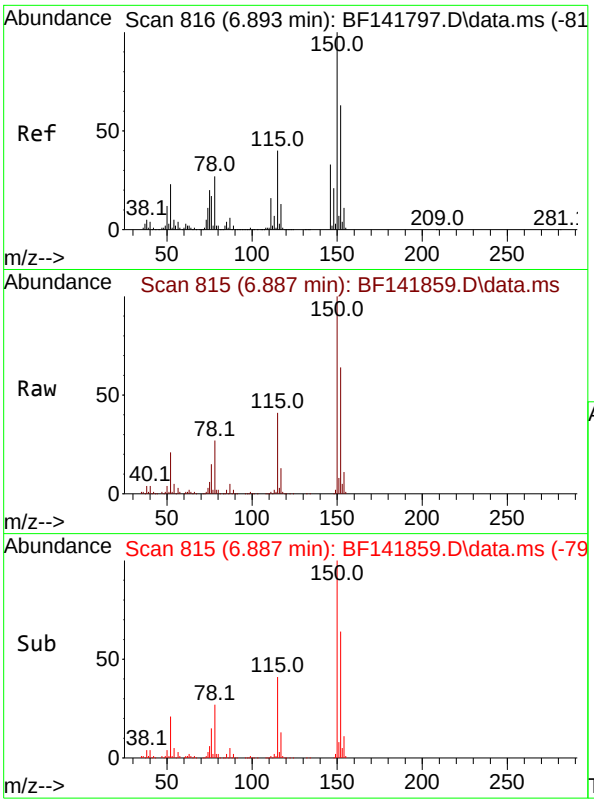
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



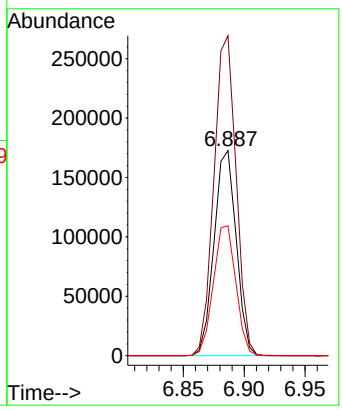


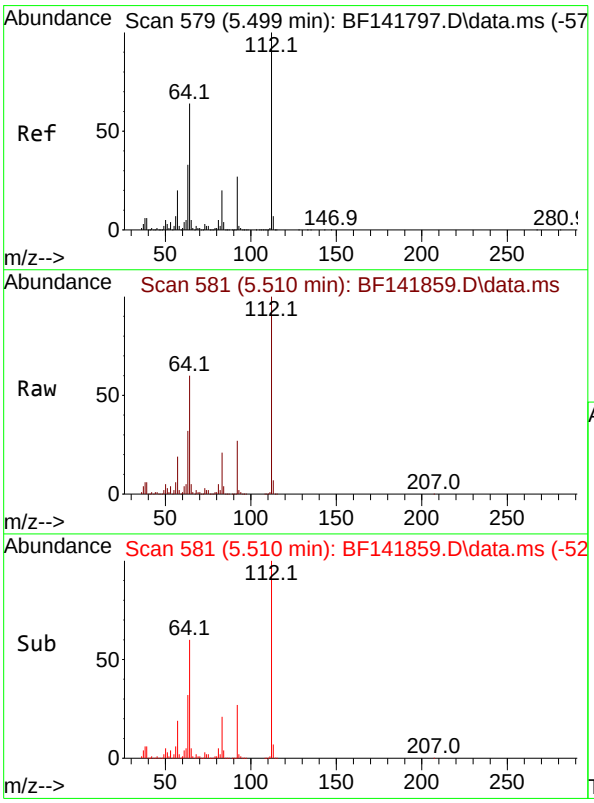
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:152 Resp: 218862

Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.5	191.3
115	63.3	51.4	77.2

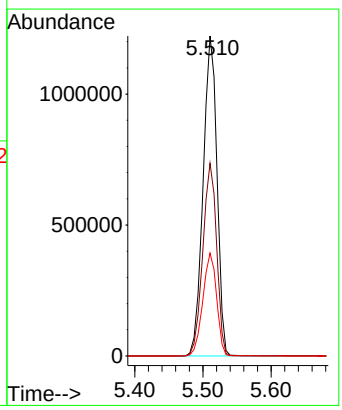


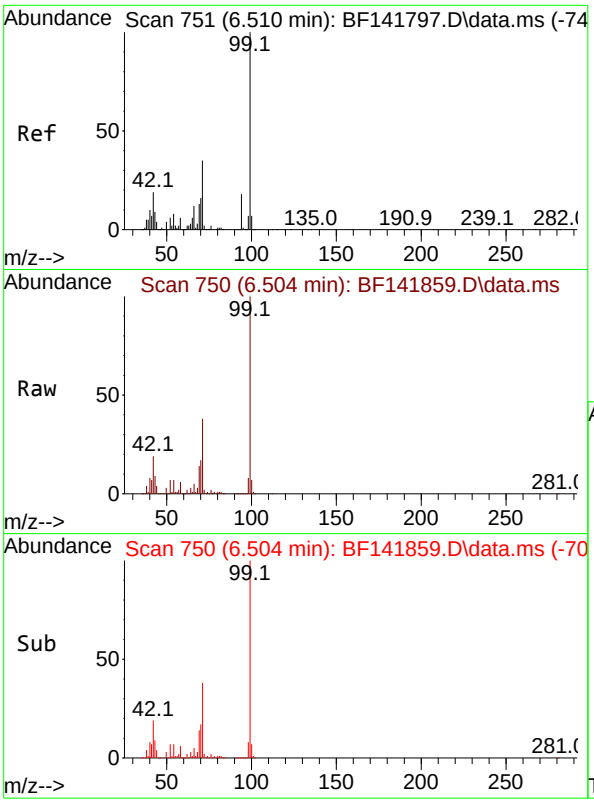


#5
2-Fluorophenol
Concen: 126.273 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:112 Resp: 1730529

Ion	Ratio	Lower	Upper
112	100		
64	60.2	51.3	76.9
63	32.2	26.2	39.4



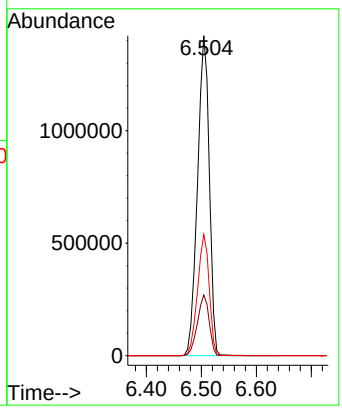


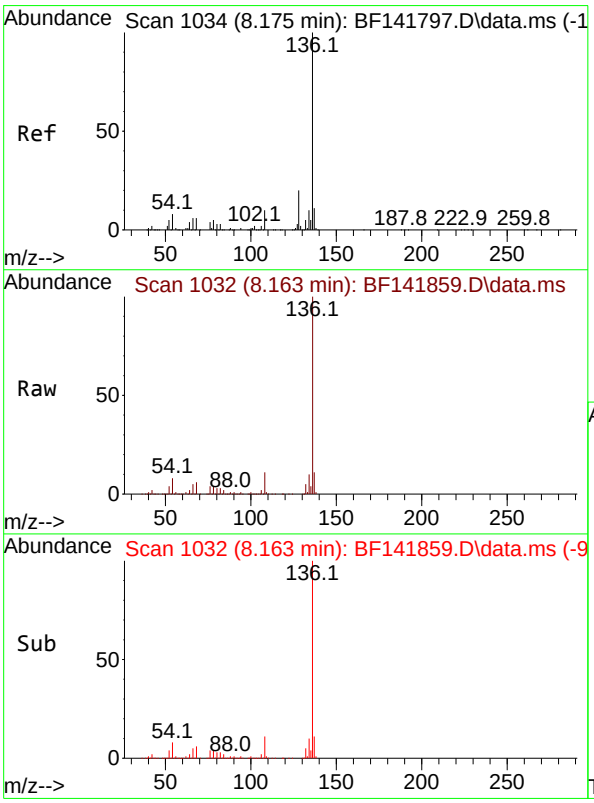
#7
Phenol-d6
Concen: 119.048 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 99 Resp: 2123556

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	37.8	28.2	42.2

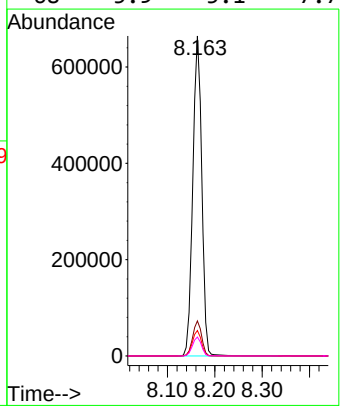


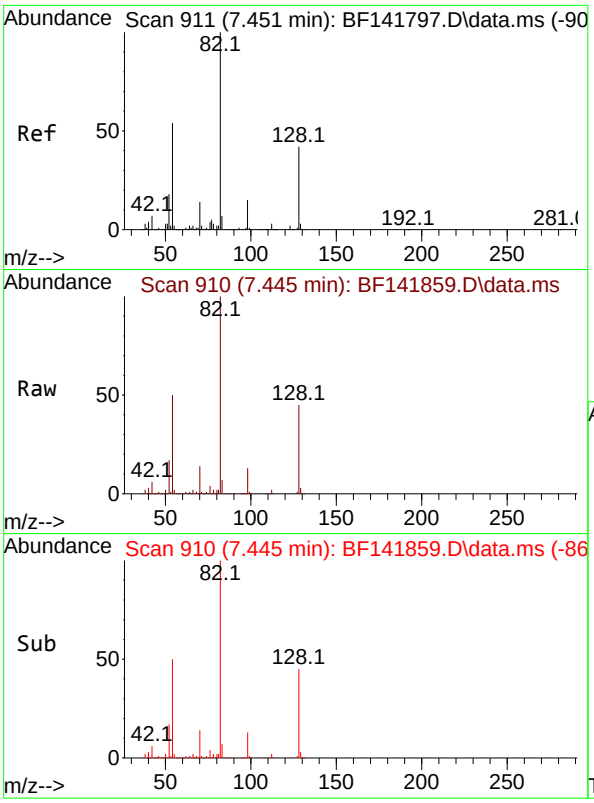


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:136 Resp: 871720

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.9	6.9	10.3
68	5.9	5.1	7.7



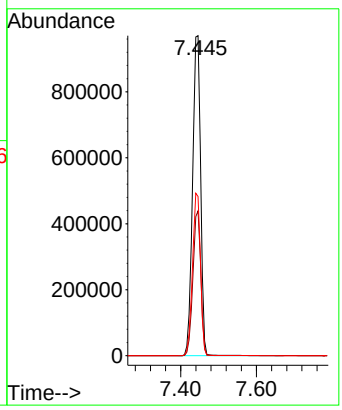


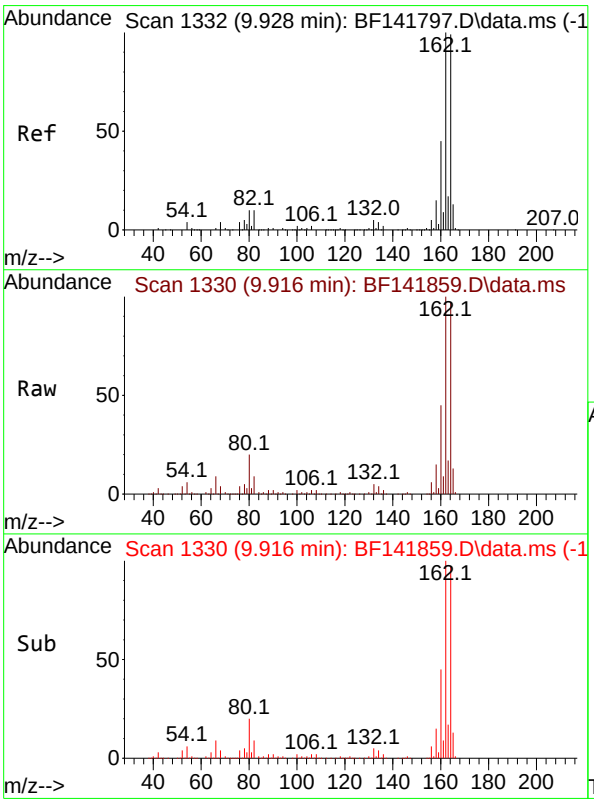
#23
Nitrobenzene-d5
Concen: 105.079 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 82 Resp: 1433035

Ion	Ratio	Lower	Upper
82	100		
128	45.3	33.5	50.3
54	49.8	42.7	64.1

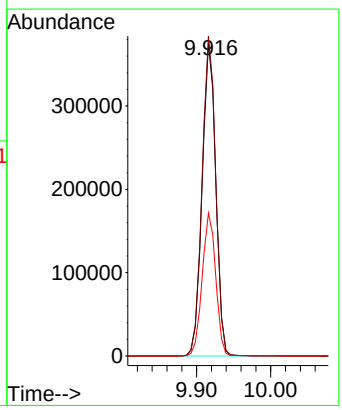


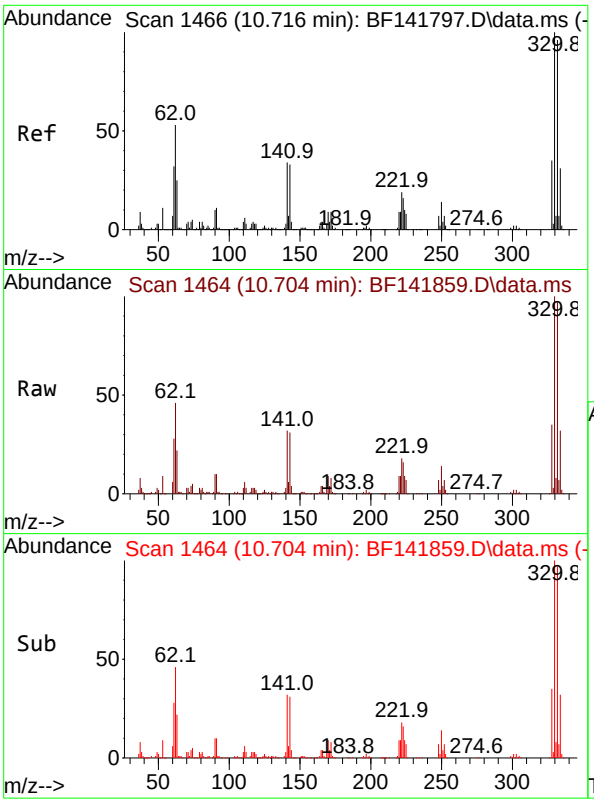


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:164 Resp: 477596

Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.6	120.8
160	45.8	36.3	54.5



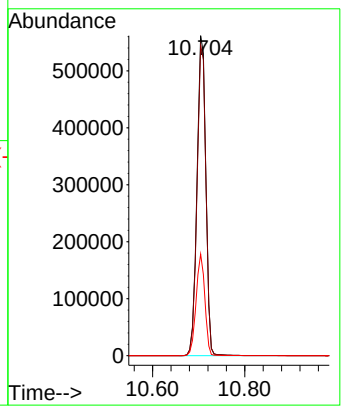


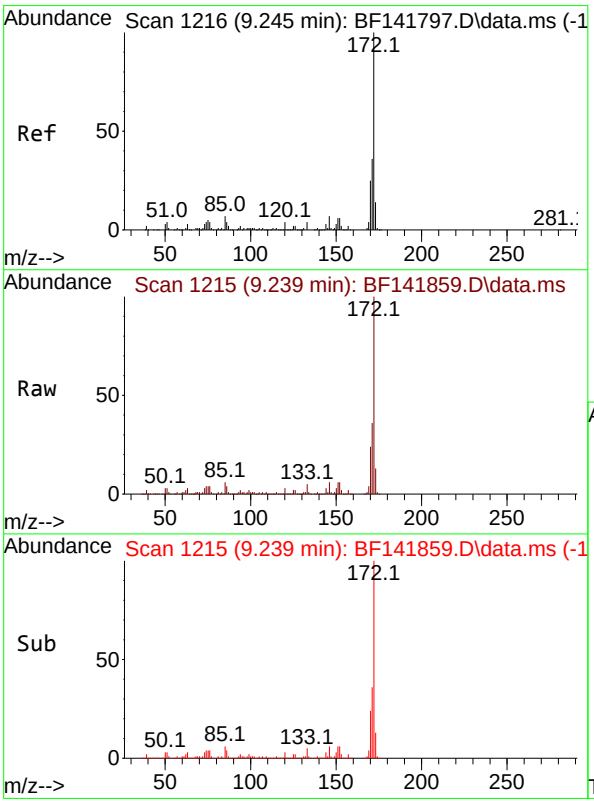
#42
2,4,6-Tribromophenol
Concen: 166.531 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:330 Resp: 746687

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	31.4	29.0	43.4

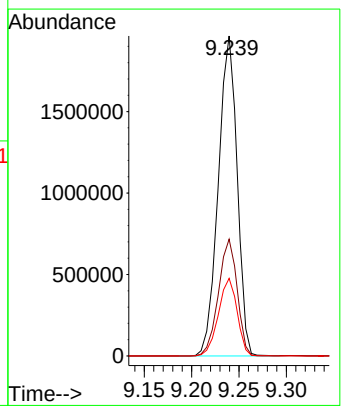


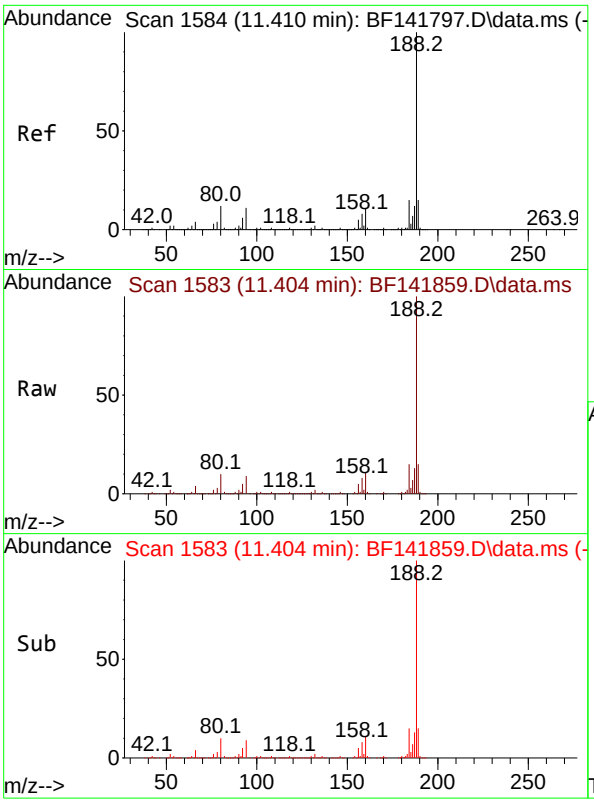


#45
2-Fluorobiphenyl
Concen: 91.496 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:172 Resp: 2725247

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.2	19.7	29.5



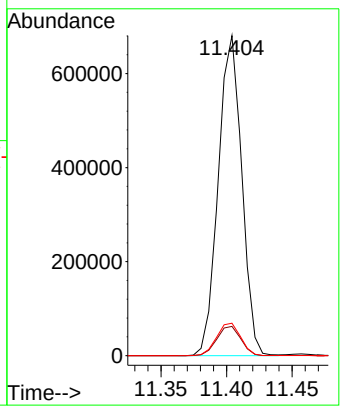


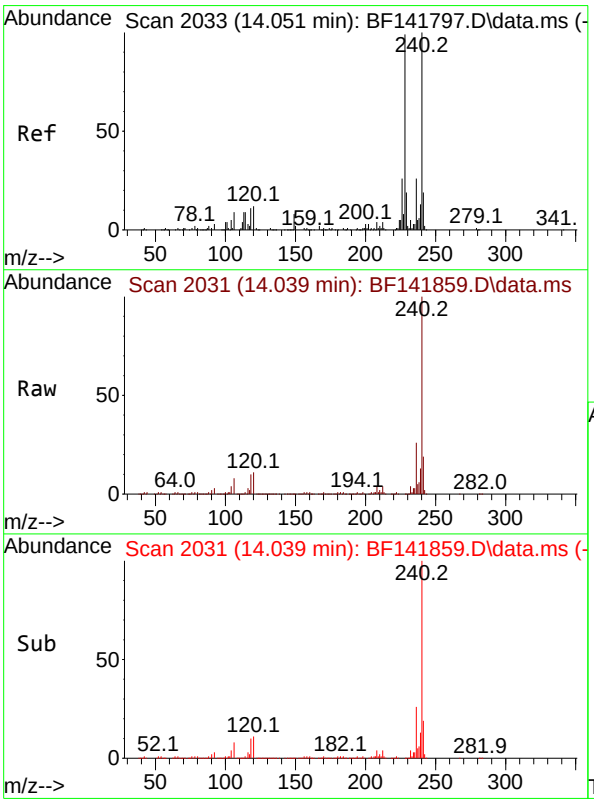
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:188 Resp: 848035

Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.1	9.7	14.5

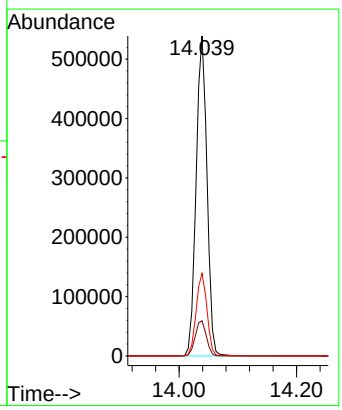


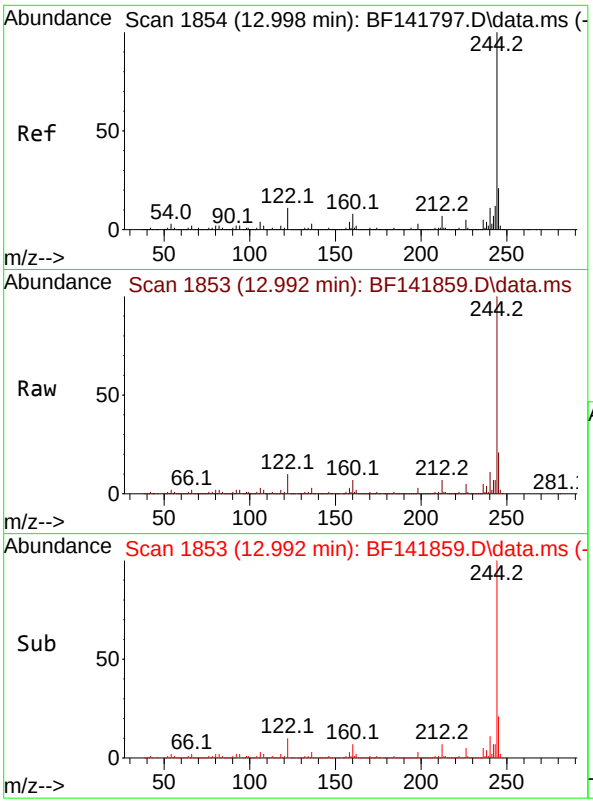


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:240 Resp: 691946

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.8	21.0	31.4



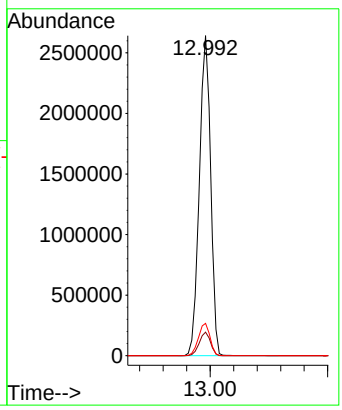


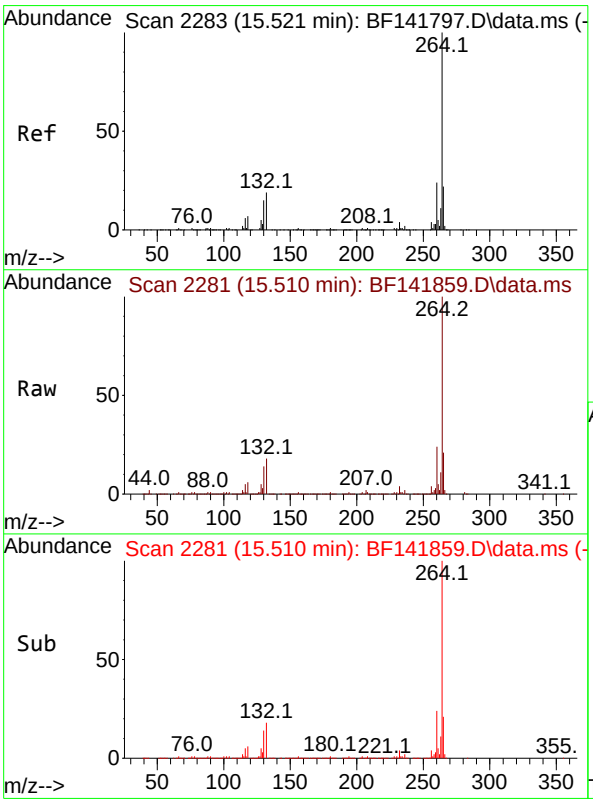
#79
Terphenyl-d14
Concen: 82.519 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:244 Resp: 3529158

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	10.1	9.0	13.6

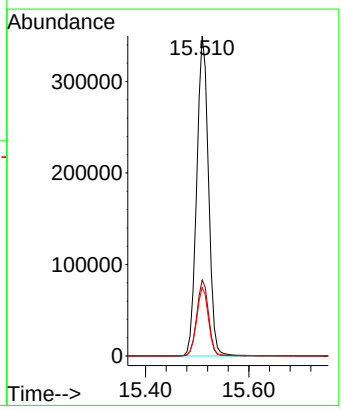




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:264 Resp: 552165

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.4	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141859.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	14	25	31	rBV	81610	149341	1.59%	0.297%
2	5.510	574	581	586	rBV	4392822	6178026	65.67%	12.282%
3	6.504	743	750	755	rBV	4119823	6120759	65.06%	12.169%
4	6.887	809	815	820	rBV	1021567	1312062	13.95%	2.609%
5	7.445	903	910	915	rBV	2836233	4167253	44.30%	8.285%
6	8.163	1026	1032	1040	rBV	1353027	1764969	18.76%	3.509%
7	9.239	1208	1215	1220	rBV	5863702	8102468	86.13%	16.108%
8	9.916	1324	1330	1341	rBV	1615098	2058136	21.88%	4.092%
9	10.704	1457	1464	1469	rBV	4174632	5509630	58.57%	10.954%
10	11.404	1577	1583	1588	rBV	1707669	2137813	22.72%	4.250%
11	12.992	1846	1853	1858	rBV	7045093	9407646	100.00%	18.703%
12	14.039	2025	2031	2041	rVB	1463852	1886443	20.05%	3.750%
13	15.510	2275	2281	2295	rVB	945753	1504913	16.00%	2.992%

Sum of corrected areas: 50299459

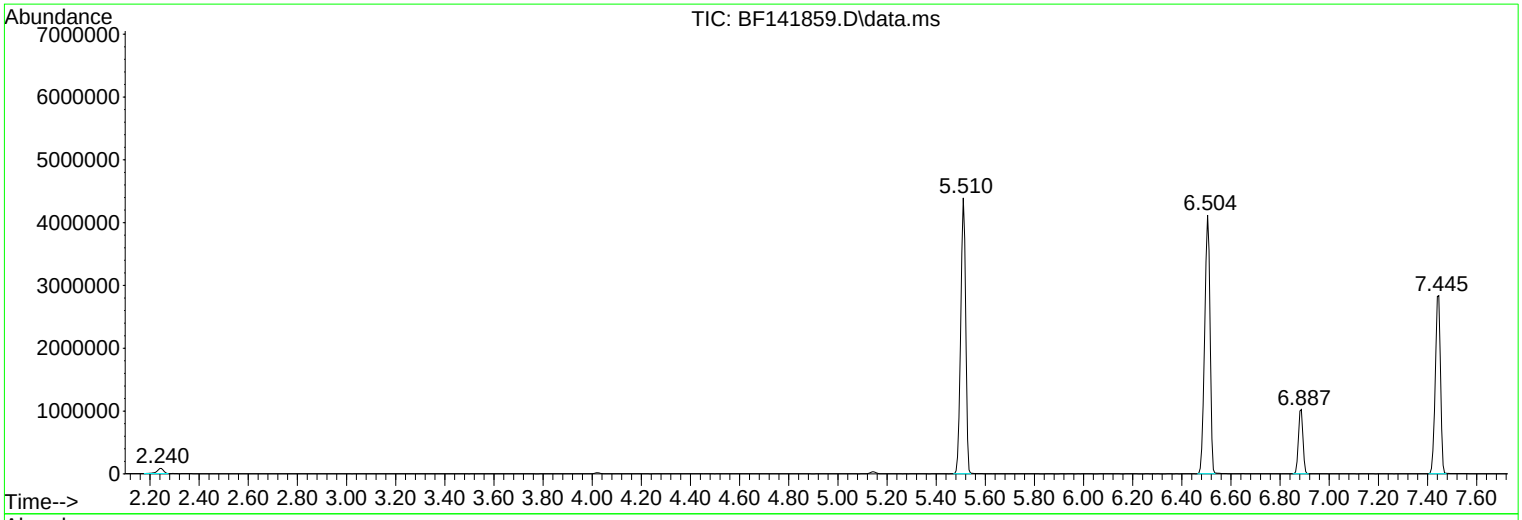
Sample Results: **BF141859.D**

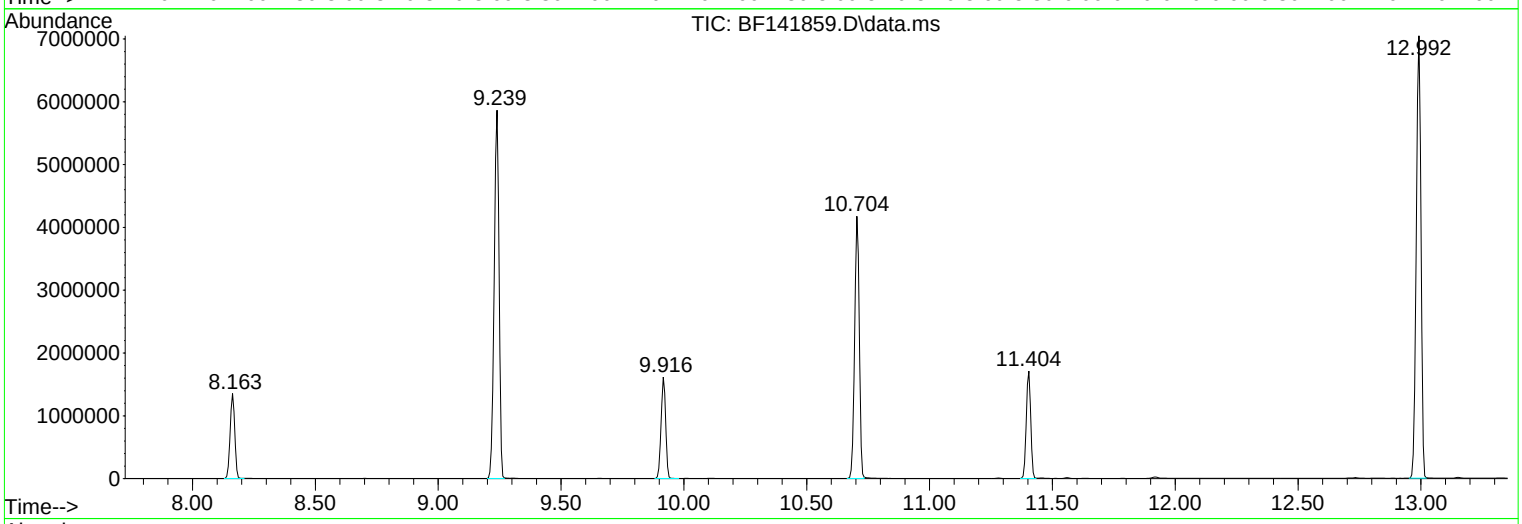
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

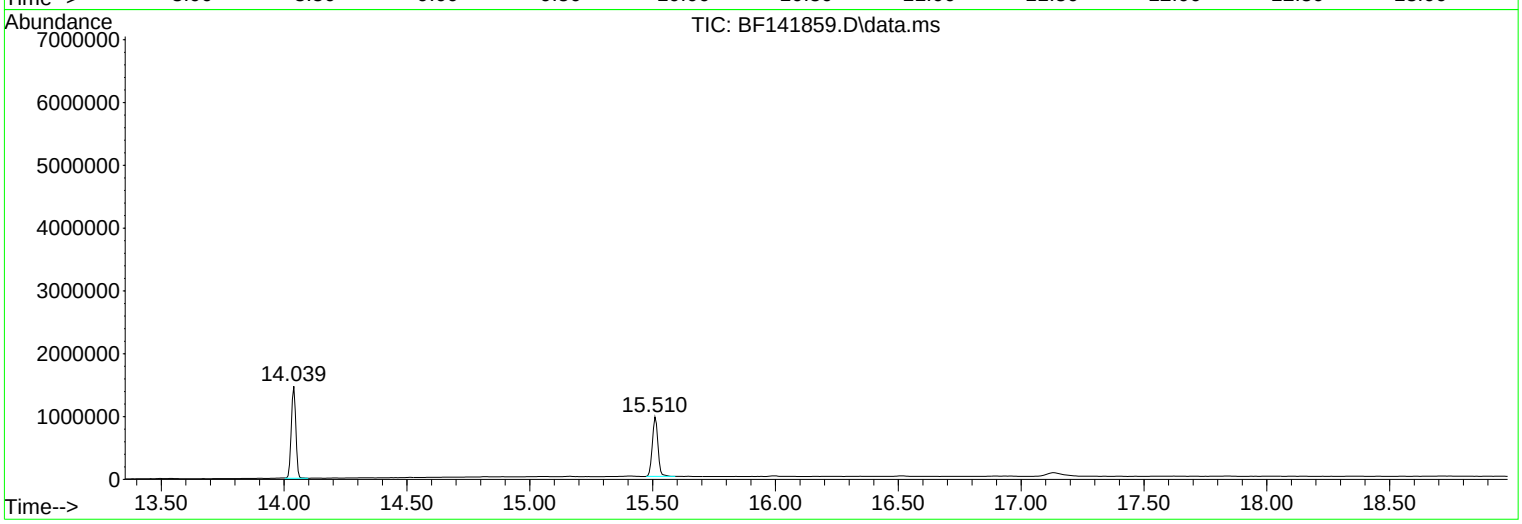
Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

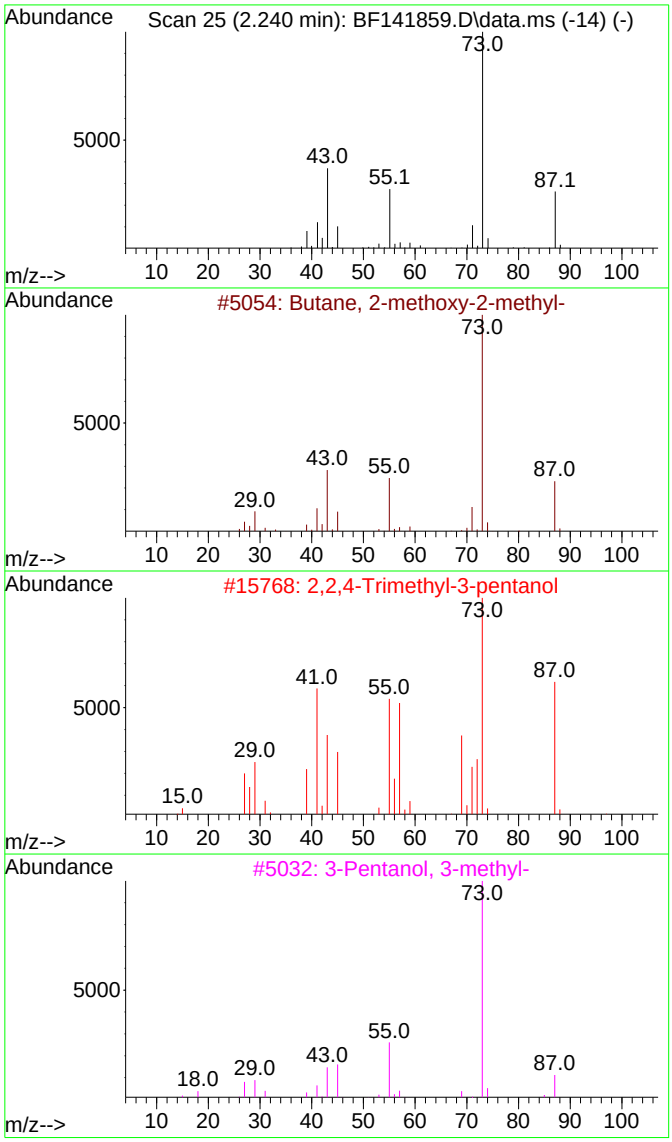
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

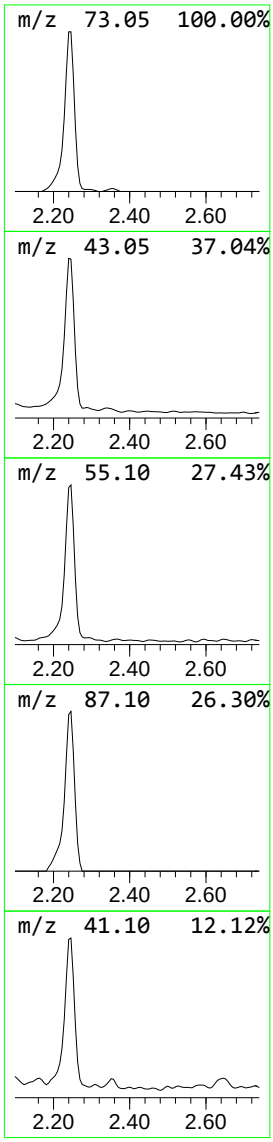
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.28 ng	149341	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	38
4	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.240	2.3	ng	149341	1	6.887	1312060	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	210095	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	832298	20.000	ng		-0.01
39) Acenaphthene-d10	9.922	164	456822	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	789268	20.000	ng		0.00
76) Chrysene-d12	14.045	240	533191	20.000	ng		0.00
86) Perylene-d12	15.510	264	432459	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1718685	130.642	ng		0.02
7) Phenol-d6	6.510	99	2131309	124.468	ng		0.00
23) Nitrobenzene-d5	7.445	82	1424866	109.429	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	757115	176.536	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2698143	94.705	ng		0.00
79) Terphenyl-d14	12.992	244	3290875	99.859	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.769	88	236649	39.644	ng		96
3) Pyridine	3.528	79	571968	38.510	ng		96
4) n-Nitrosodimethylamine	3.469	42	298504	41.770	ng	#	98
6) Aniline	6.546	93	654827	36.784	ng		99
8) 2-Chlorophenol	6.669	128	646113	45.401	ng		95
9) Benzaldehyde	6.434	77	232462	23.339	ng		99
10) Phenol	6.522	94	775445	42.379	ng		97
11) bis(2-Chloroethyl)ether	6.622	93	584519	41.908	ng		96
12) 1,3-Dichlorobenzene	6.828	146	671014	44.028	ng		100
13) 1,4-Dichlorobenzene	6.904	146	680898	44.340	ng		100
14) 1,2-Dichlorobenzene	7.057	146	656843	45.806	ng		98
15) Benzyl Alcohol	7.022	79	576121	42.099	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	771714	36.433	ng		96
17) 2-Methylphenol	7.134	107	520475	44.307	ng		99
18) Hexachloroethane	7.398	117	255823	44.509	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	446393	39.657	ng		97
20) 3+4-Methylphenols	7.281	107	638973	43.683	ng		93
22) Acetophenone	7.293	105	955429	47.133	ng		99
24) Nitrobenzene	7.463	77	682517	48.949	ng		100
25) Isophorone	7.704	82	1219271	43.587	ng		98
26) 2-Nitrophenol	7.781	139	334090	53.102	ng		97
27) 2,4-Dimethylphenol	7.810	122	564747	54.921	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	735247	41.203	ng		99
29) 2,4-Dichlorophenol	8.016	162	532866	44.919	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	579819	44.605	ng		100
31) Naphthalene	8.187	128	1846658	43.170	ng		99
32) Benzoic acid	7.928	122	455664	52.276	ng		99
33) 4-Chloroaniline	8.234	127	309388	19.726	ng		98
34) Hexachlorobutadiene	8.304	225	376266	46.581	ng		98
35) Caprolactam	8.598	113	191039m	52.349	ng		
36) 4-Chloro-3-methylphenol	8.710	107	583807	44.302	ng		98
37) 2-Methylnaphthalene	8.875	142	1173483	41.824	ng		100
38) 1-Methylnaphthalene	8.975	142	1154869	42.897	ng		100
40) 1,2,4,5-Tetrachloroben...	9.045	216	645530	48.928	ng		99
41) Hexachlorocyclopentadiene	9.034	237	868319	157.703	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	400502	46.993	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	409928	48.574	ng		98
46) 1,1'-Biphenyl	9.339	154	1666460	47.926	ng		99
47) 2-Chloronaphthalene	9.369	162	1139340	44.395	ng		99
48) 2-Nitroaniline	9.457	65	361580	51.157	ng		96
49) Acenaphthylene	9.781	152	1799062	46.755	ng		99
50) Dimethylphthalate	9.645	163	1371047	44.817	ng		100
51) 2,6-Dinitrotoluene	9.704	165	301079	51.243	ng		92
52) Acenaphthene	9.957	154	1330436	51.243	ng		99
53) 3-Nitroaniline	9.869	138	204507	33.745	ng	#	94
54) 2,4-Dinitrophenol	9.975	184	360919	116.229	ng	#	1
55) Dibenzofuran	10.128	168	1621177	42.900	ng		100
56) 4-Nitrophenol	10.028	139	551414	122.039	ng		95
57) 2,4-Dinitrotoluene	10.104	165	415457	57.376	ng		95
58) Fluorene	10.469	166	1272097	44.940	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	354982	48.365	ng		99
60) Diethylphthalate	10.345	149	1341179	43.731	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	636689	44.893	ng		99
62) 4-Nitroaniline	10.486	138	320025	61.255	ng		97
63) Azobenzene	10.622	77	1309765	40.561	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	231430	59.852	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1129867	43.596	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	409102	44.376	ng		98
68) Hexachlorobenzene	11.016	284	460465	47.300	ng		97
69) Atrazine	11.104	200	456998	64.122	ng		100
70) Pentachlorophenol	11.210	266	603121	97.683	ng		100
71) Phenanthrene	11.433	178	1919079	45.456	ng		99
72) Anthracene	11.486	178	1936157	45.759	ng		100
73) Carbazole	11.633	167	1703875	45.601	ng		100
74) Di-n-butylphthalate	11.969	149	2042563	43.126	ng		100
75) Fluoranthene	12.616	202	2010701	46.480	ng		98
77) Benzidine	12.739	184	703765	104.868	ng		100
78) Pyrene	12.851	202	2033437	44.041	ng		99
80) Butylbenzylphthalate	13.463	149	779324	46.457	ng		98
81) Benzo(a)anthracene	14.033	228	1606850	45.626	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	287502	28.453	ng		99
83) Chrysene	14.069	228	1461304	45.012	ng		100
84) Bis(2-ethylhexyl)phtha...	14.022	149	973167	46.591	ng		99
85) Di-n-octyl phthalate	14.633	149	1411858	45.149	ng		97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1400520	50.858	ng		97
88) Benzo(b)fluoranthene	15.080	252	1324873	44.975	ng		99
89) Benzo(k)fluoranthene	15.110	252	1110972	44.371	ng		99
90) Benzo(a)pyrene	15.451	252	1135461	48.062	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1121408	49.889	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1098929	47.722	ng		97

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

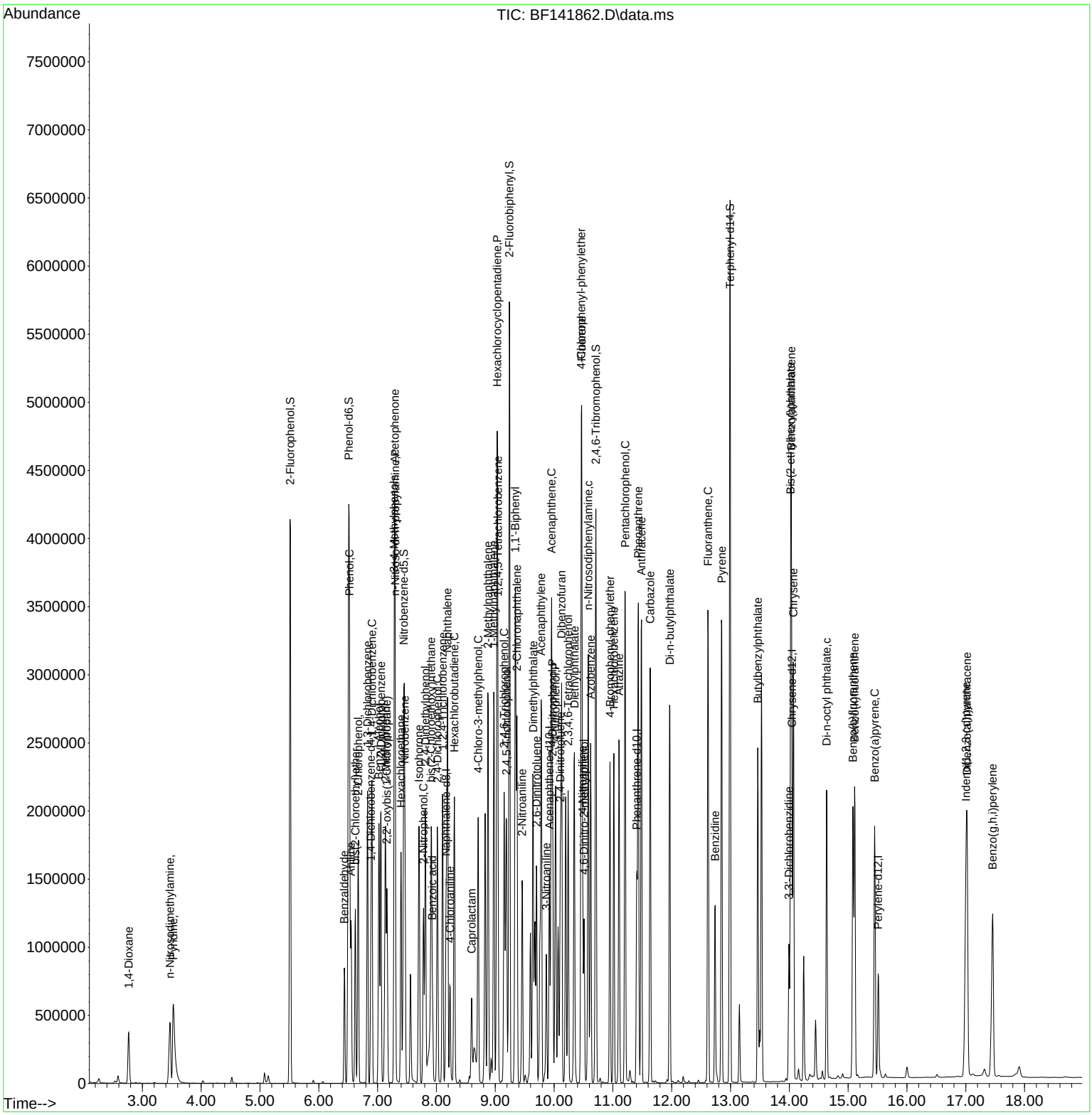
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 15:47:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	222677	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	860348	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	467040	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	801941	20.000	ng	0.00
76) Chrysene-d12	14.045	240	537472	20.000	ng	0.00
86) Perylene-d12	15.515	264	470320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1701069	121.997	ng	0.02
7) Phenol-d6	6.510	99	2108392	116.173	ng	0.00
23) Nitrobenzene-d5	7.445	82	1408232	104.625	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	725902	165.555	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2659506	91.306	ng	0.00
79) Terphenyl-d14	12.992	244	3153921	94.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	226101	35.737	ng	97
3) Pyridine	3.522	79	549854	34.929	ng	96
4) n-Nitrosodimethylamine	3.469	42	285971	37.755	ng	99
6) Aniline	6.551	93	522189	27.676	ng	99
8) 2-Chlorophenol	6.669	128	628313	41.655	ng	96
9) Benzaldehyde	6.434	77	225786	21.388	ng	99
10) Phenol	6.522	94	741067	38.212	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	565937	38.283	ng	96
12) 1,3-Dichlorobenzene	6.828	146	656353	40.633	ng	99
13) 1,4-Dichlorobenzene	6.904	146	663658	40.775	ng	99
14) 1,2-Dichlorobenzene	7.057	146	641692	42.221	ng	99
15) Benzyl Alcohol	7.022	79	556826	38.390	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	756011	33.675	ng	96
17) 2-Methylphenol	7.134	107	501492	40.279	ng	98
18) Hexachloroethane	7.398	117	250476	41.116	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	427099	35.799	ng	98
20) 3+4-Methylphenols	7.281	107	621360	40.079	ng	94
22) Acetophenone	7.292	105	924853	44.138	ng	99
24) Nitrobenzene	7.463	77	656445	45.544	ng	100
25) Isophorone	7.704	82	1189358	41.131	ng	99
26) 2-Nitrophenol	7.781	139	317830	49.233	ng	98
27) 2,4-Dimethylphenol	7.810	122	545219	51.293	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	709782	38.479	ng	99
29) 2,4-Dichlorophenol	8.016	162	509337	41.536	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	565708	42.101	ng	99
31) Naphthalene	8.187	128	1798156	40.665	ng	99
32) Benzoic acid	7.928	122	436083	48.969	ng	98
33) 4-Chloroaniline	8.228	127	196072	12.093	ng	98
34) Hexachlorobutadiene	8.304	225	363439	43.526	ng	99
35) Caprolactam	8.598	113	181228m	48.041	ng	
36) 4-Chloro-3-methylphenol	8.710	107	555267	40.762	ng	97
37) 2-Methylnaphthalene	8.881	142	1136178	39.174	ng	100
38) 1-Methylnaphthalene	8.981	142	1106172	39.748	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	621149	46.050	ng	99
41) Hexachlorocyclopentadiene	9.034	237	830196	147.481	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	381567	43.792	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	393469	45.604	ng		98
46) 1,1'-Biphenyl	9.345	154	1611215	45.323	ng		98
47) 2-Chloronaphthalene	9.369	162	1098889	41.882	ng		99
48) 2-Nitroaniline	9.457	65	341789	47.626	ng		97
49) Acenaphthylene	9.786	152	1713470	43.557	ng		99
50) Dimethylphthalate	9.645	163	1313815	42.006	ng		99
51) 2,6-Dinitrotoluene	9.704	165	288768	48.247	ng		92
52) Acenaphthene	9.957	154	1266215	47.702	ng		99
53) 3-Nitroaniline	9.869	138	153204	25.520	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	346122	111.084	ng	#	1
55) Dibenzofuran	10.128	168	1544243	39.970	ng		99
56) 4-Nitrophenol	10.028	139	525883	113.842	ng		95
57) 2,4-Dinitrotoluene	10.104	165	401637	54.446	ng		95
58) Fluorene	10.469	166	1226351	42.376	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.239	232	338195	45.070	ng		98
60) Diethylphthalate	10.345	149	1281425	40.869	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	612702	42.256	ng		99
62) 4-Nitroaniline	10.486	138	293220	54.897	ng		97
63) Azobenzene	10.622	77	1253041	37.955	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	220801	56.697	ng		93
66) n-Nitrosodiphenylamine	10.581	169	1071992	40.709	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	391710	41.818	ng		98
68) Hexachlorobenzene	11.016	284	432837	43.759	ng		99
69) Atrazine	11.104	200	433249	59.829	ng		100
70) Pentachlorophenol	11.210	266	574113	91.516	ng		100
71) Phenanthrene	11.433	178	1812700	42.258	ng		100
72) Anthracene	11.486	178	1854922	43.146	ng		99
73) Carbazole	11.633	167	1634694	43.058	ng		100
74) Di-n-butylphthalate	11.969	149	1951706	40.557	ng		100
75) Fluoranthene	12.616	202	1922924	43.749	ng		98
77) Benzidine	12.733	184	493167	72.902	ng		100
78) Pyrene	12.845	202	1941461	41.714	ng		100
80) Butylbenzylphthalate	13.463	149	730230	43.184	ng		99
81) Benzo(a)anthracene	14.033	228	1506856	42.445	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	219648	21.565	ng		99
83) Chrysene	14.069	228	1403466	42.886	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	932426	44.285	ng		100
85) Di-n-octyl phthalate	14.633	149	1360035	43.146	ng		97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1416313	47.292	ng		97
88) Benzo(b)fluoranthene	15.080	252	1297204	40.491	ng		99
89) Benzo(k)fluoranthene	15.110	252	1099133	40.365	ng		99
90) Benzo(a)pyrene	15.451	252	1136844	44.247	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	1137230	46.521	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1105086	44.126	ng		97

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

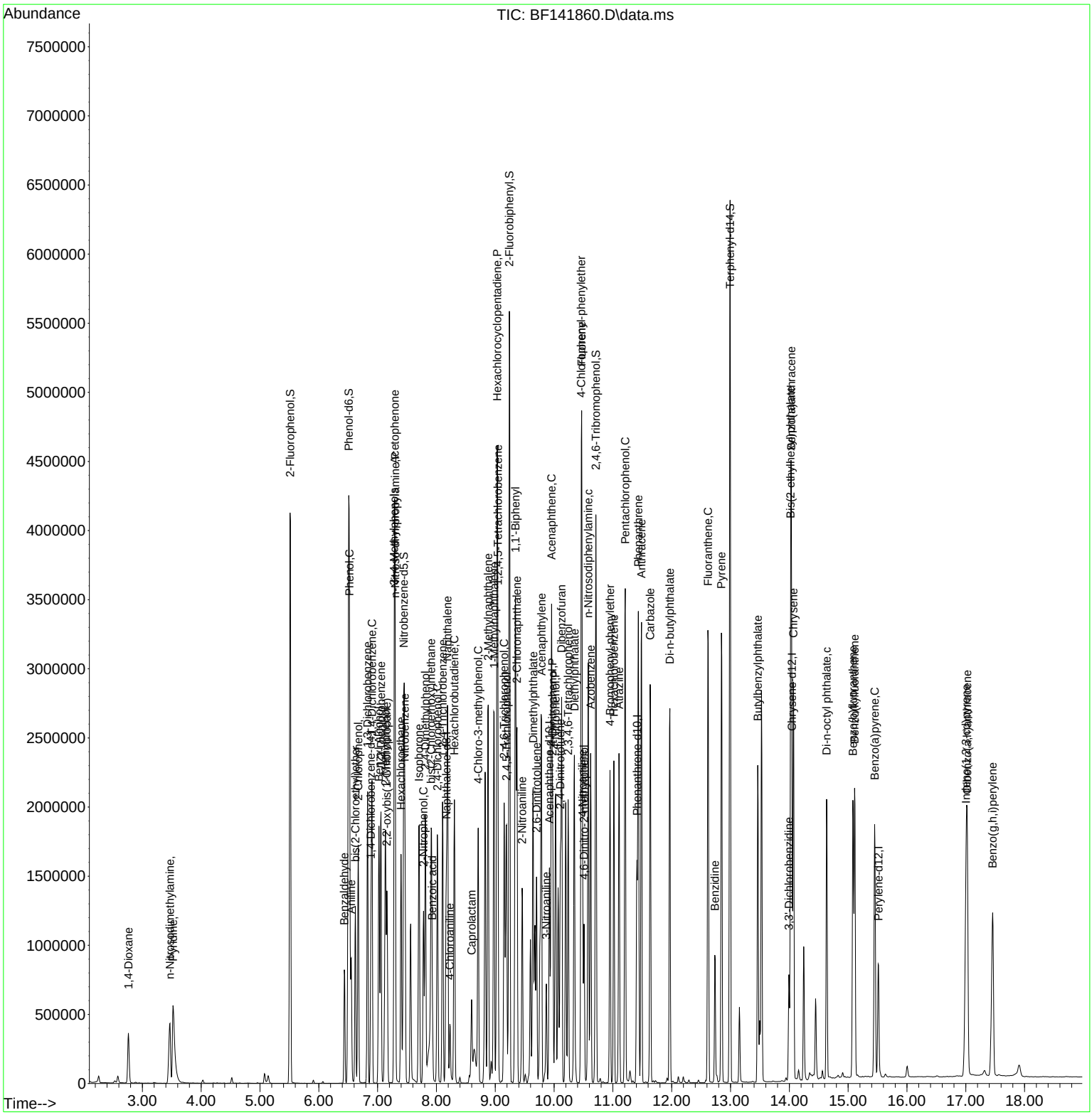
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	218542	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	850562	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	458462	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	790298	20.000	ng		0.00
76) Chrysene-d12	14.045	240	569230	20.000	ng		0.00
86) Perylene-d12	15.516	264	468514	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1752700	128.078	ng		0.02
7) Phenol-d6	6.510	99	2176919	122.218	ng		0.00
23) Nitrobenzene-d5	7.445	82	1444229	108.534	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	749833	174.213	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2687024	93.977	ng		0.00
79) Terphenyl-d14	12.992	244	3345532	95.090	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.799	88	245824	39.589	ng		96
3) Pyridine	3.552	79	597312	38.662	ng		96
4) n-Nitrosodimethylamine	3.499	42	308594	41.513	ng	#	98
6) Aniline	6.546	93	674037	36.400	ng		100
8) 2-Chlorophenol	6.669	128	662613	44.760	ng		95
9) Benzaldehyde	6.434	77	238789	23.047	ng		100
10) Phenol	6.522	94	792480	41.636	ng		96
11) bis(2-Chloroethyl)ether	6.622	93	596528	41.116	ng		97
12) 1,3-Dichlorobenzene	6.828	146	691448	43.615	ng		99
13) 1,4-Dichlorobenzene	6.904	146	705397	44.160	ng		99
14) 1,2-Dichlorobenzene	7.057	146	671122	44.993	ng		99
15) Benzyl Alcohol	7.022	79	591716	41.567	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	773514	35.106	ng		96
17) 2-Methylphenol	7.134	107	527893	43.202	ng		99
18) Hexachloroethane	7.398	117	267400	44.725	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	450272	38.456	ng		98
20) 3+4-Methylphenols	7.281	107	650789	42.771	ng		94
22) Acetophenone	7.293	105	970026	46.826	ng		99
24) Nitrobenzene	7.463	77	690687	48.471	ng		100
25) Isophorone	7.704	82	1232538	43.115	ng		98
26) 2-Nitrophenol	7.781	139	343487	53.396	ng		97
27) 2,4-Dimethylphenol	7.810	122	566807	53.938	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	731505	40.113	ng		100
29) 2,4-Dichlorophenol	8.016	162	540126	44.554	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	590826	44.476	ng		99
31) Naphthalene	8.187	128	1884687	43.113	ng		99
32) Benzoic acid	7.934	122	460651	51.796	ng		98
33) 4-Chloroaniline	8.234	127	321805	20.077	ng		98
34) Hexachlorobutadiene	8.304	225	384615	46.592	ng		98
35) Caprolactam	8.598	113	188248m	50.476	ng		
36) 4-Chloro-3-methylphenol	8.710	107	591369	43.912	ng		98
37) 2-Methylnaphthalene	8.881	142	1181958	41.221	ng		99
38) 1-Methylnaphthalene	8.975	142	1150355	41.811	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	651413	49.197	ng		99
41) Hexachlorocyclopentadiene	9.034	237	859046	155.461	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	401927	46.992	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	413188	48.786	ng		98
46) 1,1'-Biphenyl	9.339	154	1676041	48.029	ng		99
47) 2-Chloronaphthalene	9.369	162	1141918	44.336	ng		99
48) 2-Nitroaniline	9.457	65	364440	51.359	ng		97
49) Acenaphthylene	9.781	152	1786900	46.273	ng		99
50) Dimethylphthalate	9.639	163	1369183	44.596	ng		100
51) 2,6-Dinitrotoluene	9.704	165	304076	51.550	ng		92
52) Acenaphthene	9.957	154	1328050	50.968	ng		99
53) 3-Nitroaniline	9.869	138	211617	34.701	ng	#	93
54) 2,4-Dinitrophenol	9.975	184	367510	117.425	ng	#	1
55) Dibenzofuran	10.128	168	1607693	42.391	ng		100
56) 4-Nitrophenol	10.028	139	553259	122.009	ng		95
57) 2,4-Dinitrotoluene	10.104	165	417704	57.474	ng		96
58) Fluorene	10.469	166	1265412	44.544	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	358697	48.696	ng		99
60) Diethylphthalate	10.345	149	1328398	43.160	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	629150	44.202	ng		99
62) 4-Nitroaniline	10.486	138	319616	60.958	ng		98
63) Azobenzene	10.622	77	1289983	39.805	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	230269	59.526	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1115654	42.991	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	400867	43.426	ng		98
68) Hexachlorobenzene	11.016	284	455692	46.749	ng		98
69) Atrazine	11.104	200	454566	63.698	ng		99
70) Pentachlorophenol	11.210	266	601294	97.260	ng		100
71) Phenanthrene	11.433	178	1923192	45.494	ng		99
72) Anthracene	11.486	178	1952460	46.084	ng		100
73) Carbazole	11.633	167	1736199	46.406	ng		100
74) Di-n-butylphthalate	11.969	149	2025906	42.719	ng		100
75) Fluoranthene	12.616	202	2053372	47.405	ng		98
77) Benzidine	12.739	184	799850	111.640	ng		100
78) Pyrene	12.845	202	2085318	42.306	ng		100
80) Butylbenzylphthalate	13.463	149	818517	45.705	ng		98
81) Benzo(a)anthracene	14.033	228	1676262	44.583	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	320647	29.725	ng		99
83) Chrysene	14.069	228	1549956	44.720	ng		99
84) Bis(2-ethylhexyl)phtha...	14.022	149	1045650	46.892	ng		99
85) Di-n-octyl phthalate	14.633	149	1528127	45.774	ng		96
87) Indeno(1,2,3-cd)pyrene	17.004	276	1350529	45.269	ng		97
88) Benzo(b)fluoranthene	15.080	252	1402993	43.962	ng		100
89) Benzo(k)fluoranthene	15.116	252	1224702	45.150	ng		98
90) Benzo(a)pyrene	15.451	252	1215083	47.474	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1095175	44.973	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1042057	41.770	ng		97

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

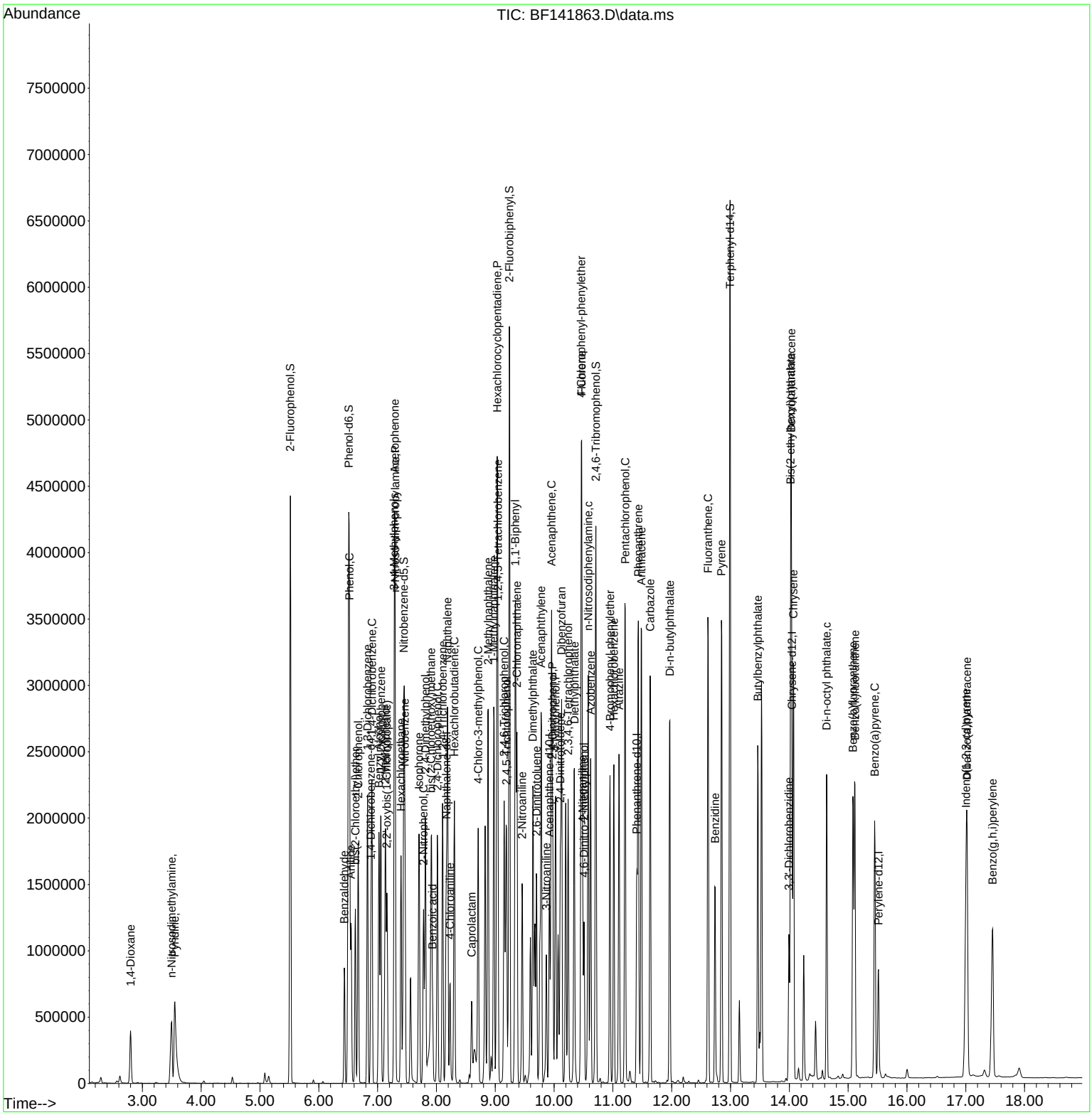
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	192210	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	734232	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	370025	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	565314	20.000	ng	0.00
76) Chrysene-d12	14.039	240	409462	20.000	ng	-0.01
86) Perylene-d12	15.509	264	473342	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1284833	106.751	ng	0.00
7) Phenol-d6	6.504	99	1597457	101.972	ng	0.00
23) Nitrobenzene-d5	7.445	82	1004018	87.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	393680	113.326	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1691234	73.287	ng	0.00
79) Terphenyl-d14	12.986	244	1404647	55.502	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228610	41.861	ng	98
3) Pyridine	3.475	79	539964	39.738	ng	98
4) n-Nitrosodimethylamine	3.416	42	280375	42.884	ng	95
6) Aniline	6.545	93	612696	37.620	ng	100
8) 2-Chlorophenol	6.669	128	564761	43.377	ng	97
9) Benzaldehyde	6.434	77	204683	22.462	ng	99
10) Phenol	6.522	94	725989	43.368	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	526773	41.282	ng	96
12) 1,3-Dichlorobenzene	6.828	146	593769	42.585	ng	100
13) 1,4-Dichlorobenzene	6.904	146	605338	43.087	ng	99
14) 1,2-Dichlorobenzene	7.057	146	577487	44.019	ng	98
15) Benzyl Alcohol	7.022	79	492984	39.376	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	729509	37.645	ng	100
17) 2-Methylphenol	7.128	107	448607	41.743	ng	100
18) Hexachloroethane	7.398	117	223054	42.419	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	384941	37.380	ng	98
20) 3+4-Methylphenols	7.281	107	568592	42.489	ng	96
22) Acetophenone	7.292	105	827134	46.254	ng	97
24) Nitrobenzene	7.463	77	588435	47.838	ng	99
25) Isophorone	7.704	82	1023670	41.482	ng	98
26) 2-Nitrophenol	7.780	139	272681	49.470	ng	98
27) 2,4-Dimethylphenol	7.810	122	475901	52.462	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	615055	39.071	ng	100
29) 2,4-Dichlorophenol	8.016	162	443054	42.337	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	484159	42.221	ng	99
31) Naphthalene	8.186	128	1565470	41.484	ng	99
32) Benzoic acid	7.910	122	353009m	46.845	ng	
33) 4-Chloroaniline	8.233	127	332297	24.016	ng	98
34) Hexachlorobutadiene	8.304	225	301524	42.314	ng	99
35) Caprolactam	8.592	113	165832	51.511	ng	93
36) 4-Chloro-3-methylphenol	8.704	107	477385	41.065	ng	99
37) 2-Methylnaphthalene	8.880	142	971643	39.255	ng	100
38) 1-Methylnaphthalene	8.975	142	949369	39.973	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	515221	48.211	ng	99
41) Hexachlorocyclopentadiene	9.033	237	565053	126.697	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	313746	45.449	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	323494	47.324	ng		99
46) 1,1'-Biphenyl	9.339	154	1353556	48.058	ng		99
47) 2-Chloronaphthalene	9.369	162	928972	44.688	ng		98
48) 2-Nitroaniline	9.457	65	291855	50.994	ng		95
49) Acenaphthylene	9.780	152	1433535	45.995	ng		99
50) Dimethylphthalate	9.639	163	1048895	42.329	ng		100
51) 2,6-Dinitrotoluene	9.698	165	232333	48.952	ng		95
52) Acenaphthene	9.957	154	954639	45.394	ng		99
53) 3-Nitroaniline	9.869	138	173093	35.128	ng	#	91
54) 2,4-Dinitrophenol	9.969	184	147123	70.645	ng	#	20
55) Dibenzofuran	10.127	168	1269599	41.477	ng		98
56) 4-Nitrophenol	10.016	139	401998	109.840	ng		99
57) 2,4-Dinitrotoluene	10.104	165	310411	53.198	ng		92
58) Fluorene	10.469	166	971273	42.361	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	259524m	43.653	ng		
60) Diethylphthalate	10.339	149	991255	39.903	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	470028	40.915	ng		98
62) 4-Nitroaniline	10.480	138	215910	51.021	ng		96
63) Azobenzene	10.621	77	1080202	41.298	ng		95
65) 4,6-Dinitro-2-methylph...	10.504	198	102419	40.086	ng		98
66) n-Nitrosodiphenylamine	10.574	169	861837	46.428	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	288947	43.759	ng		98
68) Hexachlorobenzene	11.016	284	314028	45.037	ng		98
69) Atrazine	11.104	200	317462	62.190	ng		99
70) Pentachlorophenol	11.204	266	374526	84.690	ng		99
71) Phenanthrene	11.427	178	1360847	45.003	ng		99
72) Anthracene	11.480	178	1381172	45.574	ng		99
73) Carbazole	11.633	167	1177198	43.987	ng		99
74) Di-n-butylphthalate	11.963	149	1357104	40.005	ng		99
75) Fluoranthene	12.615	202	1240933	40.050	ng		98
77) Benzidine	12.733	184	496999	96.436	ng		100
78) Pyrene	12.845	202	1269067	35.792	ng		99
80) Butylbenzylphthalate	13.462	149	469636	36.456	ng		97
81) Benzo(a)anthracene	14.027	228	1232226	45.561	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	369769	47.653	ng		100
83) Chrysene	14.068	228	1062387	42.613	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	600275	37.423	ng		100
85) Di-n-octyl phthalate	14.633	149	1108571	46.163	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1050463	34.852	ng		98
88) Benzo(b)fluoranthene	15.080	252	1389072	43.082	ng		100
89) Benzo(k)fluoranthene	15.109	252	1085392	39.606	ng		99
90) Benzo(a)pyrene	15.451	252	1182996	45.749	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	863598	35.102	ng		98
92) Benzo(g,h,i)perylene	17.445	276	737995	29.280	ng		99

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

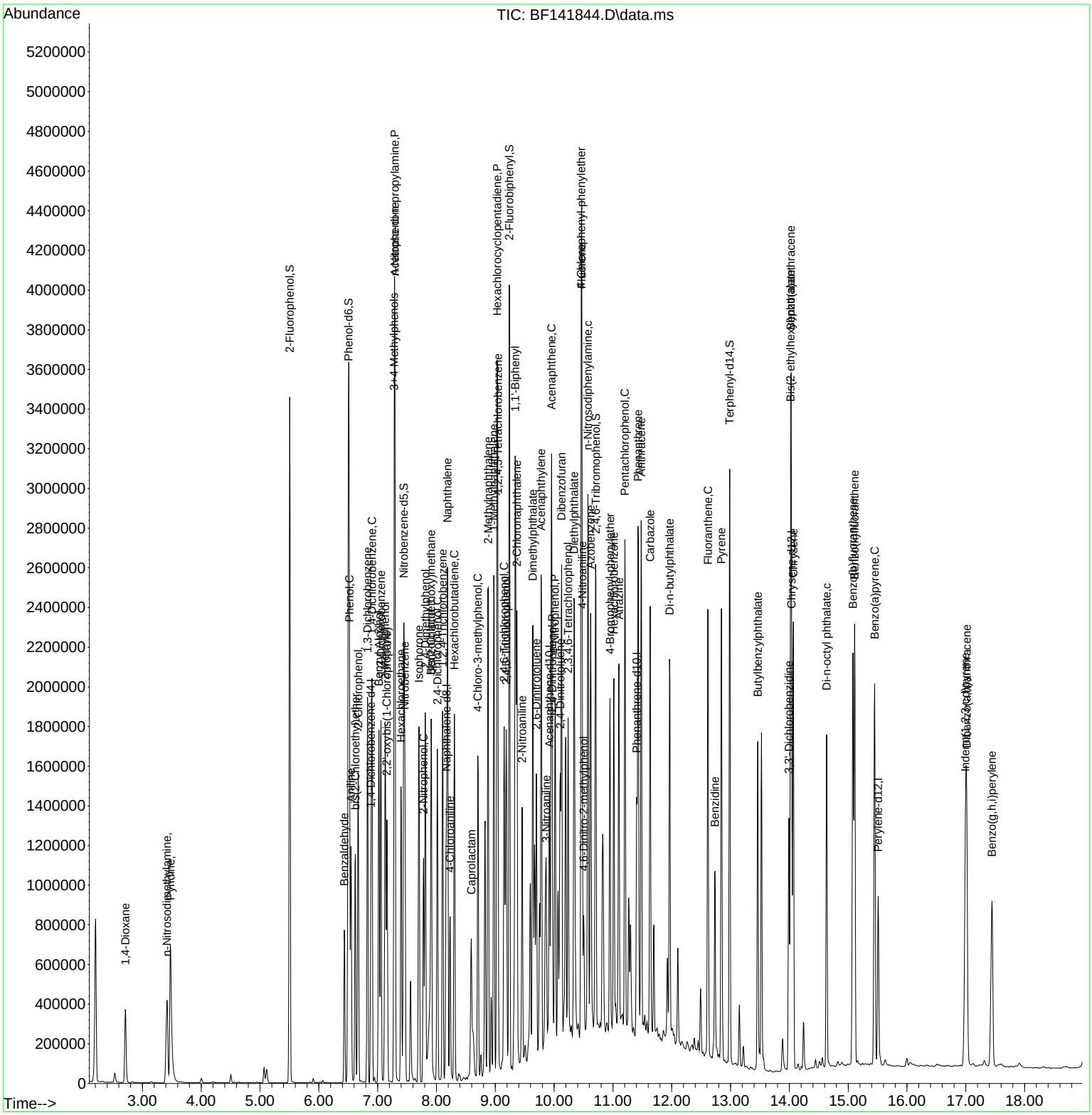
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	191311	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	731999	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	367233	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	575333	20.000	ng	0.00
76) Chrysene-d12	14.039	240	414755	20.000	ng	-0.01
86) Perylene-d12	15.509	264	465047	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1301485	108.643	ng	0.00
7) Phenol-d6	6.504	99	1625710	104.263	ng	0.00
23) Nitrobenzene-d5	7.445	82	1029379	89.888	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	402954	116.878	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1718796	75.048	ng	0.00
79) Terphenyl-d14	12.986	244	1459806	56.946	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228087	41.961	ng	99
3) Pyridine	3.475	79	547422	40.476	ng	98
4) n-Nitrosodimethylamine	3.416	42	283179	43.516	ng	97
6) Aniline	6.545	93	629942	38.861	ng	100
8) 2-Chlorophenol	6.669	128	575056	44.375	ng	96
9) Benzaldehyde	6.434	77	206651	22.785	ng	98
10) Phenol	6.522	94	741516	44.504	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	531330	41.835	ng	97
12) 1,3-Dichlorobenzene	6.828	146	603684	43.499	ng	99
13) 1,4-Dichlorobenzene	6.904	146	616390	44.080	ng	99
14) 1,2-Dichlorobenzene	7.057	146	583334	44.674	ng	98
15) Benzyl Alcohol	7.022	79	497324	39.909	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	733553	38.031	ng	99
17) 2-Methylphenol	7.128	107	454751	42.513	ng	100
18) Hexachloroethane	7.398	117	224314	42.859	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	390439	38.092	ng	99
20) 3+4-Methylphenols	7.281	107	581786	43.679	ng	97
22) Acetophenone	7.292	105	842821	47.275	ng	98
24) Nitrobenzene	7.463	77	598766	48.826	ng	99
25) Isophorone	7.704	82	1045129	42.481	ng	99
26) 2-Nitrophenol	7.781	139	281708	51.099	ng	99
27) 2,4-Dimethylphenol	7.810	122	484864	53.613	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	621875	39.625	ng	99
29) 2,4-Dichlorophenol	8.016	162	452566	43.378	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	495020	43.300	ng	98
31) Naphthalene	8.186	128	1597999	42.475	ng	99
32) Benzoic acid	7.910	122	356667m	47.372	ng	
33) 4-Chloroaniline	8.233	127	347428	25.186	ng	98
34) Hexachlorobutadiene	8.304	225	307767	43.322	ng	98
35) Caprolactam	8.592	113	165656	51.613	ng	97
36) 4-Chloro-3-methylphenol	8.704	107	485311	41.874	ng	99
37) 2-Methylnaphthalene	8.880	142	980751	39.744	ng	99
38) 1-Methylnaphthalene	8.975	142	970185	40.974	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	524773	49.478	ng	99
41) Hexachlorocyclopentadiene	9.033	237	568656	128.474	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	320323	46.755	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	326554	48.135	ng		99
46) 1,1'-Biphenyl	9.339	154	1381301	49.416	ng		99
47) 2-Chloronaphthalene	9.369	162	939307	45.529	ng		98
48) 2-Nitroaniline	9.457	65	301849	52.958	ng		97
49) Acenaphthylene	9.780	152	1444944	46.713	ng		100
50) Dimethylphthalate	9.639	163	1069323	43.481	ng		99
51) 2,6-Dinitrotoluene	9.698	165	235755	49.987	ng		96
52) Acenaphthene	9.957	154	980429	46.974	ng		99
53) 3-Nitroaniline	9.869	138	179159	36.508	ng	#	94
54) 2,4-Dinitrophenol	9.969	184	153518	73.318	ng	#	18
55) Dibenzofuran	10.127	168	1289752	42.456	ng		98
56) 4-Nitrophenol	10.016	139	414529	114.125	ng		99
57) 2,4-Dinitrotoluene	10.104	165	323093	55.621	ng		91
58) Fluorene	10.469	166	986733	43.363	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	269777	45.723	ng		98
60) Diethylphthalate	10.339	149	1010574	40.990	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	482285	42.302	ng		99
62) 4-Nitroaniline	10.480	138	222496	52.977	ng		96
63) Azobenzene	10.622	77	1103992	42.529	ng		95
65) 4,6-Dinitro-2-methylph...	10.510	198	112278	42.552	ng		92
66) n-Nitrosodiphenylamine	10.574	169	874306	46.279	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	299369	44.548	ng		97
68) Hexachlorobenzene	11.016	284	318600	44.897	ng		99
69) Atrazine	11.104	200	327584	63.055	ng		98
70) Pentachlorophenol	11.204	266	378895	84.186	ng		99
71) Phenanthrene	11.427	178	1401406	45.538	ng		99
72) Anthracene	11.480	178	1410204	45.722	ng		99
73) Carbazole	11.633	167	1207332	44.327	ng		99
74) Di-n-butylphthalate	11.963	149	1415465	40.999	ng		100
75) Fluoranthene	12.616	202	1296948	41.129	ng		98
77) Benzidine	12.733	184	567942	108.795	ng		99
78) Pyrene	12.845	202	1302790	36.274	ng		99
80) Butylbenzylphthalate	13.463	149	493506	37.820	ng		98
81) Benzo(a)anthracene	14.033	228	1246967	45.518	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	378006	48.093	ng		100
83) Chrysene	14.068	228	1103430	43.694	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	628755	38.698	ng		100
85) Di-n-octyl phthalate	14.633	149	1135656	46.687	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1039862	35.115	ng		98
88) Benzo(b)fluoranthene	15.080	252	1433060	45.239	ng		99
89) Benzo(k)fluoranthene	15.109	252	1063202	39.488	ng		99
90) Benzo(a)pyrene	15.451	252	1186012	46.684	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	871243	36.044	ng		98
92) Benzo(g,h,i)perylene	17.445	276	735371	29.696	ng		98

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

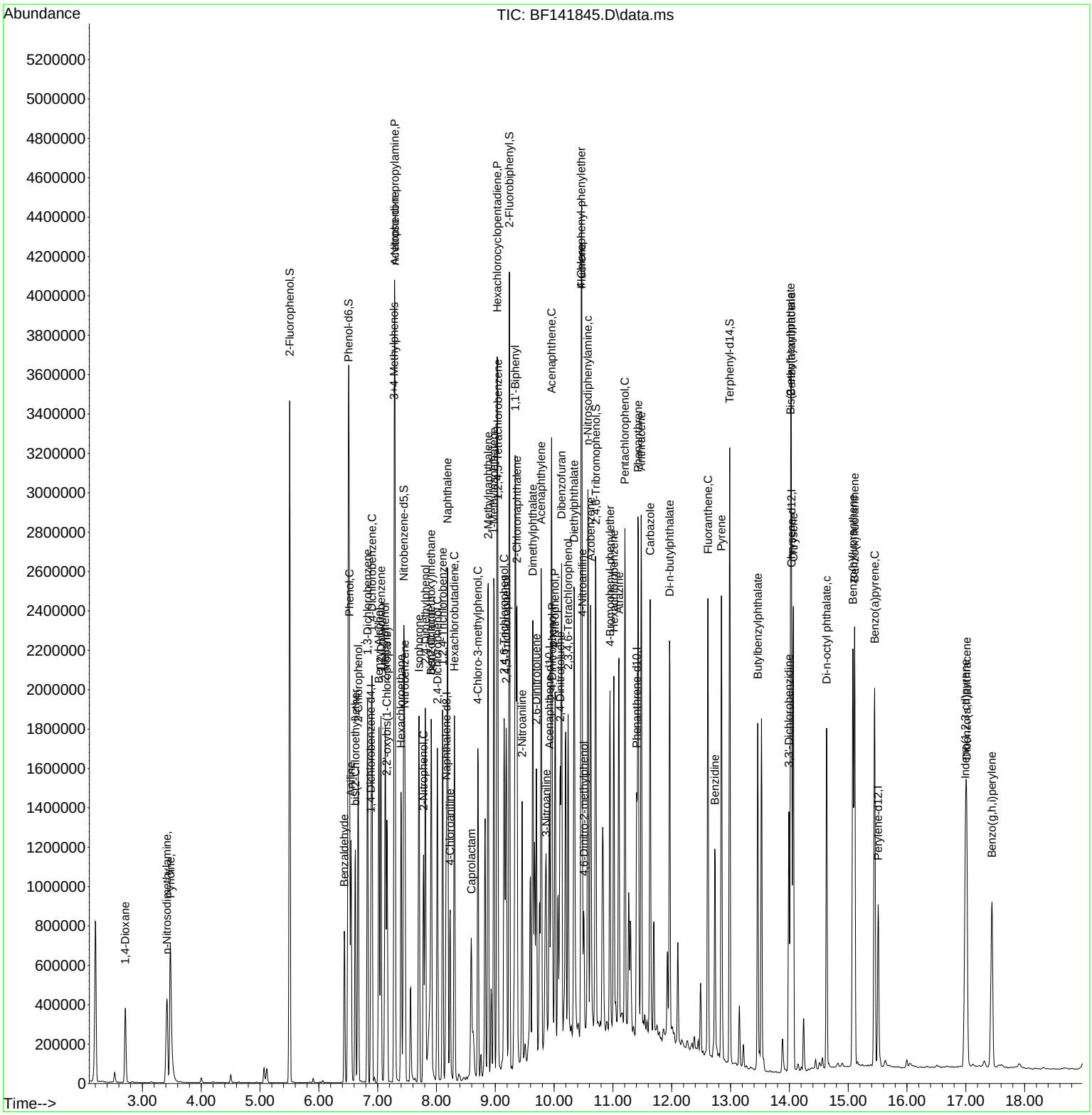
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



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

Manual Integration Report

Sequence:	BF022725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF141794.D	Aniline	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC005	BF141794.D	Phenol	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC010	BF141795.D	Phenol	yogesh	2/28/2025 7:30:34 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC020	BF141796.D	Phenol	yogesh	2/28/2025 7:30:37 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICCC040	BF141797.D	Caprolactam	yogesh	2/28/2025 7:30:40 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Aniline	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Phenol	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF030525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-09	BF141843.D	Benzo(b)fluoranthene	anahy	3/6/2025 9:38:56 AM	Jagrut	3/6/2025 5:47:27 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	2,3,4,6-Tetrachlorophenol	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	Benzoic acid	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MSD	BF141845.D	Benzoic acid	anahy	3/6/2025 9:41:20 AM	Jagrut	3/6/2025 5:47:33 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf030625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166984BS	BF141860.D	Caprolactam	anahy	3/7/2025 8:45:51 AM	Jagrut	3/7/2025 9:42:46 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Benzidine	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Caprolactam	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BSD	BF141863.D	Caprolactam	anahy	3/7/2025 8:56:52 AM	Jagrut	3/7/2025 9:42:52 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141792.D	27 Feb 2025 14:47	RC/JU	Ok
2	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17	RC/JU	Ok
3	SSTDICC005	BF141794.D	27 Feb 2025 15:46	RC/JU	Ok,M
4	SSTDICC010	BF141795.D	27 Feb 2025 16:16	RC/JU	Ok,M
5	SSTDICC020	BF141796.D	27 Feb 2025 16:46	RC/JU	Ok,M
6	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	RC/JU	Ok,M
7	SSTDICC050	BF141798.D	27 Feb 2025 17:46	RC/JU	Ok
8	SSTDICC060	BF141799.D	27 Feb 2025 18:15	RC/JU	Ok
9	SSTDICC080	BF141800.D	27 Feb 2025 18:45	RC/JU	Ok,M
10	SSTDICV040	BF141801.D	27 Feb 2025 19:45	RC/JU	Ok
11	PB166879TB	BF141802.D	27 Feb 2025 20:44	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141834.D	05 Mar 2025 09:40	RC/JU	Ok
2	SSTDCCC040	BF141835.D	05 Mar 2025 10:09	RC/JU	Ok
3	PB166970BL	BF141836.D	05 Mar 2025 10:39	RC/JU	Ok
4	PB166970BS	BF141837.D	05 Mar 2025 11:09	RC/JU	Ok,M
5	Q1480-17DL	BF141838.D	05 Mar 2025 11:45	RC/JU	Ok
6	Q1480-01DL	BF141839.D	05 Mar 2025 12:15	RC/JU	Ok,M
7	Q1489-13	BF141840.D	05 Mar 2025 13:24	RC/JU	Ok
8	Q1488-11	BF141841.D	05 Mar 2025 13:53	RC/JU	Ok
9	Q1488-05	BF141842.D	05 Mar 2025 14:23	RC/JU	Ok
10	Q1488-09	BF141843.D	05 Mar 2025 14:52	RC/JU	Ok,M
11	Q1487-01MS	BF141844.D	05 Mar 2025 15:21	RC/JU	Ok,M
12	Q1487-01MSD	BF141845.D	05 Mar 2025 15:51	RC/JU	Ok,M
13	Q1487-01	BF141846.D	05 Mar 2025 16:21	RC/JU	Ok
14	Q1488-03	BF141847.D	05 Mar 2025 16:50	RC/JU	Ok
15	Q1485-01	BF141848.D	05 Mar 2025 17:20	RC/JU	Ok
16	Q1480-33	BF141849.D	05 Mar 2025 17:50	RC/JU	Ok
17	Q1489-09	BF141850.D	05 Mar 2025 18:20	RC/JU	Ok
18	Q1489-01	BF141851.D	05 Mar 2025 18:50	RC/JU	Ok,M
19	Q1484-01	BF141852.D	05 Mar 2025 19:20	RC/JU	Dilution
20	Q1486-01	BF141853.D	05 Mar 2025 19:50	RC/JU	Ok,M
21	Q1489-05	BF141854.D	05 Mar 2025 20:20	RC/JU	ReRun

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	

22	Q1481-01	BF141855.D	05 Mar 2025 20:50	RC/JU	Ok
23	Q1482-01	BF141856.D	05 Mar 2025 21:20	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141857.D	06 Mar 2025 08:34	RC/JU	Ok
2	SSTDCCC040	BF141858.D	06 Mar 2025 09:52	RC/JU	Ok
3	PB166984BL	BF141859.D	06 Mar 2025 10:22	RC/JU	Ok
4	PB166984BS	BF141860.D	06 Mar 2025 10:52	RC/JU	Ok,M
5	PB166982BL	BF141861.D	06 Mar 2025 11:21	RC/JU	Ok
6	PB166982BS	BF141862.D	06 Mar 2025 11:51	RC/JU	Ok,M
7	PB166982BSD	BF141863.D	06 Mar 2025 12:21	RC/JU	Ok,M
8	Q1488-07	BF141864.D	06 Mar 2025 13:01	RC/JU	Ok
9	Q1488-01	BF141865.D	06 Mar 2025 13:31	RC/JU	Ok
10	Q1489-05	BF141866.D	06 Mar 2025 14:01	RC/JU	Ok,M
11	Q1478-01	BF141867.D	06 Mar 2025 14:31	RC/JU	Ok
12	Q1478-07	BF141868.D	06 Mar 2025 15:01	RC/JU	Ok
13	Q1478-05	BF141869.D	06 Mar 2025 15:30	RC/JU	Ok
14	Q1488-14	BF141870.D	06 Mar 2025 16:00	RC/JU	Ok
15	Q1488-13	BF141871.D	06 Mar 2025 16:29	RC/JU	Ok
16	Q1478-03	BF141872.D	06 Mar 2025 16:59	RC/JU	Ok
17	Q1484-06	BF141873.D	06 Mar 2025 17:29	RC/JU	Ok
18	Q1492-01	BF141874.D	06 Mar 2025 17:59	RC/JU	Ok
19	Q1492-01MS	BF141875.D	06 Mar 2025 18:29	RC/JU	Ok,M
20	Q1492-01MSD	BF141876.D	06 Mar 2025 18:58	RC/JU	Ok,M
21	Q1494-05	BF141877.D	06 Mar 2025 19:28	RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM				
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM				
SubDirectory	BF030625	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

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	

22	Q1494-07	BF141878.D	06 Mar 2025 19:58	RC/JU	Ok
23	Q1490-01	BF141879.D	06 Mar 2025 20:27	RC/JU	Ok,M
24	Q1484-01DL	BF141880.D	06 Mar 2025 20:57	RC/JU	Not Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141792.D	27 Feb 2025 14:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141794.D	27 Feb 2025 15:46	Compound #32,54,65,77 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF141795.D	27 Feb 2025 16:16	Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141796.D	27 Feb 2025 16:46	The Calibration is Fail for Com#77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF141798.D	27 Feb 2025 17:46		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141799.D	27 Feb 2025 18:15		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141800.D	27 Feb 2025 18:45	Compound #69 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF022725	BF141801.D	27 Feb 2025 19:45	ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD	RC/JU	Ok
11	PB166879TB	PB166879TB	BF141802.D	27 Feb 2025 20:44		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141834.D	05 Mar 2025 09:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141835.D	05 Mar 2025 10:09		RC/JU	Ok
3	PB166970BL	PB166970BL	BF141836.D	05 Mar 2025 10:39		RC/JU	Ok
4	PB166970BS	PB166970BS	BF141837.D	05 Mar 2025 11:09		RC/JU	Ok,M
5	Q1480-17DL	TP-3DL	BF141838.D	05 Mar 2025 11:45		RC/JU	Ok
6	Q1480-01DL	TP-1DL	BF141839.D	05 Mar 2025 12:15		RC/JU	Ok,M
7	Q1489-13	TP-4	BF141840.D	05 Mar 2025 13:24		RC/JU	Ok
8	Q1488-11	ENV-104-SB02	BF141841.D	05 Mar 2025 13:53		RC/JU	Ok
9	Q1488-05	ENV-102-SB01	BF141842.D	05 Mar 2025 14:23		RC/JU	Ok
10	Q1488-09	ENV-104-SB01	BF141843.D	05 Mar 2025 14:52		RC/JU	Ok,M
11	Q1487-01MS	DN-B-42MS	BF141844.D	05 Mar 2025 15:21		RC/JU	Ok,M
12	Q1487-01MSD	DN-B-42MSD	BF141845.D	05 Mar 2025 15:51		RC/JU	Ok,M
13	Q1487-01	DN-B-42	BF141846.D	05 Mar 2025 16:21		RC/JU	Ok
14	Q1488-03	ENV-101-SB02	BF141847.D	05 Mar 2025 16:50		RC/JU	Ok
15	Q1485-01	DN-B-41	BF141848.D	05 Mar 2025 17:20		RC/JU	Ok
16	Q1480-33	TP-3-WATER-SAMPLE	BF141849.D	05 Mar 2025 17:50		RC/JU	Ok
17	Q1489-09	TP-3	BF141850.D	05 Mar 2025 18:20		RC/JU	Ok
18	Q1489-01	TP-1	BF141851.D	05 Mar 2025 18:50		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	

19	Q1484-01	TR-OTR-COMP-01	BF141852.D	05 Mar 2025 19:20	Need 2X Dilution	RC/JU	Dilution
20	Q1486-01	DN-B-40	BF141853.D	05 Mar 2025 19:50		RC/JU	Ok,M
21	Q1489-05	TP-2	BF141854.D	05 Mar 2025 20:20	Internal Standard Fail	RC/JU	ReRun
22	Q1481-01	WC-K1311	BF141855.D	05 Mar 2025 20:50		RC/JU	Ok
23	Q1482-01	OR-03-030425	BF141856.D	05 Mar 2025 21:20	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141857.D	06 Mar 2025 08:34		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141858.D	06 Mar 2025 09:52		RC/JU	Ok
3	PB166984BL	PB166984BL	BF141859.D	06 Mar 2025 10:22		RC/JU	Ok
4	PB166984BS	PB166984BS	BF141860.D	06 Mar 2025 10:52		RC/JU	Ok,M
5	PB166982BL	PB166982BL	BF141861.D	06 Mar 2025 11:21		RC/JU	Ok
6	PB166982BS	PB166982BS	BF141862.D	06 Mar 2025 11:51		RC/JU	Ok,M
7	PB166982BSD	PB166982BSD	BF141863.D	06 Mar 2025 12:21		RC/JU	Ok,M
8	Q1488-07	ENV-102-SB02	BF141864.D	06 Mar 2025 13:01		RC/JU	Ok
9	Q1488-01	ENV-101-SB01	BF141865.D	06 Mar 2025 13:31		RC/JU	Ok
10	Q1489-05	TP-2	BF141866.D	06 Mar 2025 14:01		RC/JU	Ok,M
11	Q1478-01	IDW-AQ-MW-19B-COM	BF141867.D	06 Mar 2025 14:31		RC/JU	Ok
12	Q1478-07	IDW-AQ-IW-03-COMP-	BF141868.D	06 Mar 2025 15:01		RC/JU	Ok
13	Q1478-05	IDW-AQ-IW-02-COMP-	BF141869.D	06 Mar 2025 15:30		RC/JU	Ok
14	Q1488-14	ENV-104-GW01	BF141870.D	06 Mar 2025 16:00		RC/JU	Ok
15	Q1488-13	ENV-102-GW01	BF141871.D	06 Mar 2025 16:29		RC/JU	Ok
16	Q1478-03	IDW-AQ-IW-01-COMP-	BF141872.D	06 Mar 2025 16:59		RC/JU	Ok
17	Q1484-06	TR-OTR-COMP-01	BF141873.D	06 Mar 2025 17:29		RC/JU	Ok
18	Q1492-01	RHL1PXI	BF141874.D	06 Mar 2025 17:59		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	

19	Q1492-01MS	RHL1PXIMS	BF141875.D	06 Mar 2025 18:29		RC/JU	Ok,M
20	Q1492-01MSD	RHL1PXIMSD	BF141876.D	06 Mar 2025 18:58		RC/JU	Ok,M
21	Q1494-05	SOIL	BF141877.D	06 Mar 2025 19:28		RC/JU	Ok
22	Q1494-07	SOIL-COMP	BF141878.D	06 Mar 2025 19:58		RC/JU	Ok
23	Q1490-01	CLAY-SLUDGE-DRUM	BF141879.D	06 Mar 2025 20:27		RC/JU	Ok,M
24	Q1484-01DL	TR-OTR-COMP-01DL	BF141880.D	06 Mar 2025 20:57	Out Of Tune Time	RC/JU	Not Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166982

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 03/05/2025

Extraction Start Time : 08:35

Extraction End Date : 03/05/2025

Extraction End Time : 13:35

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [√] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
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. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.
Q1488-13,14 Limited volume received.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext-Lab)	RC/SVOC
13:40	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166982

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166982BL	SBLK982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB166982BS	SLCS982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB166982BSD	SLCSD982	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q1478-01	IDW-AQ-MW-19B-COMP-022825	SVOC-TCL BNA -20	970	6	RUPESH	ritesh	1	C		4
Q1478-03	IDW-AQ-IW-01-COMP-022825	SVOC-TCL BNA -20	960	11	RUPESH	ritesh	1	C		5
Q1478-05	IDW-AQ-IW-02-COMP-022825	SVOC-TCL BNA -20	940	6	RUPESH	ritesh	1	C		6
Q1478-07	IDW-AQ-IW-03-COMP-022825	SVOC-TCL BNA -20	960	6	RUPESH	ritesh	1	c		7
Q1480-33	TP-3-WATER-SAMPLE	SVOC-TCL BNA -20	990	6	RUPESH	ritesh	1	M		8
Q1488-13	ENV-102-GW01	SVOC-TCL BNA -20	700	6	RUPESH	ritesh	1	F		9
Q1488-14	ENV-104-GW01	SVOC-TCL BNA -20	570	6	RUPESH	ritesh	1	F		10

RS 3/5

* **Extracts relinquished on the same date as received.**

Q1488 186982 8:23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1478BN **WorkList ID :** 188023 **Department :** Extraction **Date :** 03-05-2025 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-01	IDW-AQ-MW-19B-COMP-0228:	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-03	IDW-AQ-IW-01-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-05	IDW-AQ-IW-02-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-07	IDW-AQ-IW-03-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1480-33	TP-3-WATER-SAMPLE	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	03/03/2025	8270E
Q1488-13	ENV-102-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-14	ENV-104-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E

763 of 2177

Date/Time 3/5/25 8:30
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by: CR SM

Date/Time 3/5/25 9:05
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RS (Ext-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166984

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/05/2025
Matrix :	Solid			**Extraction Start Time :**	09:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	03/05/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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
3/5/25	RS (Ext lab)	RC/SVOC
12:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166984

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166984BL	SBLK984	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U2-1
PB166984BS	SLCS984	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1481-01	WC-K1311	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		3
Q1482-01	OR-03-030425	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1484-01	TR-OTR-COMP-01	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		5
Q1485-01	DN-B-41	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	B		6
Q1486-01	DN-B-40	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	B		U3-1
Q1487-01	DN-B-42	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	C		2
Q1487-01MS	DN-B-42MS	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	C		3
Q1487-01MSD	DN-B-42MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	C		4
Q1488-01	ENV-101-SB01	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q1488-03	ENV-101-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1488-05	ENV-102-SB01	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U6-1
Q1488-07	ENV-102-SB02	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1488-09	ENV-104-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q1488-11	ENV-104-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		4
Q1489-01	TP-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
Q1489-05	TP-2	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		6
Q1489-09	TP-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U7-1
Q1489-13	TP-4	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		2

RS 3/5

* **Extracts relinquished on the same date as received.**

Q1488
6984
9.40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1485 **WorkList ID :** 188027 **Department :** Extraction **Date :** 03-05-2025 08:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1481-01	WC-K1311	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1482-01	OR-03-030425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H31	03/04/2025	8270E
Q1484-01	TR-OTR-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1485-01	DN-B-41	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1486-01	DN-B-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1487-01	DN-B-42	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1488-01	ENV-101-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-03	ENV-101-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-05	ENV-102-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-07	ENV-102-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-09	ENV-104-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-11	ENV-104-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1489-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-05	TP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-09	TP-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-13	TP-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E

Date/Time 3/5/25 9:35
Raw Sample Received by: RJ (Ext 0-6)
Raw Sample Relinquished by: SM

Date/Time 3/5/25 10:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext 0-6)

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ENV-101-SB01**							
Q1488-02	ENV-101-SB01	TCLP	Pentachlorophenol	42.100	J	18.5	100	ug/L
			Total Svoc :			**42.10**		
			Total Concentration:			**42.10**		

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/07/25
Client Sample ID:	PB167020TB	SDG No.:	Q1488
Lab Sample ID:	PB167020TB	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
BG064076.D	1	03/07/25 12:45	03/10/25 11:24	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		15 (10) - 110 (139)	96%	SPK: 150
13127-88-3	Phenol-d6	139		15 (10) - 110 (134)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.9		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		15 (44) - 110 (137)	99%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	33800	7.864			
1146-65-2	Naphthalene-d8	144000	10.649			
15067-26-2	Acenaphthene-d10	102000	14.486			
1517-22-2	Phenanthrene-d10	232000	17.224			
1719-03-5	Chrysene-d12	232000	21.454			
1520-96-3	Perylene-d12	251000	24.468			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/07/25
Client Sample ID:	PB167020TB	SDG No.:	Q1488
Lab Sample ID:	PB167020TB	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
BG064076.D	1	03/07/25 12:45	03/10/25 11:24	PB167035

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	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
BF141892.D	1	03/07/25 12:45	03/07/25 18:01	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	42.1	J	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		15 (10) - 110 (139)	80%	SPK: 150
13127-88-3	Phenol-d6	102		15 (10) - 110 (134)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	113		30 (49) - 130 (133)	113%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.8		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	186	*	15 (44) - 110 (137)	124%	SPK: 150
1718-51-0	Terphenyl-d14	89.2		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.887			
1146-65-2	Naphthalene-d8	544000	8.163			
15067-26-2	Acenaphthene-d10	296000	9.916			
1517-22-2	Phenanthrene-d10	468000	11.404			
1719-03-5	Chrysene-d12	340000	14.039			
1520-96-3	Perylene-d12	371000	15.51			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01			SDG No.:	Q1488
Lab Sample ID:	Q1488-02			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
BF141892.D	1	03/07/25 12:45	03/07/25 18:01	PB167035

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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
BG064077.D	1	03/07/25 12:45	03/10/25 12:22	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	133		15 (10) - 110 (139)	89%	SPK: 150
13127-88-3	Phenol-d6	115		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		30 (49) - 130 (133)	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	170	*	15 (44) - 110 (137)	113%	SPK: 150
1718-51-0	Terphenyl-d14	100.0		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	37100	7.865			
1146-65-2	Naphthalene-d8	150000	10.65			
15067-26-2	Acenaphthene-d10	95200	14.487			
1517-22-2	Phenanthrene-d10	220000	17.224			
1719-03-5	Chrysene-d12	244000	21.455			
1520-96-3	Perylene-d12	256000	24.475			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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
BG064077.D	1	03/07/25 12:45	03/10/25 12:22	PB167035

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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
BG064078.D	1	03/07/25 12:45	03/10/25 13:03	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	138		15 (10) - 110 (139)	92%	SPK: 150
13127-88-3	Phenol-d6	119		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		30 (52) - 130 (132)	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	178	*	15 (44) - 110 (137)	119%	SPK: 150
1718-51-0	Terphenyl-d14	108		30 (48) - 130 (125)	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35200	7.862			
1146-65-2	Naphthalene-d8	144000	10.652			
15067-26-2	Acenaphthene-d10	92300	14.483			
1517-22-2	Phenanthrene-d10	222000	17.221			
1719-03-5	Chrysene-d12	233000	21.457			
1520-96-3	Perylene-d12	240000	24.472			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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
BG064078.D	1	03/07/25 12:45	03/10/25 13:03	PB167035

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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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
BG064079.D	1	03/07/25 12:45	03/10/25 13:43	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		15 (10) - 110 (139)	96%	SPK: 150
13127-88-3	Phenol-d6	128		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	114		30 (49) - 130 (133)	114%	SPK: 100
321-60-8	2-Fluorobiphenyl	103		30 (52) - 130 (132)	103%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32500	7.861			
1146-65-2	Naphthalene-d8	133000	10.652			
15067-26-2	Acenaphthene-d10	88500	14.488			
1517-22-2	Phenanthrene-d10	206000	17.226			
1719-03-5	Chrysene-d12	235000	21.457			
1520-96-3	Perylene-d12	245000	24.471			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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
BG064079.D	1	03/07/25 12:45	03/10/25 13:43	PB167035

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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
BG064080.D	1	03/07/25 12:45	03/10/25 14:23	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	139		15 (10) - 110 (139)	93%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		30 (49) - 130 (133)	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.3		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	163		15 (44) - 110 (137)	109%	SPK: 150
1718-51-0	Terphenyl-d14	99.1		30 (48) - 130 (125)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	31600	7.862			
1146-65-2	Naphthalene-d8	133000	10.653			
15067-26-2	Acenaphthene-d10	86400	14.483			
1517-22-2	Phenanthrene-d10	204000	17.227			
1719-03-5	Chrysene-d12	230000	21.458			
1520-96-3	Perylene-d12	240000	24.472			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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
BG064080.D	1	03/07/25 12:45	03/10/25 14:23	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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
BG064081.D	1	03/07/25 12:45	03/10/25 15:04	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	141		15 (10) - 110 (139)	94%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.6		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	170	*	15 (44) - 110 (137)	113%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32200	7.861			
1146-65-2	Naphthalene-d8	132000	10.651			
15067-26-2	Acenaphthene-d10	87600	14.482			
1517-22-2	Phenanthrene-d10	206000	17.226			
1719-03-5	Chrysene-d12	226000	21.456			
1520-96-3	Perylene-d12	234000	24.471			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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
BG064081.D	1	03/07/25 12:45	03/10/25 15:04	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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LOQ = Limit of Quantitation
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A = Aldol-Condensation Reaction Products

QC SUMMARY

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

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167020TB	PB167020TB	2-Fluorophenol	150	144	96		15 (10)	110 (139)
		Phenol-d6	150	139	93		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.9	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	148	99		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB167035BL	PB167035BL	2-Fluorophenol	150	142	95		15 (10)	110 (139)
		Phenol-d6	150	136	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	97.0	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	150	100		15 (44)	110 (137)
		Terphenyl-d14	100	97.7	98		30 (48)	130 (125)
PB167035BS	PB167035BS	2-Fluorophenol	150	139	92		15 (10)	110 (139)
		Phenol-d6	150	137	91		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.8	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	92.8	93		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	154	102		15 (44)	110 (137)
		Terphenyl-d14	100	97.3	97		30 (48)	130 (125)
Q1488-02	ENV-101-SB01	2-Fluorophenol	150	120	80		15 (10)	110 (139)
		Phenol-d6	150	102	68		15 (10)	110 (134)
		Nitrobenzene-d5	100	113	113		30 (49)	130 (133)
		2-Fluorobiphenyl	100	99.8	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	186	124	*	15 (44)	110 (137)
		Terphenyl-d14	100	89.2	89		30 (48)	130 (125)
Q1488-02MS	ENV-101-SB01MS	2-Fluorophenol	150	118	79		15 (10)	110 (139)
		Phenol-d6	150	108	72		15 (10)	110 (134)
		Nitrobenzene-d5	100	110	110		30 (49)	130 (133)
		2-Fluorobiphenyl	100	102	102		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	182	122	*	15 (44)	110 (137)
		Terphenyl-d14	100	83.1	83		30 (48)	130 (125)
Q1488-02MSD	ENV-101-SB01MSD	2-Fluorophenol	150	122	82		15 (10)	110 (139)
		Phenol-d6	150	110	73		15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	102	102		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	175	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	76.5	76		30 (48)	130 (125)
Q1488-04	ENV-101-SB02	2-Fluorophenol	150	133	89		15 (10)	110 (139)
		Phenol-d6	150	115	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	107	107		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	170	113	*	15 (44)	110 (137)
		Terphenyl-d14	100	100.0	100		30 (48)	130 (125)
Q1488-06	ENV-102-SB01	2-Fluorophenol	150	138	92		15 (10)	110 (139)
		Phenol-d6	150	119	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	102	102		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	178	119	*	15 (44)	110 (137)
		Terphenyl-d14	100	108	108		30 (48)	130 (125)
Q1488-08	ENV-102-SB02	2-Fluorophenol	150	144	96		15 (10)	110 (139)
		Phenol-d6	150	128	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	114	114		30 (49)	130 (133)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1488-08	ENV-102-SB02	2-Fluorobiphenyl	100	103	103		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
Q1488-10	ENV-104-SB01	2-Fluorophenol	150	139	93		15 (10)	110 (139)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	104	104		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.3	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	163	109		15 (44)	110 (137)
		Terphenyl-d14	100	99.1	99		30 (48)	130 (125)
Q1488-12	ENV-104-SB02	2-Fluorophenol	150	141	94		15 (10)	110 (139)
		Phenol-d6	150	124	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	99.6	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	170	113	*	15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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: Q1488-02MS		**Client Sample ID: ENV-101-SB01MS**						**DataFile: BF141893.D**			
Pyridine	500	0	290	ug/L	58				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	380	ug/L	76				70 (55)	130 (125)	
2-Methylphenol	500	0	400	ug/L	80				70 (60)	130 (131)	
3+4-Methylphenols	500	0	410	ug/L	82				20 (54)	160 (136)	
Hexachloroethane	500	0	370	ug/L	74				20 (19)	160 (146)	
Nitrobenzene	500	0	450	ug/L	90				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	420	ug/L	84				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	470	ug/L	94				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	500	ug/L	100				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	560	ug/L	112				70 (74)	130 (137)	
Hexachlorobenzene	500	0	500	ug/L	100				70 (72)	130 (115)	
Pentachlorophenol	1000	42.1	950	ug/L	91				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

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
Lab Sample ID: Q1488-02MSD		**Client Sample ID:** ENV-101-SB01MSD						**DataFile:** BF141894.D			
Pyridine	500	0	310	ug/L	62		7		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	380	ug/L	76		0		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	390	ug/L	78		3		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	400	ug/L	80		2		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	370	ug/L	74		0		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	450	ug/L	90		0		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	420	ug/L	84		0		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	470	ug/L	94		0		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	500	ug/L	100		0		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	560	ug/L	112		0		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	500	ug/L	100		0		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	42.1	990	ug/L	95		4		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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064075.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167035BS	Pyridine	50	39.2	ug/L	78				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	41.2	ug/L	82				70 (76)	130 (103)	
	2-Methylphenol	50	45.6	ug/L	91				70 (69)	130 (109)	
	3+4-Methylphenols	50	46.0	ug/L	92				20 (67)	160 (106)	
	Hexachloroethane	50	44.3	ug/L	89				20 (76)	160 (118)	
	Nitrobenzene	50	44.7	ug/L	89				70 (58)	130 (106)	
	Hexachlorobutadiene	50	43.4	ug/L	87				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	50.2	ug/L	100				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	48.7	ug/L	97				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	46.6	ug/L	93				70 (60)	130 (115)	
	Hexachlorobenzene	50	44.7	ug/L	89				70 (73)	130 (106)	
	Pentachlorophenol	100	91.9	ug/L	92				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167035BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BG064074.D Lab Sample ID: PB167035BL

Instrument ID: BNA_G Date Extracted: 03/07/2025

Matrix: (soil/water) water Date Analyzed: 03/10/2025

Level: (low/med) LOW Time Analyzed: 10:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167035BS	PB167035BS	BG064075.D	03/10/2025
PB167020TB	PB167020TB	BG064076.D	03/10/2025
ENV-101-SB02	Q1488-04	BG064077.D	03/10/2025
ENV-102-SB01	Q1488-06	BG064078.D	03/10/2025
ENV-102-SB02	Q1488-08	BG064079.D	03/10/2025
ENV-104-SB01	Q1488-10	BG064080.D	03/10/2025
ENV-104-SB02	Q1488-12	BG064081.D	03/10/2025
ENV-101-SB01	Q1488-02	BF141892.D	03/07/2025
ENV-101-SB01MS	Q1488-02MS	BF141893.D	03/07/2025
ENV-101-SB01MSD	Q1488-02MSD	BF141894.D	03/07/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141881.D DFTPP Injection Date: 03/07/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.3
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	33.4
70	Less than 2.0% of mass 69	0.2 (0.8) 1
127	10.0 - 80.0% of mass 198	46.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.0
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.7 (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	BF141882.D	03/07/2025	08:56
ENV-101-SB01	Q1488-02	BF141892.D	03/07/2025	18:01
ENV-101-SB01MS	Q1488-02MS	BF141893.D	03/07/2025	18:30
ENV-101-SB01MSD	Q1488-02MSD	BF141894.D	03/07/2025	18:59

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BG064044.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_G DFTPP Injection Time: 08:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.3
68	Less than 2.0% of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.2 (20.2) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG064045.D	03/05/2025	09:02
SSTDICC005	SSTDICC005	BG064046.D	03/05/2025	09:42
SSTDICC010	SSTDICC010	BG064047.D	03/05/2025	10:22
SSTDICC020	SSTDICC020	BG064048.D	03/05/2025	11:03
SSTDICCC040	SSTDICCC040	BG064049.D	03/05/2025	11:43
SSTDICC050	SSTDICC050	BG064050.D	03/05/2025	12:23
SSTDICC060	SSTDICC060	BG064051.D	03/05/2025	13:04
SSTDICC080	SSTDICC080	BG064052.D	03/05/2025	13:44

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BG064072.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_G DFTPP Injection Time: 08:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	59.5
68	Less than 2.0% of mass 69	0.5 (1.3) 1
69	Mass 69 relative abundance	40.6
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	48.3
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	28
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.5 (20) 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	BG064073.D	03/10/2025	09:23
PB167035BL	PB167035BL	BG064074.D	03/10/2025	10:03
PB167035BS	PB167035BS	BG064075.D	03/10/2025	10:44
PB167020TB	PB167020TB	BG064076.D	03/10/2025	11:24
ENV-101-SB02	Q1488-04	BG064077.D	03/10/2025	12:22
ENV-102-SB01	Q1488-06	BG064078.D	03/10/2025	13:03
ENV-102-SB02	Q1488-08	BG064079.D	03/10/2025	13:43
ENV-104-SB01	Q1488-10	BG064080.D	03/10/2025	14:23
ENV-104-SB02	Q1488-12	BG064081.D	03/10/2025	15:04

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/07/2025

Lab File ID: BF141882.D Time Analyzed: 08:56

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	205331	6.887	782990	8.17	424782	9.92
	UPPER LIMIT	410662	7.387	1565980	8.669	849564	10.422
	LOWER LIMIT	102666	6.387	391495	7.669	212391	9.422
	EPA SAMPLE NO.						
01	ENV-101-SB01	140140	6.89	544005	8.16	296494	9.92
02	ENV-101-SB01MS	146872	6.89	566046	8.17	296352	9.92
03	ENV-101-SB01MSD	134345	6.89	510741	8.17	263683	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/07/2025

Lab File ID: BF141882.D Time Analyzed: 08:56

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	725251	11.404	490278	14.045	391726	15.516
	UPPER LIMIT	1450500	11.904	980556	14.545	783452	16.016
	LOWER LIMIT	362626	10.904	245139	13.545	195863	15.016
	EPA SAMPLE NO.						
01	ENV-101-SB01	468306	11.40	340144	14.04	371112	15.51
02	ENV-101-SB01MS	482424	11.40	376304	14.05	373298	15.52
03	ENV-101-SB01MSD	403770	11.40	354164	14.04	380393	15.52

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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/10/2025

Lab File ID: BG064073.D Time Analyzed: 09:23

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	33051	7.859	147761	10.65	101106	14.49
	UPPER LIMIT	66102	8.359	295522	11.15	202212	14.986
	LOWER LIMIT	16525.5	7.359	73880.5	10.15	50553	13.986
	EPA SAMPLE NO.						
01	PB167035BL	32741	7.86	140985	10.65	98023	14.49
02	PB167035BS	35194	7.86	154810	10.65	106817	14.48
03	PB167020TB	33773	7.86	143930	10.65	102383	14.49
04	ENV-101-SB02	37069	7.87	149931	10.65	95174	14.49
05	ENV-102-SB01	35165	7.86	144374	10.65	92311	14.48
06	ENV-102-SB02	32475	7.86	132840	10.65	88542	14.49
07	ENV-104-SB01	31568	7.86	132922	10.65	86428	14.48
08	ENV-104-SB02	32215	7.86	132011	10.65	87599	14.48

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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/10/2025

Lab File ID: BG064073.D Time Analyzed: 09:23

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	218504	17.224	231279	21.46	238878	24.475
	UPPER LIMIT	437008	17.724	462558	21.96	477756	24.975
	LOWER LIMIT	109252	16.724	115640	20.96	119439	23.975
	EPA SAMPLE NO.						
01	PB167035BL	230921	17.22	233034	21.45	246222	24.47
02	PB167035BS	235208	17.23	237204	21.46	255311	24.47
03	PB167020TB	231933	17.22	231627	21.45	250695	24.47
04	ENV-101-SB02	219929	17.22	243609	21.46	255654	24.48
05	ENV-102-SB01	221718	17.22	232567	21.46	240035	24.47
06	ENV-102-SB02	205793	17.23	234830	21.46	245151	24.47
07	ENV-104-SB01	203951	17.23	230232	21.46	240357	24.47
08	ENV-104-SB02	206278	17.23	226436	21.46	234414	24.47

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:	PB167035BL	SDG No.:	Q1488
Lab Sample ID:	PB167035BL	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
BG064074.D	1	03/07/25 12:45	03/10/25 10:03	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	142		15 (10) - 110 (139)	95%	SPK: 150
13127-88-3	Phenol-d6	136		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.0		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	97.7		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32700	7.858			
1146-65-2	Naphthalene-d8	141000	10.649			
15067-26-2	Acenaphthene-d10	98000	14.486			
1517-22-2	Phenanthrene-d10	231000	17.224			
1719-03-5	Chrysene-d12	233000	21.454			
1520-96-3	Perylene-d12	246000	24.468			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167035BL			SDG No.:	Q1488
Lab Sample ID:	PB167035BL			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
BG064074.D	1	03/07/25 12:45	03/10/25 10:03	PB167035

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
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:	PB167035BS	SDG No.:	Q1488
Lab Sample ID:	PB167035BS	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
BG064075.D	1	03/07/25 12:45	03/10/25 10:44	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	39.2		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	41.2		0.84	5.00	ug/L
95-48-7	2-Methylphenol	45.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	46.0		1.20	10.0	ug/L
67-72-1	Hexachloroethane	44.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	44.7		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.4		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	50.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.7		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	46.6		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	44.7		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	91.9	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	139		15 (10) - 110 (139)	92%	SPK: 150
13127-88-3	Phenol-d6	137		15 (10) - 110 (134)	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.8		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.8		30 (52) - 130 (132)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		15 (44) - 110 (137)	102%	SPK: 150
1718-51-0	Terphenyl-d14	97.3		30 (48) - 130 (125)	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35200	7.862			
1146-65-2	Naphthalene-d8	155000	10.647			
15067-26-2	Acenaphthene-d10	107000	14.484			
1517-22-2	Phenanthrene-d10	235000	17.228			
1719-03-5	Chrysene-d12	237000	21.458			
1520-96-3	Perylene-d12	255000	24.472			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167035BS			SDG No.:	Q1488
Lab Sample ID:	PB167035BS			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
BG064075.D	1	03/07/25 12:45	03/10/25 10:44	PB167035

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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MS	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
BF141893.D	1	03/07/25 12:45	03/07/25 18:30	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	290		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	380		8.40	50.0	ug/L
95-48-7	2-Methylphenol	400		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	410		11.5	100	ug/L
67-72-1	Hexachloroethane	370		10.1	50.0	ug/L
98-95-3	Nitrobenzene	450		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	420		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	500		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	560		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	500		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	950	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	118		15 (10) - 110 (139)	79%	SPK: 150
13127-88-3	Phenol-d6	108		15 (10) - 110 (134)	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	110		30 (49) - 130 (133)	110%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		30 (52) - 130 (132)	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	182	*	15 (44) - 110 (137)	122%	SPK: 150
1718-51-0	Terphenyl-d14	83.1		30 (48) - 130 (125)	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.887			
1146-65-2	Naphthalene-d8	566000	8.169			
15067-26-2	Acenaphthene-d10	296000	9.922			
1517-22-2	Phenanthrene-d10	482000	11.404			
1719-03-5	Chrysene-d12	376000	14.045			
1520-96-3	Perylene-d12	373000	15.515			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MS	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
BF141893.D	1	03/07/25 12:45	03/07/25 18:30	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MSD	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
BF141894.D	1	03/07/25 12:45	03/07/25 18:59	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	310		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	380		8.40	50.0	ug/L
95-48-7	2-Methylphenol	390		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	400		11.5	100	ug/L
67-72-1	Hexachloroethane	370		10.1	50.0	ug/L
98-95-3	Nitrobenzene	450		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	420		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	500		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	560		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	500		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	990	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		15 (10) - 110 (139)	82%	SPK: 150
13127-88-3	Phenol-d6	110		15 (10) - 110 (134)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		30 (52) - 130 (132)	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	175	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	76.5		30 (48) - 130 (125)	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.886			
1146-65-2	Naphthalene-d8	511000	8.169			
15067-26-2	Acenaphthene-d10	264000	9.922			
1517-22-2	Phenanthrene-d10	404000	11.404			
1719-03-5	Chrysene-d12	354000	14.039			
1520-96-3	Perylene-d12	380000	15.515			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MSD	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
BF141894.D	1	03/07/25 12:45	03/07/25 18:59	PB167035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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LOQ = Limit of Quantitation
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J = Estimated Value
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* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF1418
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064045.D 5 =BG064046.D 10 =BG064047.D 20 =BG064048.D 40 =BG064049.D 50 =BG064050.D 60 =BG064051.D 80 =BG0640
52.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.598	0.605	0.624	0.585	0.559	0.539	0.554	0.580	5.31
3)		Pyridine		1.450	1.445	1.452	1.573	1.338	1.376	1.248	1.412	7.30
4)		n-Nitrosodimet...		0.892	0.976	1.017	1.064	0.996	1.047	1.068	1.009	6.16
5)	S	2-Fluorophenol		1.165	1.240	1.330	1.350	1.259	1.318	1.304	1.281	5.00
6)		Aniline		1.593	1.670	1.825	1.820	1.642	1.748	1.671	1.710	5.24
7)	S	Phenol-d6		1.580	1.631	1.794	1.848	1.703	1.839	1.803	1.742	6.09
8)		2-Chlorophenol		1.262	1.337	1.412	1.446	1.333	1.420	1.420	1.376	4.80
9)		Benzaldehyde		1.111	1.122	1.133	1.003	0.860	0.850		1.013	12.94
10)	C	Phenol		1.590	1.693	1.826	1.881	1.752	1.900	1.846	1.784	6.30
11)		bis(2-Chloroet...		1.375	1.444	1.424	1.415	1.322	1.418	1.394	1.399	2.88
12)		1,3-Dichlorobe...		1.523	1.539	1.501	1.546	1.438	1.519	1.508	1.511	2.36
13)	C	1,4-Dichlorobe...		1.548	1.546	1.607	1.592	1.478	1.536	1.532	1.548	2.72
14)		1,2-Dichlorobe...		1.488	1.464	1.543	1.519	1.416	1.525	1.497	1.493	2.88
15)		Benzyl Alcohol		1.115	1.249	1.343	1.436	1.358	1.467	1.457	1.346	9.50
16)		2,2'-oxybis(1-...		3.064	3.024	3.209	3.282	2.996	3.218	3.222	3.145	3.61
17)		2-Methylphenol		1.015	1.116	1.177	1.268	1.171	1.269	1.271	1.184	8.11
18)		Hexachloroethane		0.489	0.519	0.520	0.577	0.526	0.581	0.580	0.542	6.88
19)	P	n-Nitroso-di-n...	1.146	1.095	1.157	1.282	1.323	1.189	1.322	1.268	1.223	7.13
20)		3+4-Methylphenols		1.402	1.518	1.638	1.706	1.612	1.804	1.729	1.630	8.34
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.522	0.525	0.580	0.563	0.546	0.561	0.543	0.548	3.82
23)	S	Nitrobenzene-d5		0.290	0.300	0.360	0.385	0.390	0.400	0.409	0.362	13.32
24)		Nitrobenzene		0.298	0.320	0.390	0.397	0.396	0.409	0.409	0.374	12.20
25)		Isophorone		0.709	0.672	0.744	0.745	0.717	0.757	0.727	0.724	3.93
26)	C	2-Nitrophenol		0.067	0.079	0.096	0.122	0.130	0.141	0.147	0.112	28.03
27)		2,4-Dimethylph...		0.194	0.187	0.221	0.228	0.221	0.239	0.229	0.217	8.82
28)		bis(2-Chloroet...		0.424	0.417	0.468	0.443	0.427	0.449	0.445	0.439	4.03
29)	C	2,4-Dichloroph...		0.222	0.239	0.281	0.287	0.290	0.301	0.298	0.274	11.22
30)		1,2,4-Trichlor...		0.323	0.317	0.343	0.332	0.336	0.335	0.332	0.331	2.54
31)		Naphthalene		1.078	1.043	1.114	1.079	1.061	1.097	1.077	1.078	2.13
32)		Benzoic acid			0.078	0.139	0.172	0.191	0.217	0.220	0.170	31.75
33)		4-Chloroaniline		0.355	0.364	0.407	0.416	0.394	0.419	0.404	0.394	6.46
34)	C	Hexachlorobuta...		0.208	0.213	0.225	0.219	0.216	0.220	0.218	0.217	2.55
35)		Caprolactam		0.086	0.091	0.112	0.110	0.113	0.112	0.111	0.105	10.78
36)	C	4-Chloro-3-met...		0.293	0.330	0.379	0.373	0.373	0.390	0.376	0.359	9.67
37)		2-Methylnaphth...		0.775	0.727	0.788	0.763	0.746	0.779	0.751	0.761	2.80
38)		1-Methylnaphth...		0.745	0.728	0.771	0.753	0.724	0.768	0.733	0.746	2.53

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.547	0.584	0.592	0.586	0.560	0.562	0.566	0.571	2.88
41)	P	Hexachlorocycl...	0.123	0.128	0.161	0.175	0.175	0.180	0.183	0.161	15.44
42)	S	2,4,6-Tribromo...	0.166	0.191	0.226	0.241	0.241	0.250	0.241	0.222	14.12
43)	C	2,4,6-Trichlor...	0.268	0.293	0.341	0.358	0.362	0.368	0.366	0.337	11.89
44)		2,4,5-Trichlor...	0.284	0.330	0.381	0.406	0.396	0.407	0.413	0.374	12.98
45)	S	2-Fluorobiphenyl	1.369	1.310	1.359	1.368	1.283	1.284	1.251	1.318	3.62
46)		1,1'-Biphenyl	1.506	1.499	1.572	1.538	1.475	1.512	1.475	1.511	2.29
47)		2-Chloronaphth...	1.086	1.075	1.100	1.127	1.102	1.121	1.103	1.102	1.63
48)		2-Nitroaniline	0.197	0.231	0.277	0.348	0.368	0.396	0.408	0.318	26.14
49)		Acenaphthylene	1.714	1.677	1.793	1.789	1.735	1.777	1.717	1.743	2.53
50)		Dimethylphthalate	1.432	1.401	1.559	1.520	1.463	1.508	1.452	1.476	3.73
51)		2,6-Dinitrotol...	0.158	0.200	0.262	0.292	0.300	0.307	0.308	0.261	22.73
52)	C	Acenaphthene	1.165	1.148	1.231	1.187	1.159	1.171	1.128	1.170	2.77
53)		3-Nitroaniline	0.190	0.228	0.298	0.316	0.313	0.329	0.323	0.285	18.96
54)	P	2,4-Dinitrophenol		0.066	0.084	0.100	0.111	0.121	0.129	0.102	23.25
55)		Dibenzofuran	1.926	1.881	1.976	1.941	1.853	1.864	1.826	1.895	2.84
56)	P	4-Nitrophenol		0.164	0.200	0.257	0.280	0.270	0.265	0.239	19.47
57)		2,4-Dinitrotol...	0.225	0.255	0.344	0.404	0.418	0.426	0.424	0.357	23.78
58)		Fluorene	1.555	1.450	1.542	1.478	1.452	1.460	1.395	1.476	3.79
59)		2,3,4,6-Tetrac...	0.262	0.326	0.388	0.395	0.385	0.402	0.393	0.365	14.21
60)		Diethylphthalate	1.496	1.501	1.709	1.669	1.624	1.637	1.584	1.603	5.06
61)		4-Chlorophenyl...	0.754	0.744	0.788	0.735	0.712	0.721	0.681	0.733	4.61
62)		4-Nitroaniline	0.213	0.263	0.313	0.345	0.351	0.339	0.333	0.308	16.67
63)		Azobenzene	1.734	1.645	1.785	1.758	1.700	1.705	1.644	1.710	3.13
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.050	0.059	0.075	0.082	0.092	0.096	0.076	24.31
66)	c	n-Nitrosodiphe...	0.558	0.551	0.582	0.578	0.558	0.571	0.565	0.566	2.06
67)		4-Bromophenyl-...	0.186	0.195	0.212	0.210	0.200	0.217	0.213	0.205	5.61
68)		Hexachlorobenzene	0.227	0.226	0.236	0.229	0.228	0.229	0.230	0.229	1.45
69)		Atrazine	0.175	0.190	0.179	0.160	0.129			0.167	14.34
70)	C	Pentachlorophenol		0.105	0.128	0.149	0.151	0.159	0.163	0.142	15.58
71)		Phenanthrene	1.084	1.034	1.110	1.080	1.054	1.059	1.047	1.067	2.44
72)		Anthracene	1.024	1.041	1.104	1.085	1.055	1.065	1.051	1.061	2.55
73)		Carbazole	0.949	0.988	1.020	1.027	1.007	0.986	0.956	0.990	3.02
74)		Di-n-butylphth...	0.932	1.095	1.213	1.257	1.236	1.219	1.208	1.166	9.90
75)	C	Fluoranthene	1.272	1.315	1.336	1.318	1.298	1.243	1.221	1.286	3.31
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.221	0.400	0.238	0.313	0.195	0.299	0.271	0.277	24.80
78)		Pyrene	1.251	1.287	1.350	1.310	1.254	1.290	1.282	1.289	2.63
79)	S	Terphenyl-d14	1.011	1.024	1.062	0.999	0.944	0.957	0.927	0.989	4.88
80)		Butylbenzylpht...	0.285	0.331	0.405	0.465	0.473	0.503	0.502	0.423	20.44
81)		Benzo(a)anthra...	1.217	1.268	1.310	1.303	1.275	1.309	1.286	1.281	2.54
82)		3,3'-Dichlorob...	0.350	0.396	0.444	0.450	0.416	0.436	0.411	0.415	8.27
83)		Chrysene	1.281	1.233	1.308	1.306	1.263	1.301	1.252	1.278	2.29
84)		Bis(2-ethylhex...	0.504	0.582	0.685	0.757	0.751	0.789	0.782	0.693	15.90
85)	c	Di-n-octyl pht...		0.892	1.108	1.239	1.256	1.339	1.338	1.195	14.31

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.223	1.232	1.408	1.376	1.354	1.381	1.394	1.338	5.80
88)		Benzo(b)fluora...	1.150	1.146	1.269	1.216	1.232	1.215	1.236	1.209	3.76
89)		Benzo(k)fluora...	1.111	1.189	1.281	1.255	1.205	1.234	1.215	1.213	4.49
90)	C	Benzo(a)pyrene	0.993	1.022	1.124	1.107	1.106	1.092	1.093	1.077	4.57
91)		Dibenzo(a,h)an...	1.029	1.036	1.151	1.133	1.134	1.123	1.160	1.109	4.86
92)		Benzo(g,h,i)pe...	1.049	1.093	1.208	1.152	1.146	1.155	1.168	1.139	4.58

(#) = 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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/07/2025 08:56

Lab File ID: BF141882.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.414	1.348		-4.7	
2-Fluorophenol	1.252	1.256		0.3	
Phenol-d6	1.630	1.579		-3.1	
1,4-Dichlorobenzene	1.462	1.487		1.7	20.0
2-Methylphenol	1.118	1.079		-3.5	
3+4-Methylphenols	1.392	1.368		-1.7	
Nitrobenzene-d5	0.313	0.378		20.8	
Hexachloroethane	0.547	0.553		1.1	
Nitrobenzene	0.335	0.376		12.2	
Hexachlorobutadiene	0.194	0.214		10.3	20.0
2,4,6-Trichlorophenol	0.373	0.408		9.4	20.0
2-Fluorobiphenyl	1.247	1.329		6.6	
2,4,5-Trichlorophenol	0.369	0.436		18.2	
2,4-Dinitrotoluene	0.269	0.415		54.3	
2,4,6-Tribromophenol	0.188	0.260		38.3	
Hexachlorobenzene	0.247	0.280		13.4	
Pentachlorophenol	0.156	0.195		25.0	20.0
Terphenyl-d14	1.236	1.349		9.1	

All other compounds must meet a minimum RRF of 0.010.

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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_G Calibration Date/Time: 03/10/2025 09:23

Lab File ID: BG064073.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.412	1.607		13.8	
2-Fluorophenol	1.281	1.298		1.3	
Phenol-d6	1.742	1.787		2.6	
1,4-Dichlorobenzene	1.548	1.559		0.7	20.0
2-Methylphenol	1.184	1.244		5.1	
3+4-Methylphenols	1.630	1.707		4.7	
Nitrobenzene-d5	0.362	0.395		9.1	
Hexachloroethane	0.542	0.570		5.2	
Nitrobenzene	0.374	0.392		4.8	
Hexachlorobutadiene	0.217	0.225		3.7	20.0
2,4,6-Trichlorophenol	0.337	0.387		14.8	20.0
2-Fluorobiphenyl	1.318	1.399		6.1	
2,4,5-Trichlorophenol	0.374	0.424		13.4	
2,4-Dinitrotoluene	0.357	0.406		13.7	
2,4,6-Tribromophenol	0.222	0.242		9.0	
Hexachlorobenzene	0.229	0.240		4.8	
Pentachlorophenol	0.142	0.148		4.2	20.0
Terphenyl-d14	0.989	0.972		-1.7	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064076.D
Acq On : 10 Mar 2025 11:24
Operator : RC/JU
Sample : PB167020TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Quant Time: Mar 10 13:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

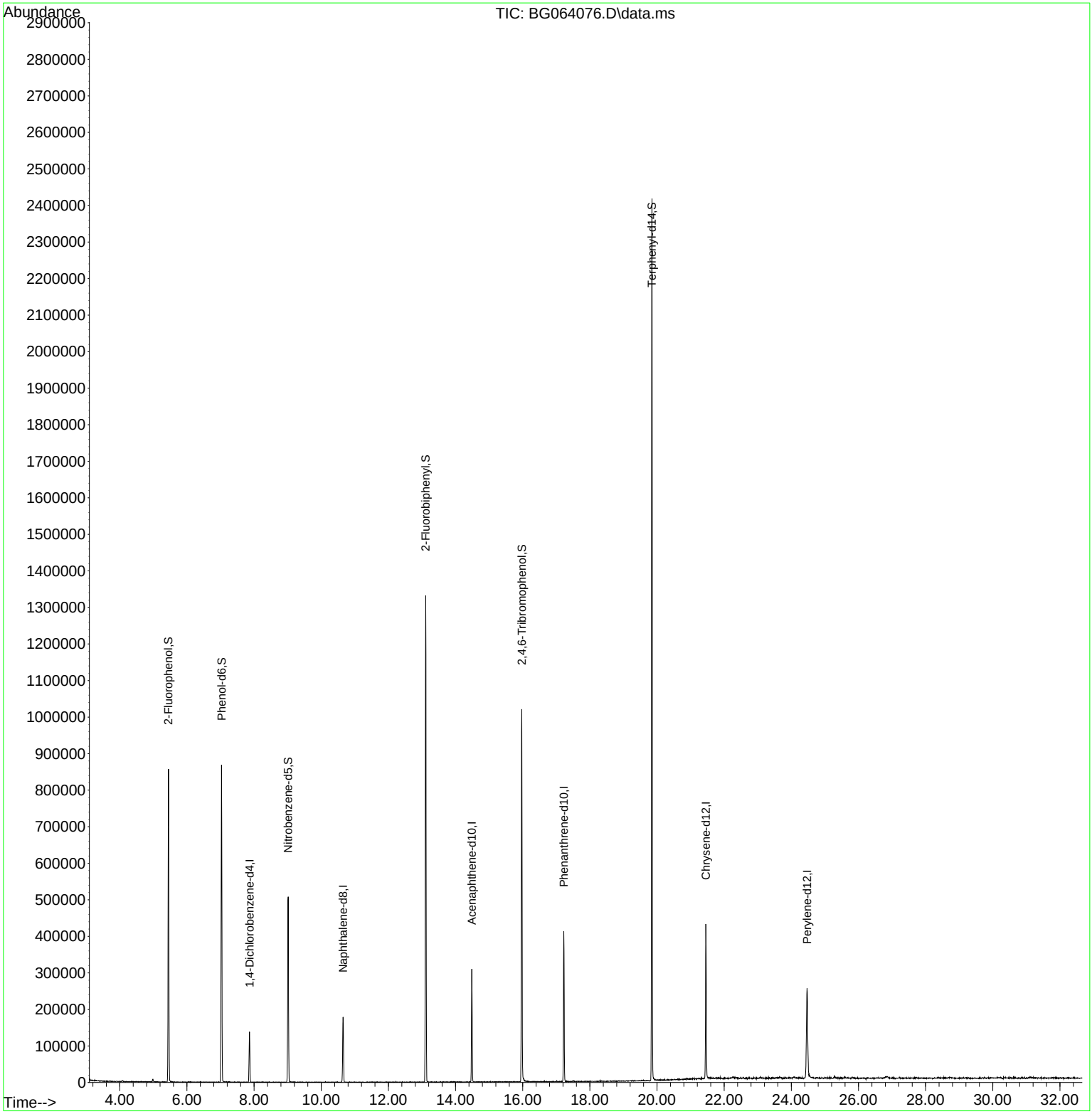
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.864	152	33773	20.000	ng	# 0.00
21) Naphthalene-d8	10.649	136	143930	20.000	ng	# 0.00
39) Acenaphthene-d10	14.486	164	102383	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	231933	20.000	ng	0.00
76) Chrysene-d12	21.454	240	231627	20.000	ng	0.00
86) Perylene-d12	24.468	264	250695	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.449	112	311735	144.126	ng	0.00
7) Phenol-d6	7.030	99	409825	139.281	ng	0.00
23) Nitrobenzene-d5	9.016	82	264974	101.737	ng	0.00
42) 2,4,6-Tribromophenol	15.972	330	168851	148.368	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	640087	94.896	ng	0.00
79) Terphenyl-d14	19.850	244	1171504	102.267	ng	0.00
Target Compounds						Qvalue

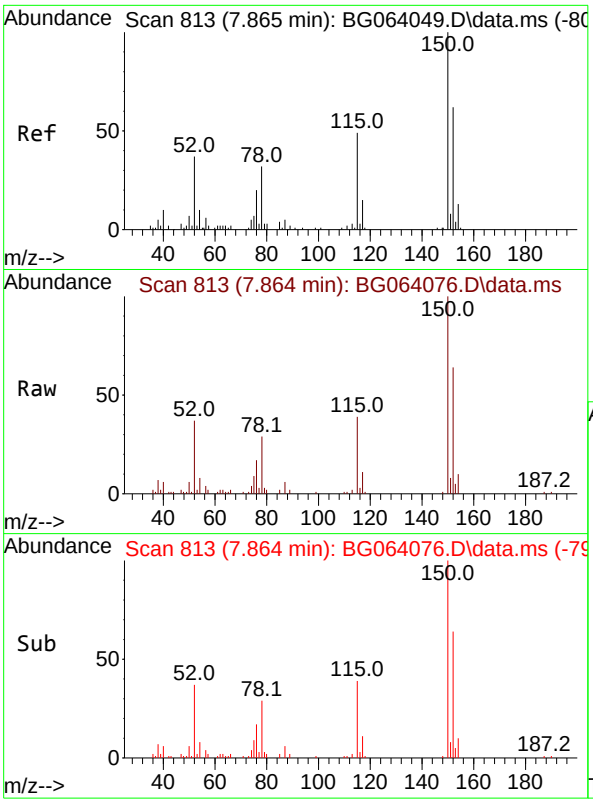
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064076.D
Acq On : 10 Mar 2025 11:24
Operator : RC/JU
Sample : PB167020TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Quant Time: Mar 10 13:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



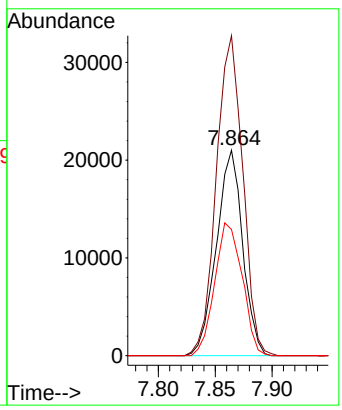


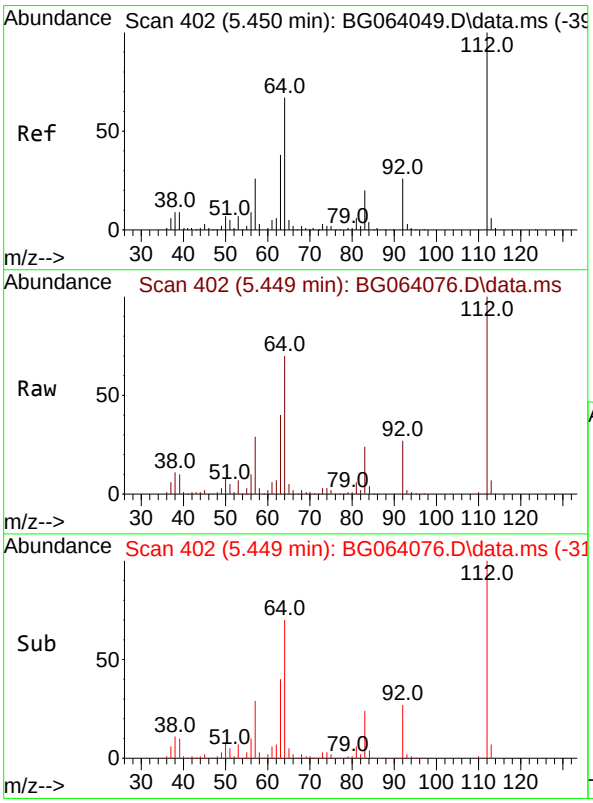
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion:152 Resp: 33773

Ion	Ratio	Lower	Upper
152	100		
150	155.8	129.2	193.8
115	61.5	63.0	94.6#

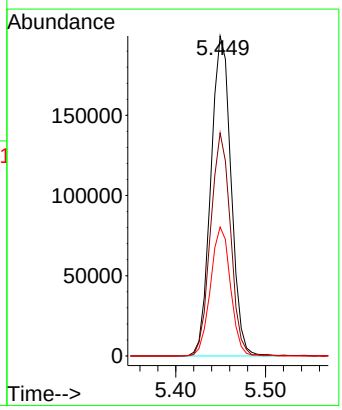


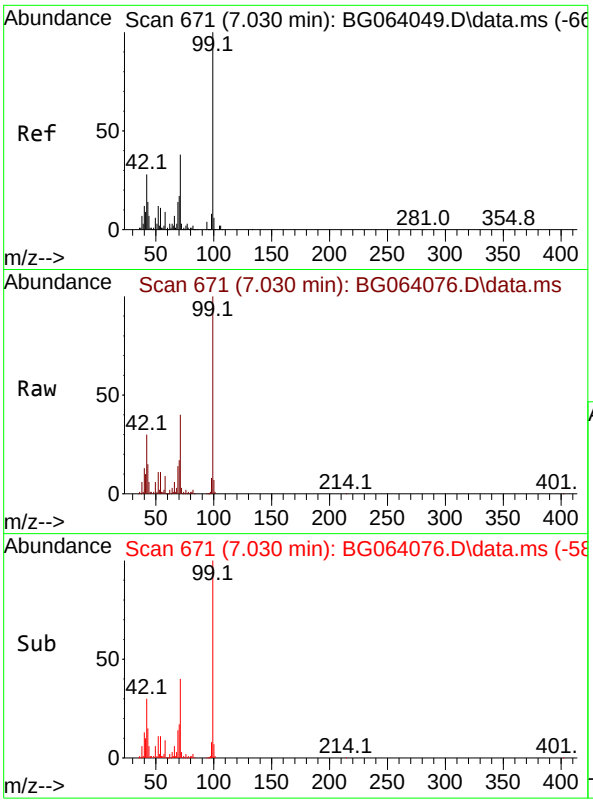


#5
2-Fluorophenol
Concen: 144.126 ng
RT: 5.449 min Scan# 402
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:112 Resp: 311735

Ion	Ratio	Lower	Upper
112	100		
64	69.7	53.7	80.5
63	40.3	30.2	45.4



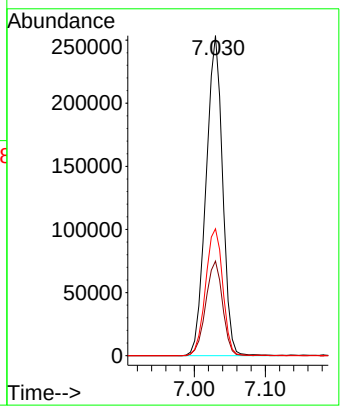


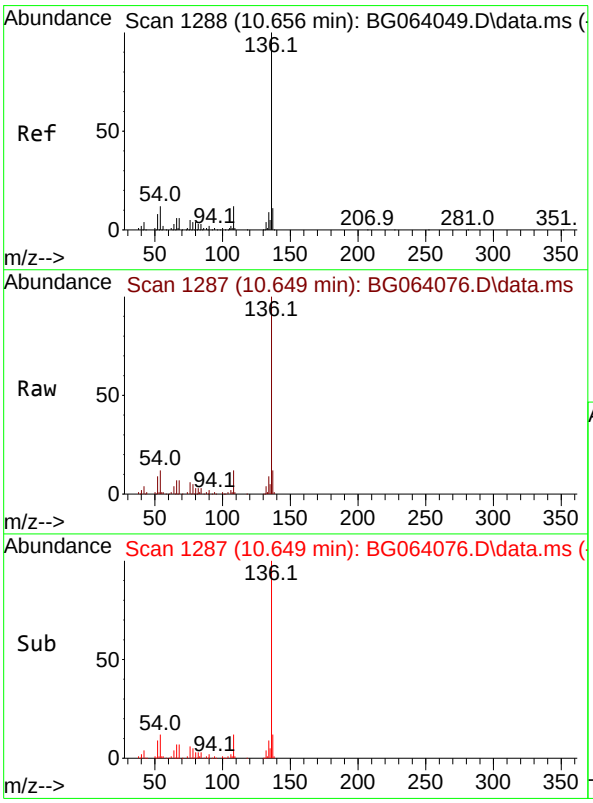
#7
Phenol-d6
Concen: 139.281 ng
RT: 7.030 min Scan# 6
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion: 99 Resp: 409825

Ion	Ratio	Lower	Upper
99	100		
42	29.5	22.7	34.1
71	39.6	30.6	46.0

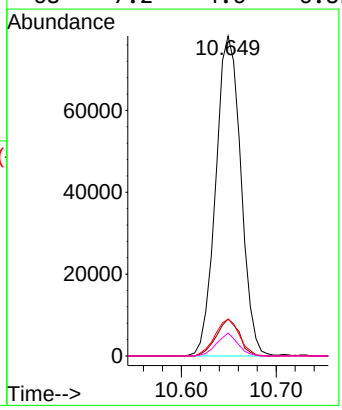


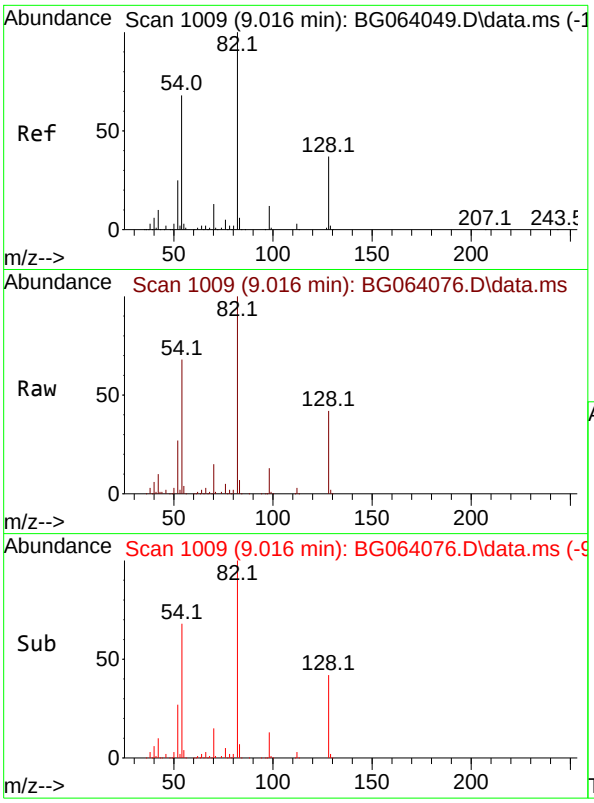


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:136 Resp: 143930

Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.5	12.7
54	11.5	9.9	14.9
68	7.2	4.6	6.8#



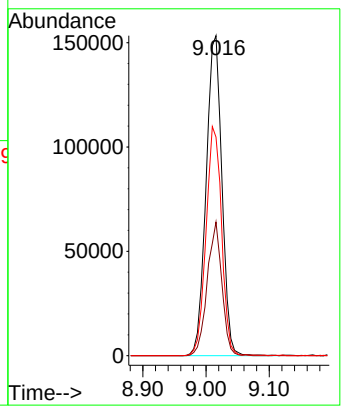


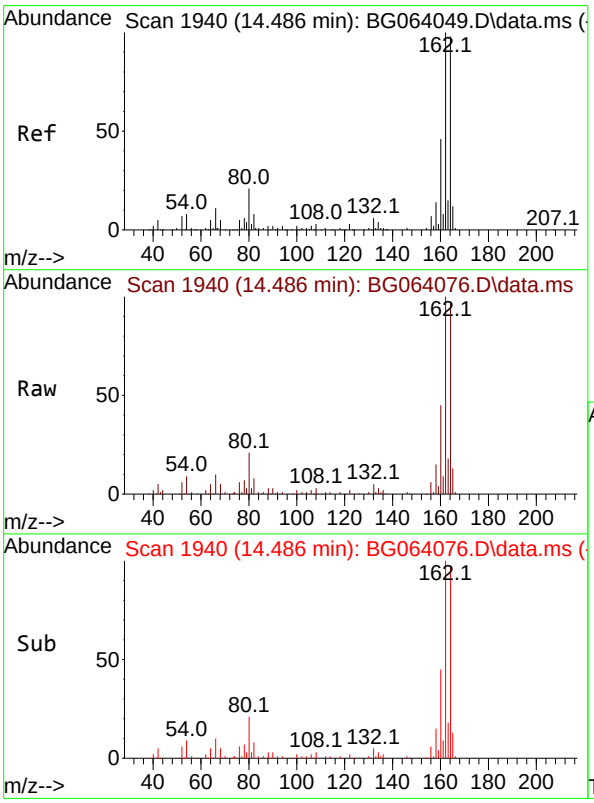
#23
Nitrobenzene-d5
Concen: 101.737 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion: 82 Resp: 264974

Ion	Ratio	Lower	Upper
82	100		
128	41.8	30.0	45.0
54	68.3	54.7	82.1

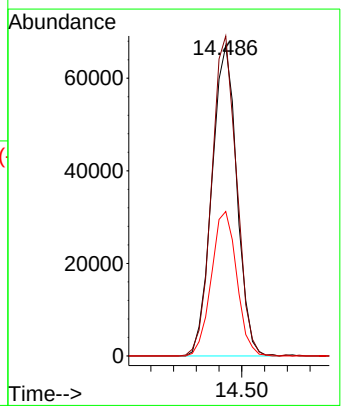


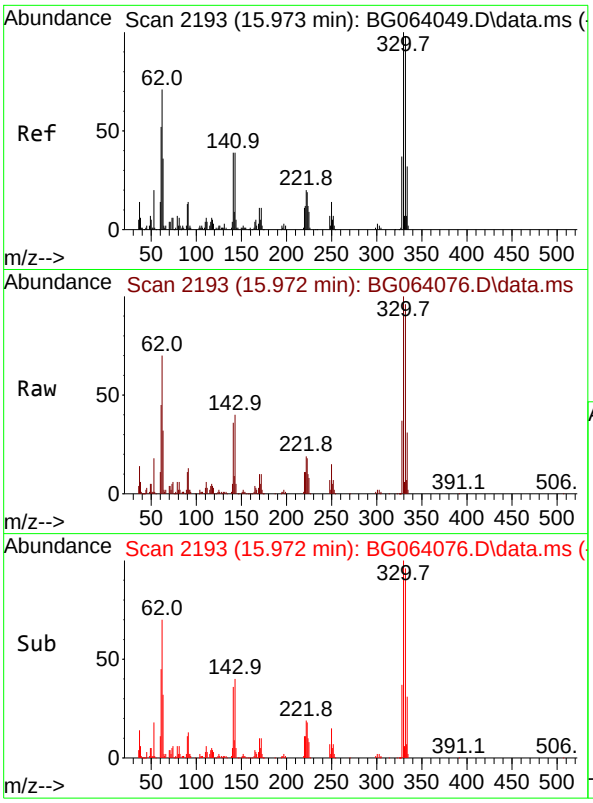


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:164 Resp: 102383

Ion	Ratio	Lower	Upper
164	100		
162	103.1	81.4	122.0
160	46.6	37.0	55.6



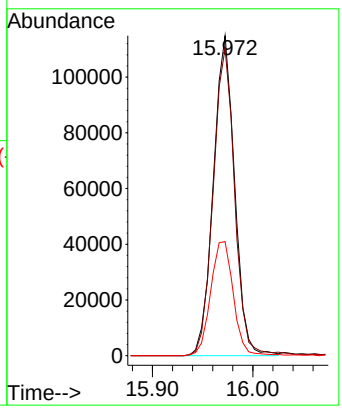


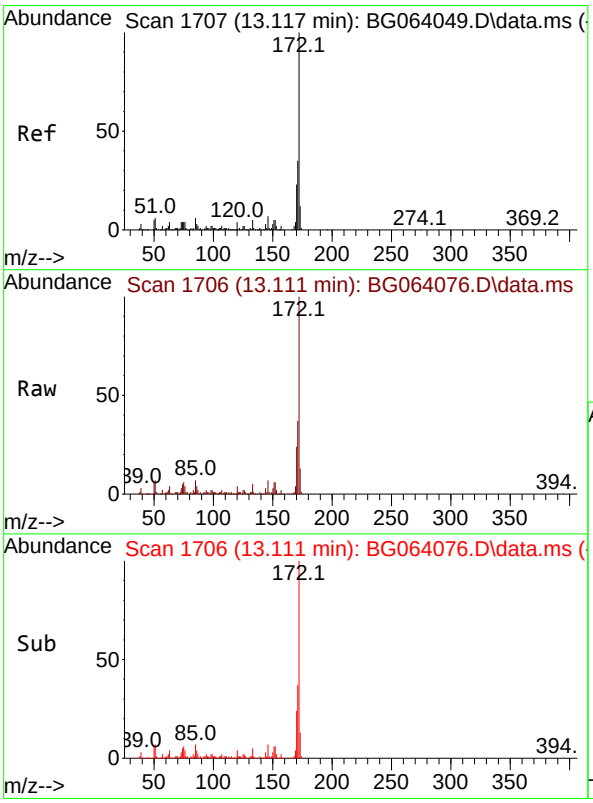
#42
2,4,6-Tribromophenol
Concen: 148.368 ng
RT: 15.972 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion:330 Resp: 168851

Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.7	115.1
141	38.3	29.7	44.5

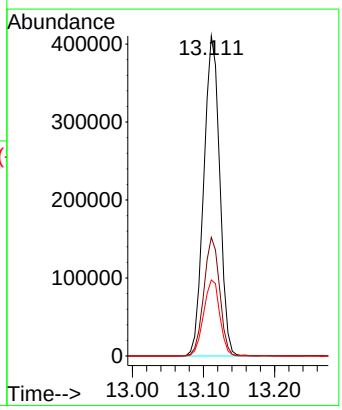


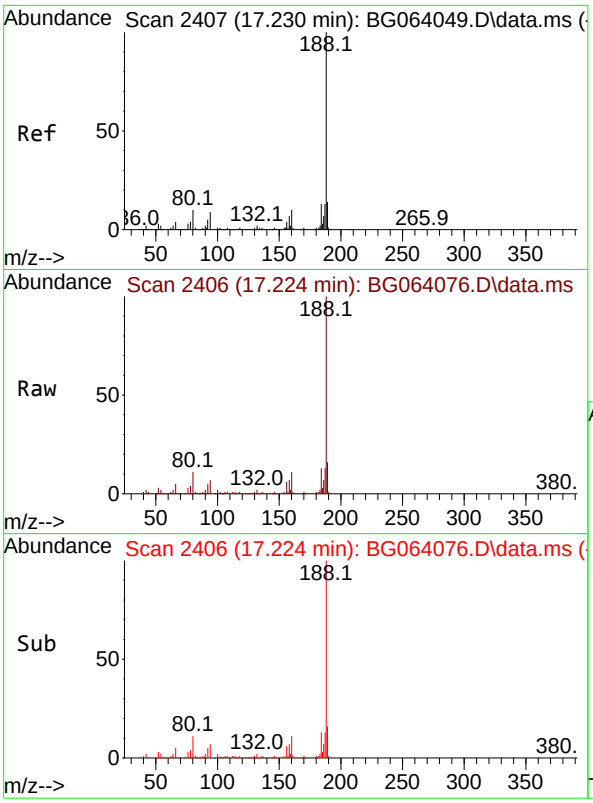


#45
2-Fluorobiphenyl
Concen: 94.896 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:172 Resp: 640087

Ion	Ratio	Lower	Upper
172	100		
171	37.0	28.0	42.0
170	23.7	18.7	28.1



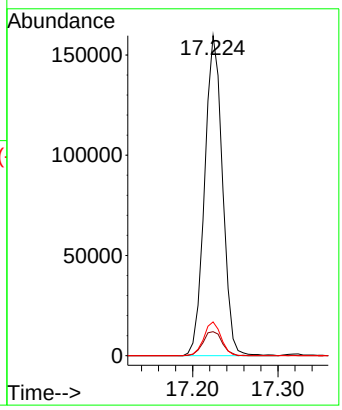


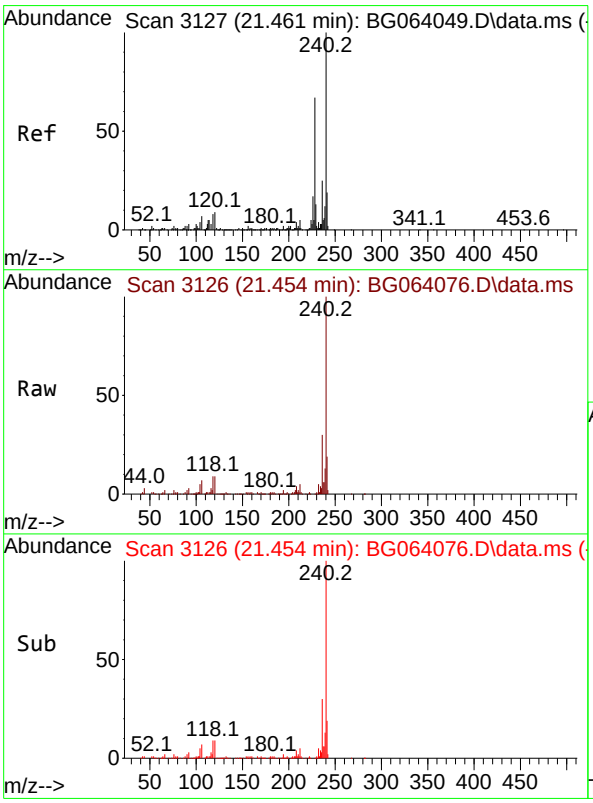
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion:188 Resp: 231933

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.9	10.3
80	10.5	8.1	12.1

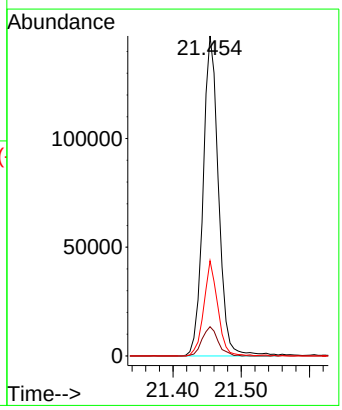


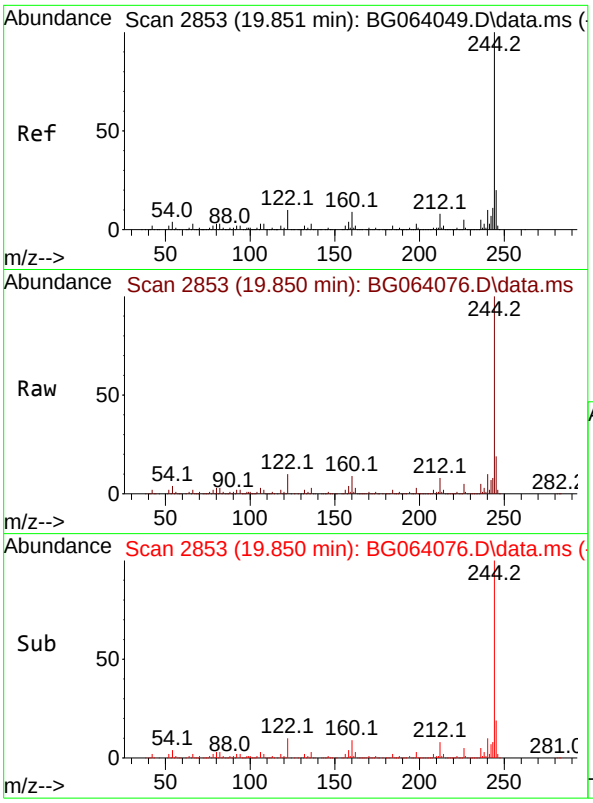


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:240 Resp: 231627

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.2	10.8
236	29.7	20.2	30.2



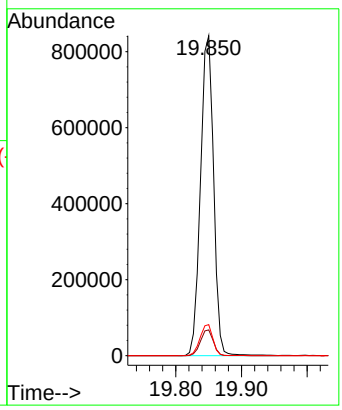


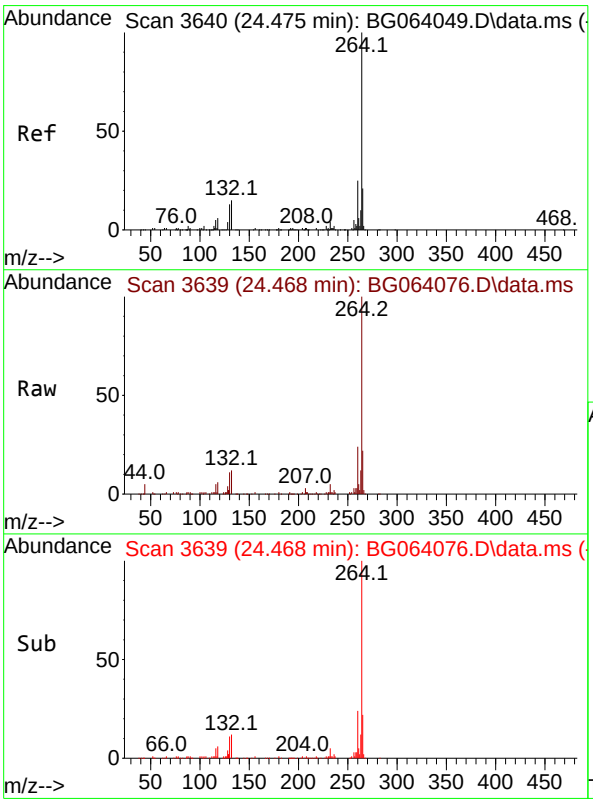
#79
Terphenyl-d14
Concen: 102.267 ng
RT: 19.850 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Instrument :
BNA_G
ClientSampleId :
PB167020TB

Tgt Ion:244 Resp: 1171504

Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.4
122	9.7	8.0	12.0

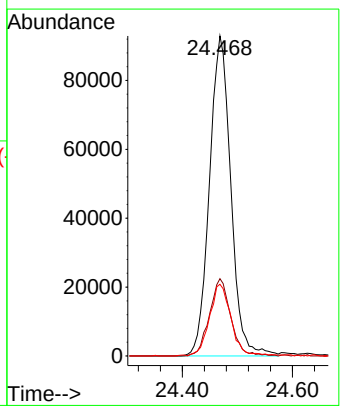




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3639
Delta R.T. -0.006 min
Lab File: BG064076.D
Acq: 10 Mar 2025 11:24

Tgt Ion:264 Resp: 250695

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	22.4	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141892.D
Acq On : 07 Mar 2025 18:01
Operator : RC/JU
Sample : Q1488-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 21:45:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

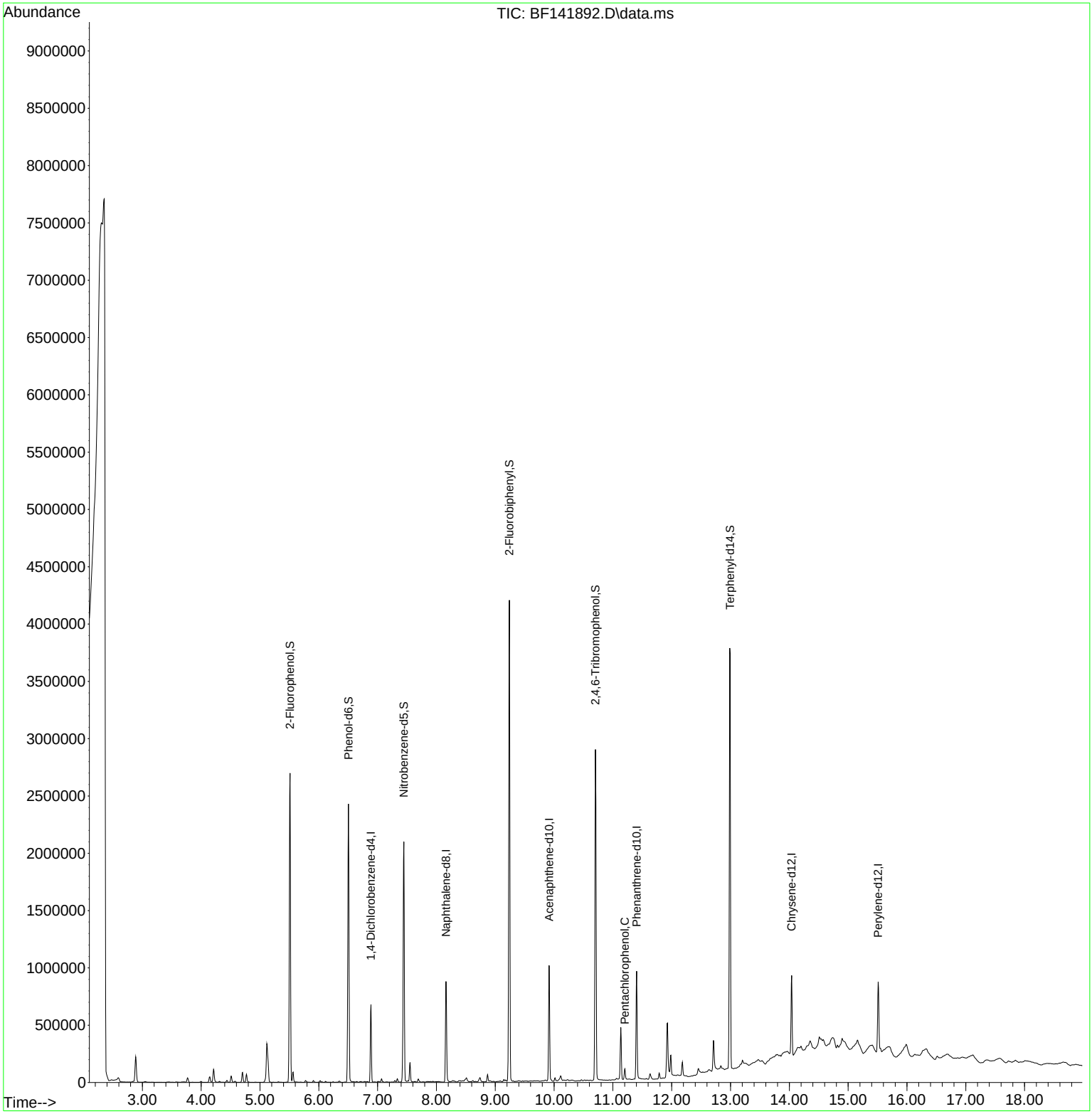
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140140	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	544005	20.000	ng	#-0.01
39) Acenaphthene-d10	9.916	164	296494	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	468306	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	340144	20.000	ng	#-0.01
86) Perylene-d12	15.510	264	371112	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1051857	119.866	ng	0.01
7) Phenol-d6	6.504	99	1170047	102.440	ng	0.00
23) Nitrobenzene-d5	7.445	82	964644	113.345	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	517553	185.933	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1845811	99.822	ng	0.00
79) Terphenyl-d14	12.992	244	1875451	89.207	ng	0.00
Target Compounds						Qvalue
70) Pentachlorophenol	11.204	266	15420	4.209	ng	97

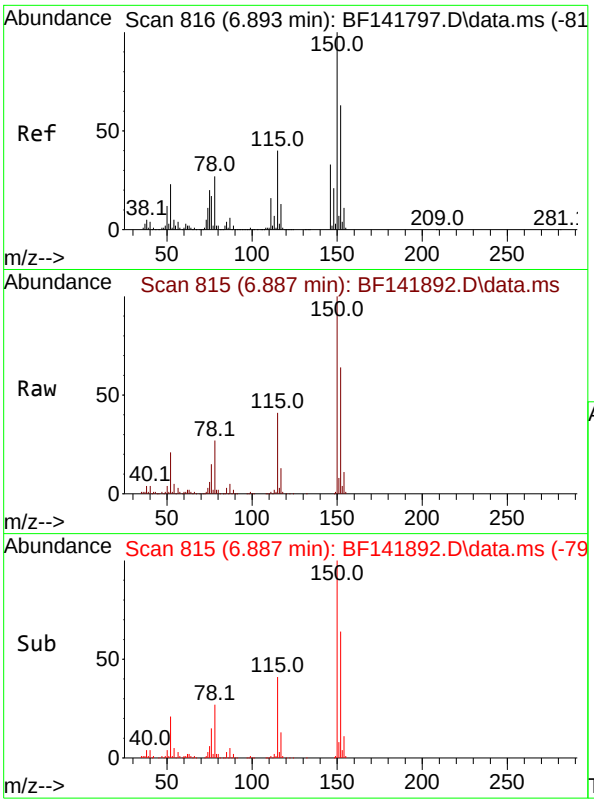
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141892.D
Acq On : 07 Mar 2025 18:01
Operator : RC/JU
Sample : Q1488-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 21:45:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



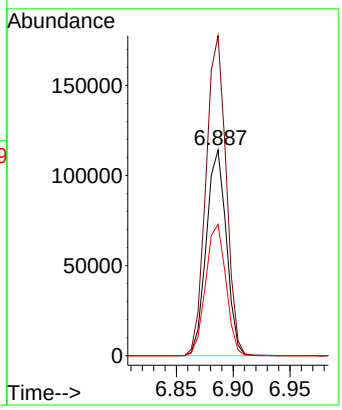


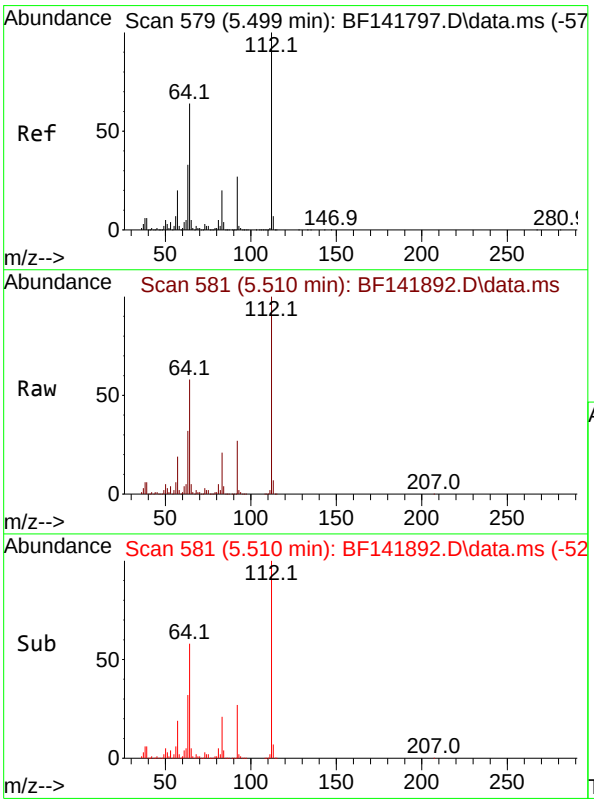
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:152 Resp: 140140

Ion	Ratio	Lower	Upper
152	100		
150	155.6	127.5	191.3
115	63.9	51.4	77.2

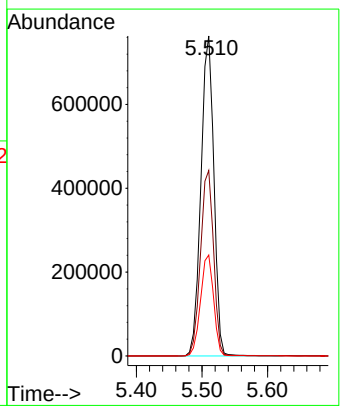


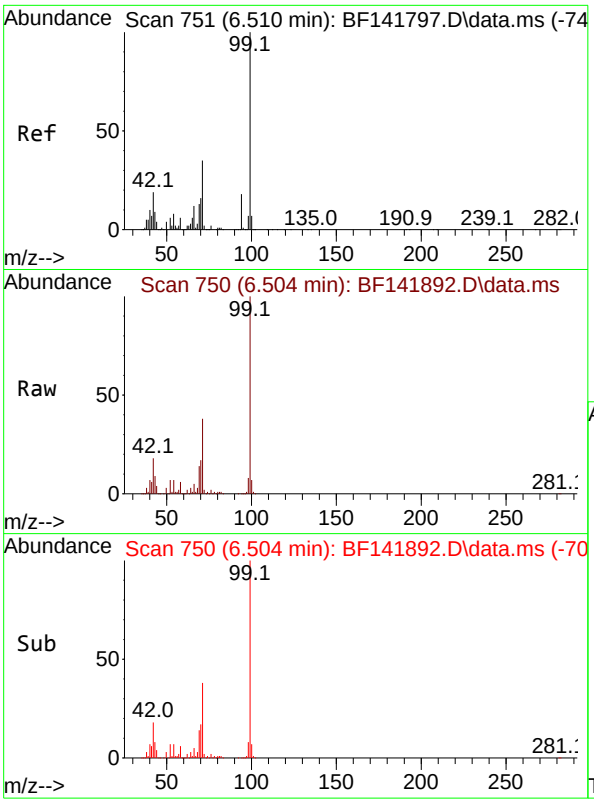


#5
2-Fluorophenol
Concen: 119.866 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:112 Resp: 1051857

Ion	Ratio	Lower	Upper
112	100		
64	58.0	51.3	76.9
63	31.5	26.2	39.4



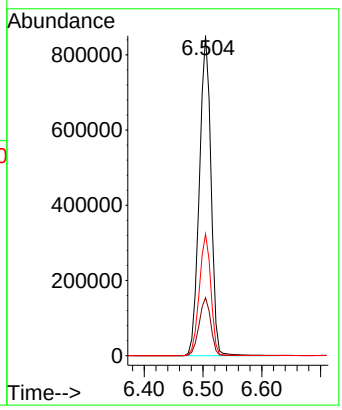


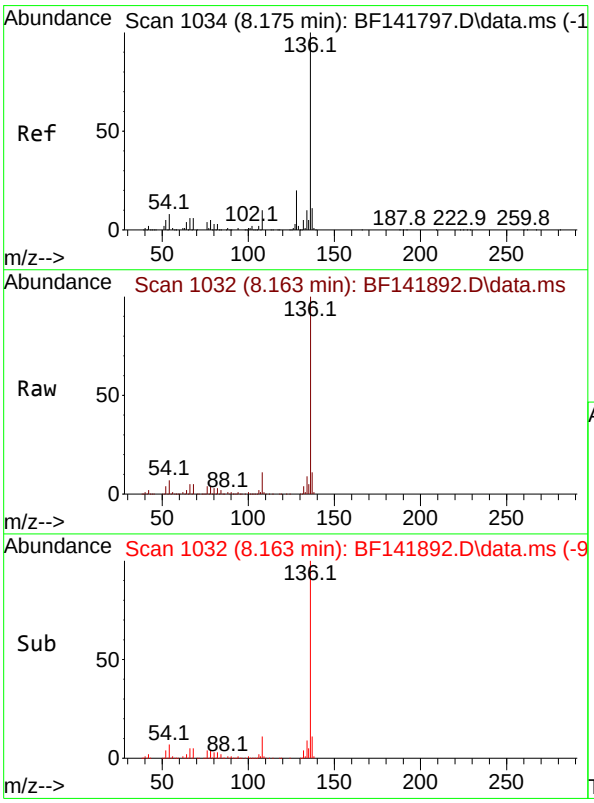
#7
Phenol-d6
Concen: 102.440 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 99 Resp: 1170047

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.2	22.8
71	38.0	28.2	42.2

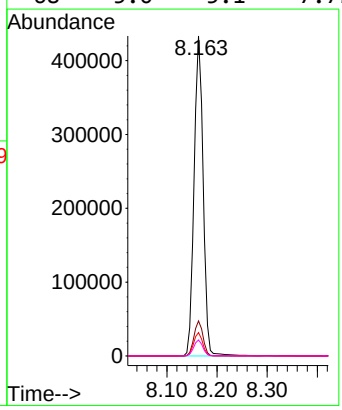


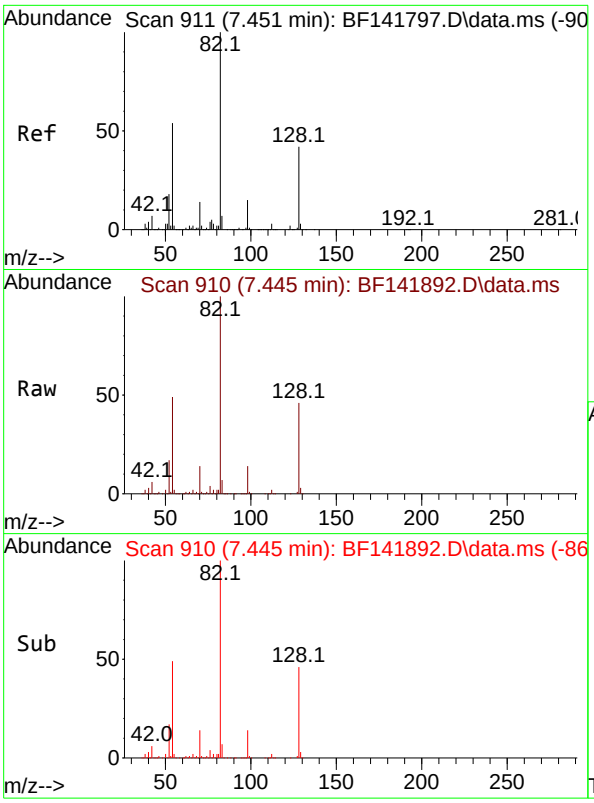


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:136 Resp: 544005

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.3	6.9	10.3
68	5.0	5.1	7.7#



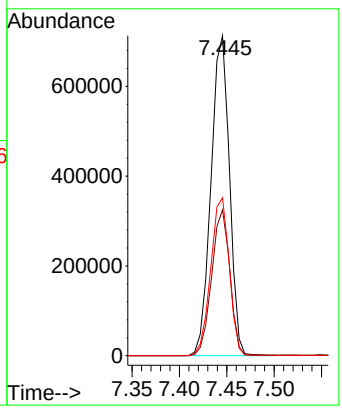


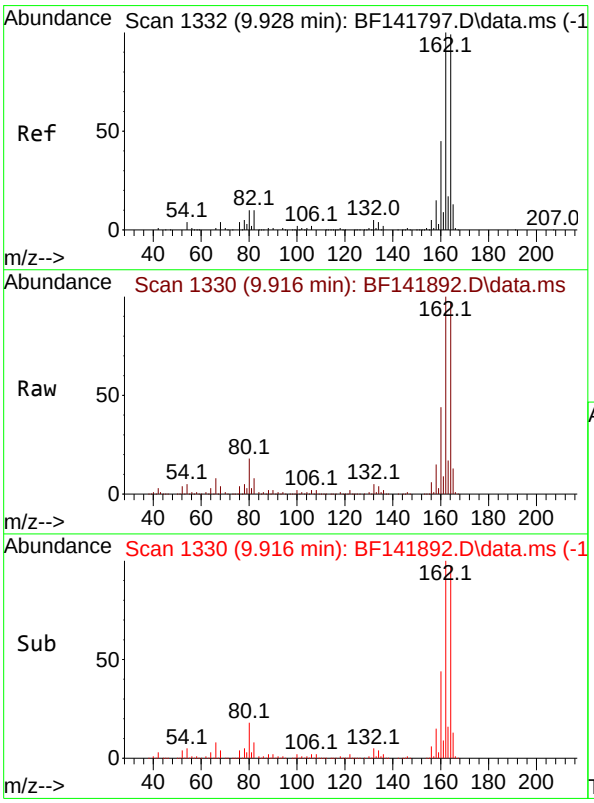
#23
Nitrobenzene-d5
Concen: 113.345 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion: 82 Resp: 964644

Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.5	50.3
54	49.3	42.7	64.1

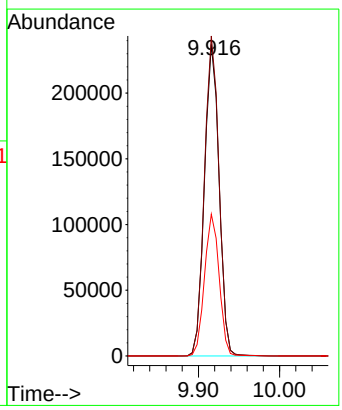


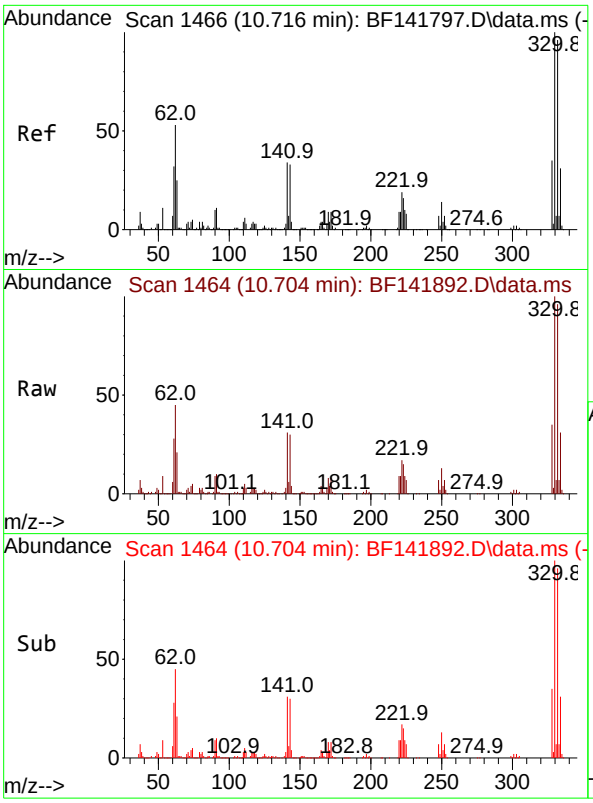


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:164 Resp: 296494

Ion	Ratio	Lower	Upper
164	100		
162	102.7	80.6	120.8
160	45.5	36.3	54.5



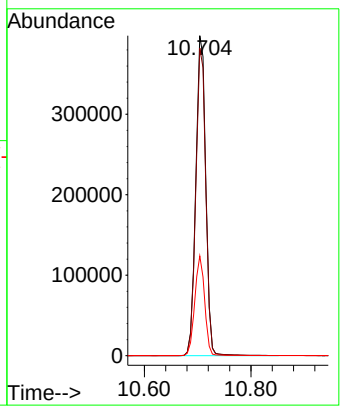


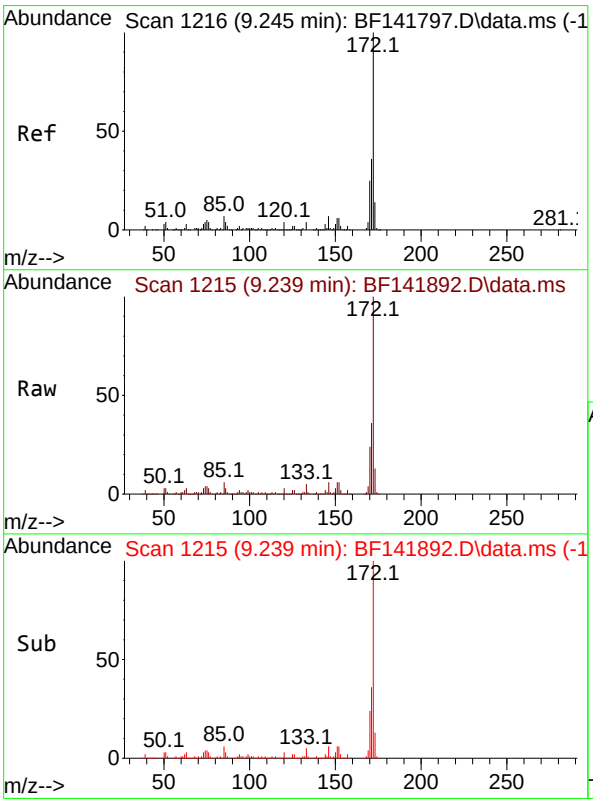
#42
2,4,6-Tribromophenol
Concen: 185.933 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:330 Resp: 517553

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	115.0
141	30.8	29.0	43.4

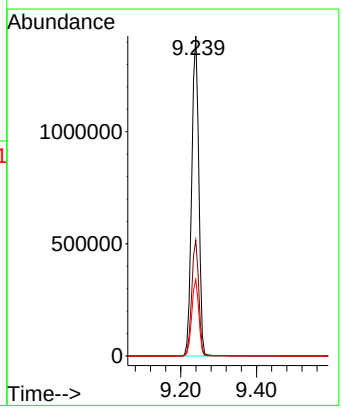


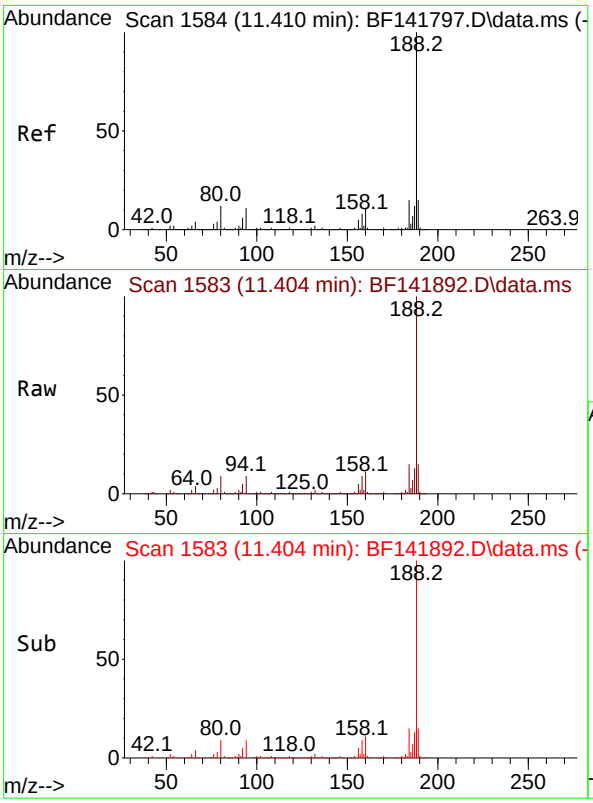


#45
2-Fluorobiphenyl
Concen: 99.822 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:172 Resp: 1845811

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.2	43.8
170	23.8	19.7	29.5



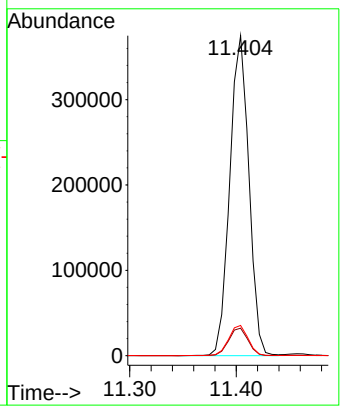


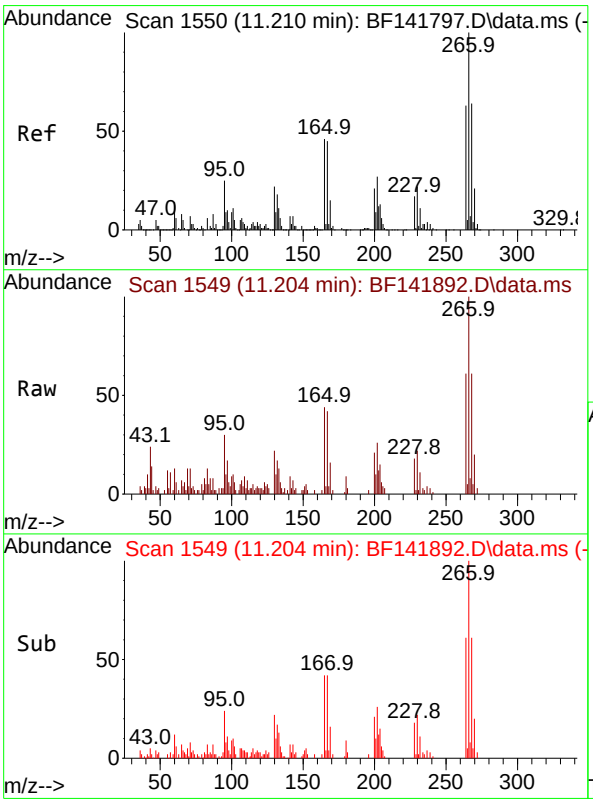
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:188 Resp: 468306

Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.9	13.3#
80	9.4	9.7	14.5#

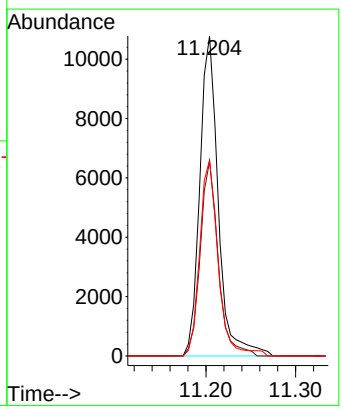


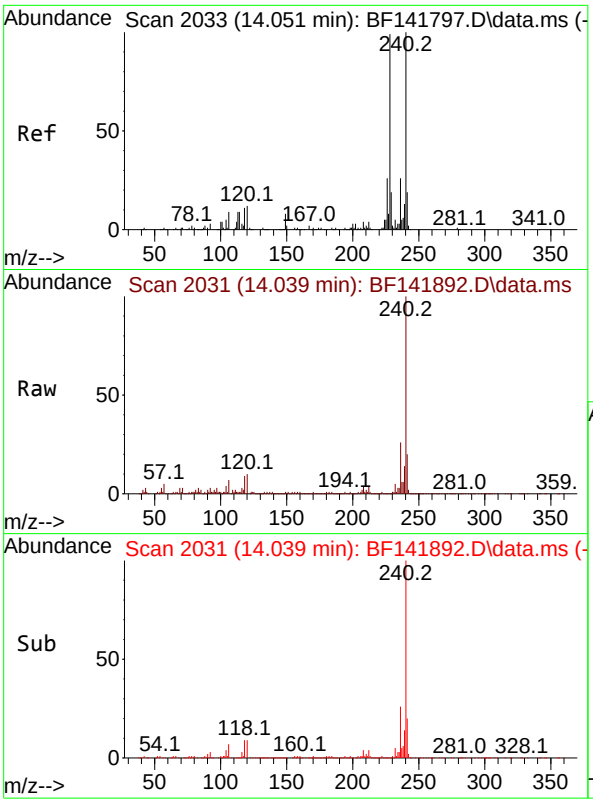


#70
Pentachlorophenol
Concen: 4.209 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:266 Resp: 15420

Ion	Ratio	Lower	Upper
266	100		
268	60.8	50.9	76.3
264	61.3	50.2	75.4



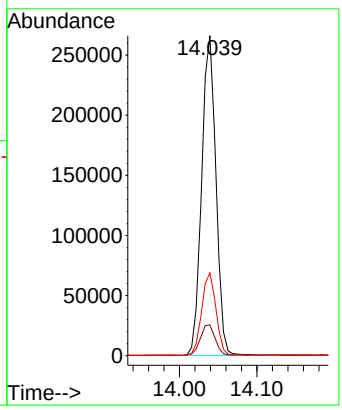


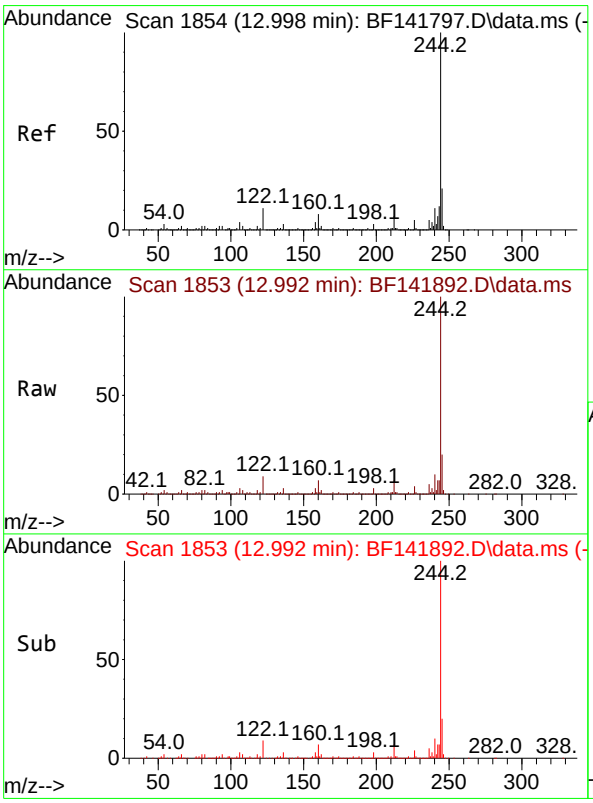
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:240 Resp: 340144

Ion	Ratio	Lower	Upper
240	100		
120	9.6	9.7	14.5#
236	25.9	21.0	31.4

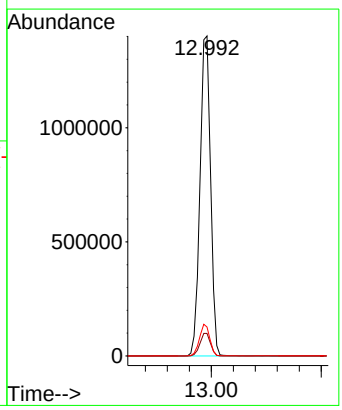


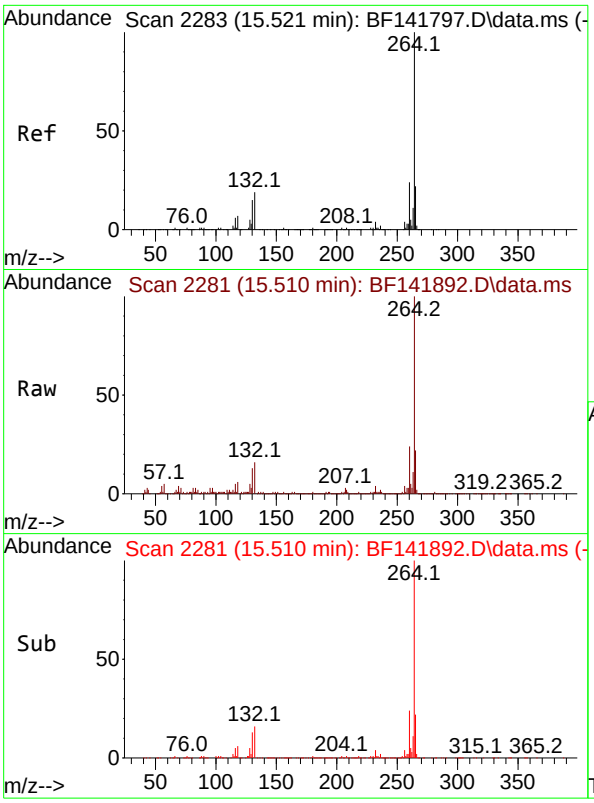


#79
Terphenyl-d14
Concen: 89.207 ng
RT: 12.992 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Tgt Ion:244 Resp: 1875451

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.1	9.0	13.6



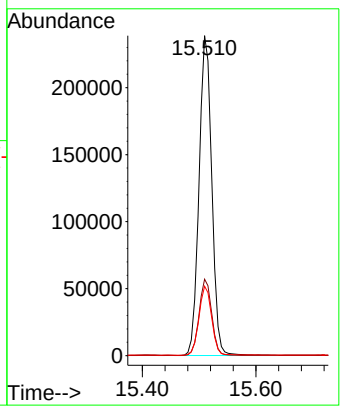


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141892.D
Acq: 07 Mar 2025 18:01

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Tgt Ion:264 Resp: 371112

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.7	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064077.D
Acq On : 10 Mar 2025 12:22
Operator : RC/JU
Sample : Q1488-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 10 14:01:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

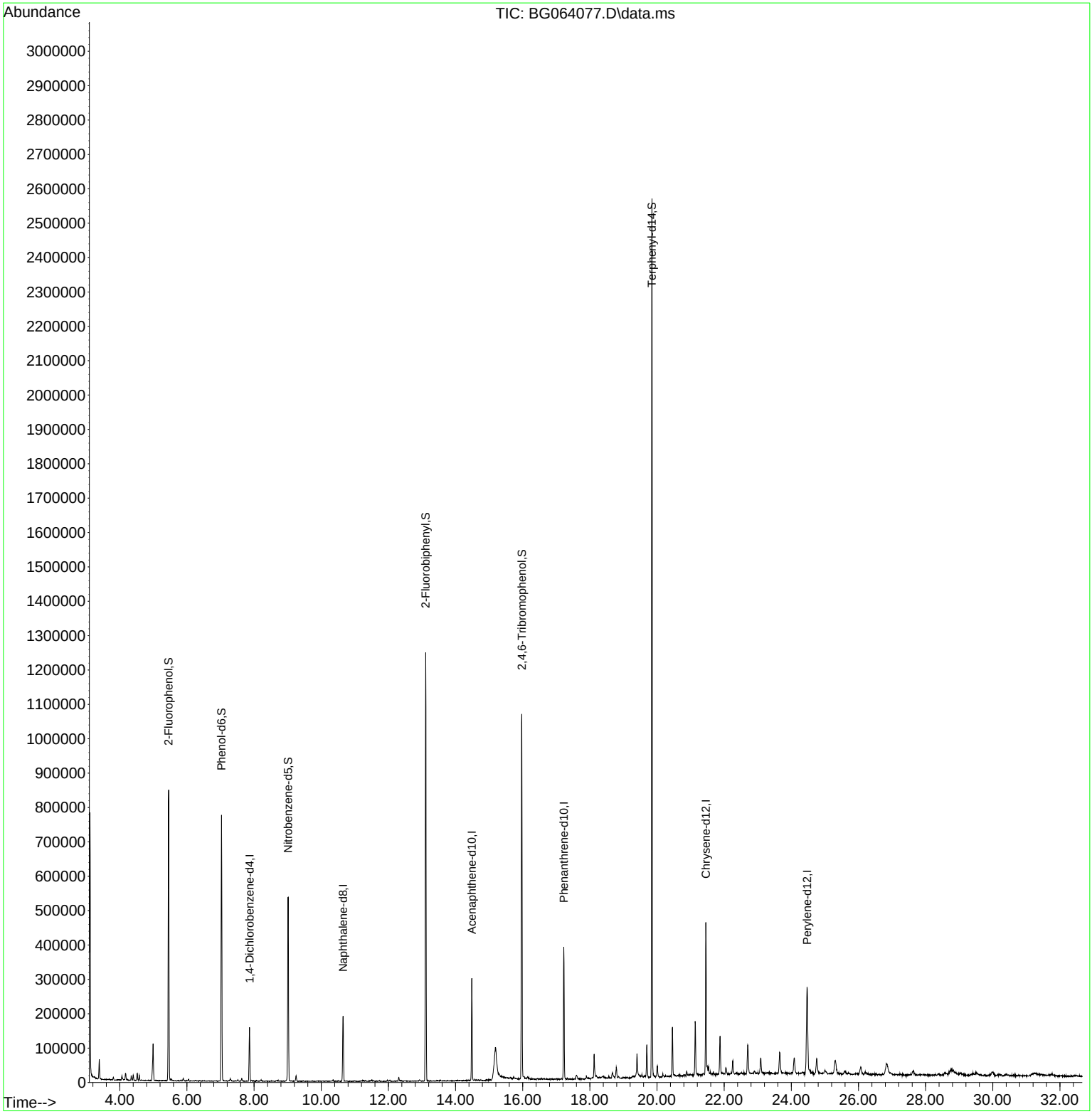
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.865	152	37069	20.000	ng	0.00
21) Naphthalene-d8	10.650	136	149931	20.000	ng	0.00
39) Acenaphthene-d10	14.487	164	95174	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	219929	20.000	ng	0.00
76) Chrysene-d12	21.455	240	243609	20.000	ng	0.00
86) Perylene-d12	24.475	264	255654	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.456	112	315892	133.062	ng	0.00
7) Phenol-d6	7.031	99	370340	114.671	ng	0.00
23) Nitrobenzene-d5	9.016	82	289407	106.670	ng	0.00
42) 2,4,6-Tribromophenol	15.973	330	180035	170.177	ng	0.00
45) 2-Fluorobiphenyl	13.112	172	593715	94.689	ng	0.00
79) Terphenyl-d14	19.851	244	1204312	99.960	ng	0.00
Target Compounds						Qvalue

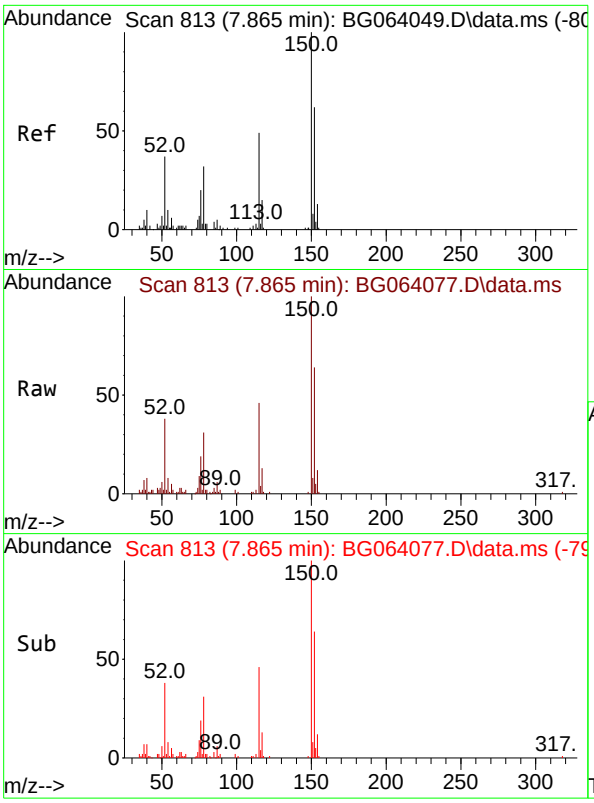
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064077.D
Acq On : 10 Mar 2025 12:22
Operator : RC/JU
Sample : Q1488-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 10 14:01:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



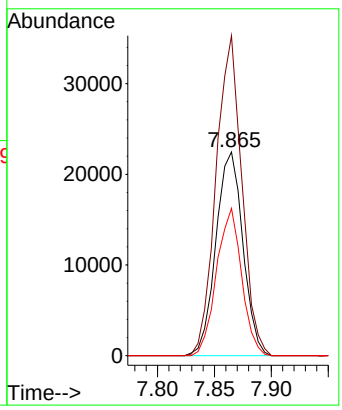


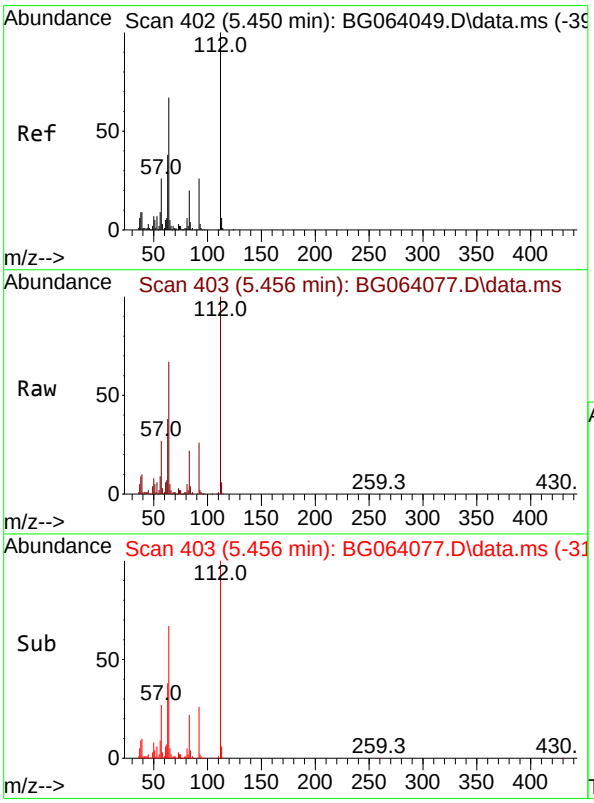
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. -0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion:152 Resp: 37069

Ion	Ratio	Lower	Upper
152	100		
150	157.1	129.2	193.8
115	72.3	63.0	94.6

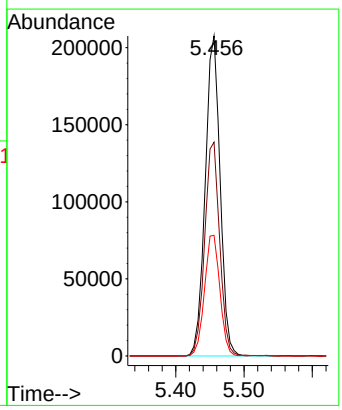


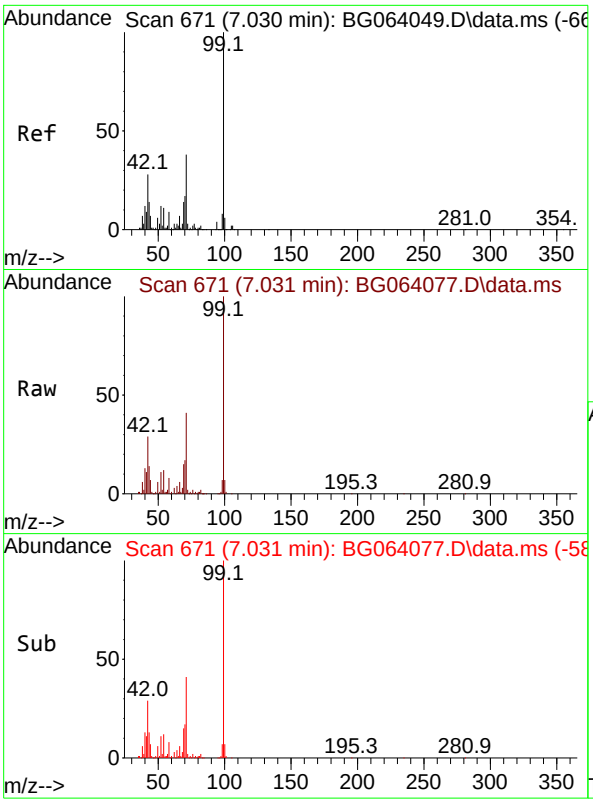


#5
2-Fluorophenol
Concen: 133.062 ng
RT: 5.456 min Scan# 403
Delta R.T. 0.006 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:112 Resp: 315892

Ion	Ratio	Lower	Upper
112	100		
64	66.8	53.7	80.5
63	37.7	30.2	45.4



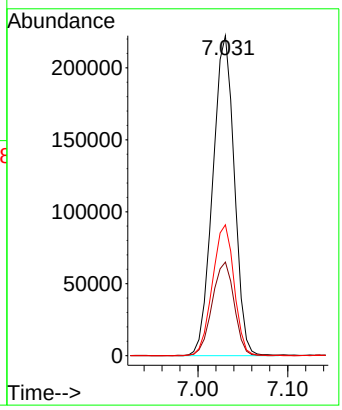


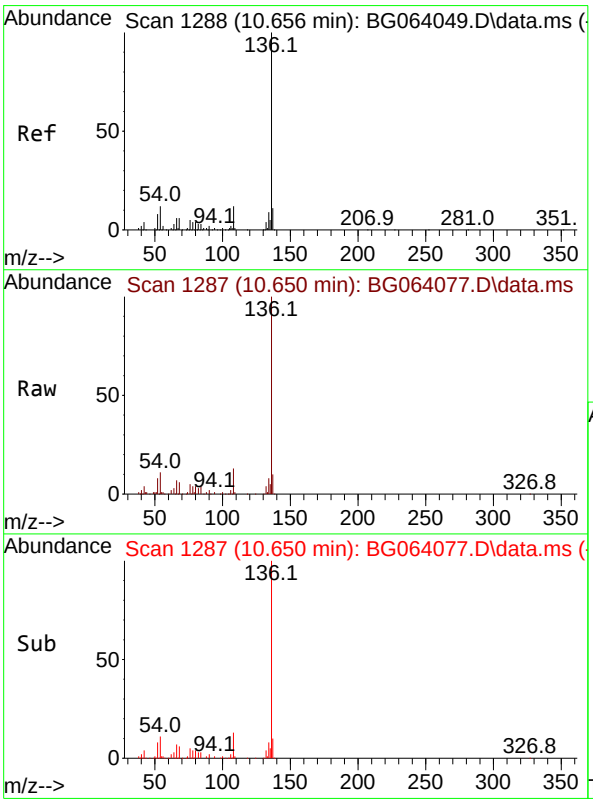
#7
Phenol-d6
Concen: 114.671 ng
RT: 7.031 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion: 99 Resp: 370340

Ion	Ratio	Lower	Upper
99	100		
42	29.2	22.7	34.1
71	40.9	30.6	46.0

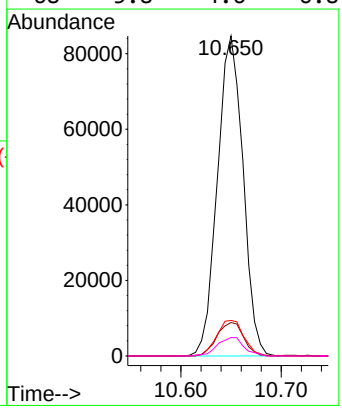


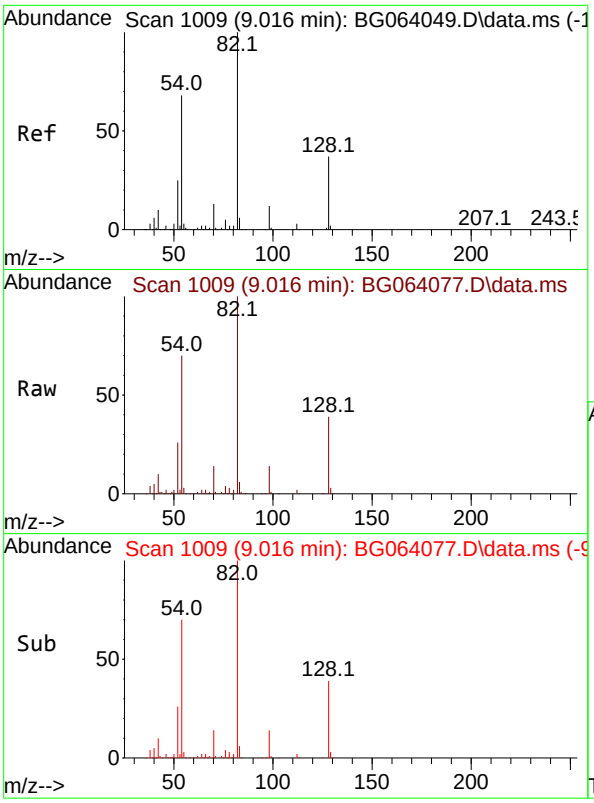


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.650 min Scan# 1287
Delta R.T. -0.006 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:136 Resp: 149931

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.5	12.7
54	11.1	9.9	14.9
68	5.8	4.6	6.8



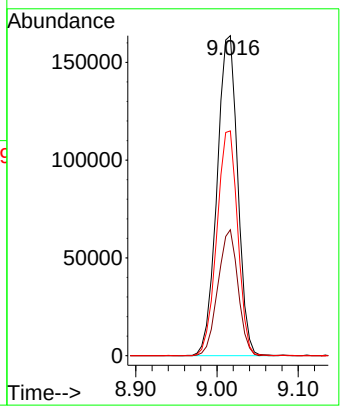


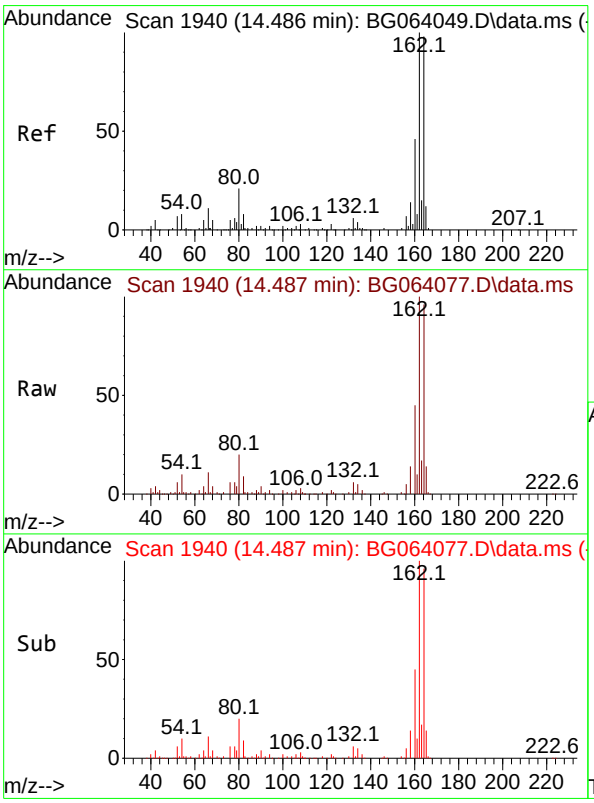
#23
Nitrobenzene-d5
Concen: 106.670 ng
RT: 9.016 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion: 82 Resp: 289407

Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.0	45.0
54	70.2	54.7	82.1

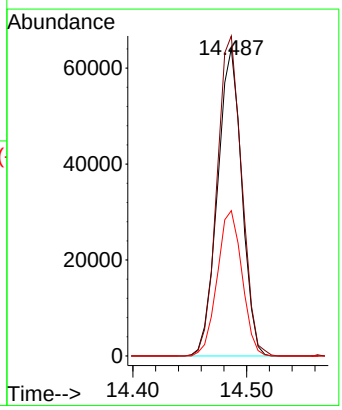


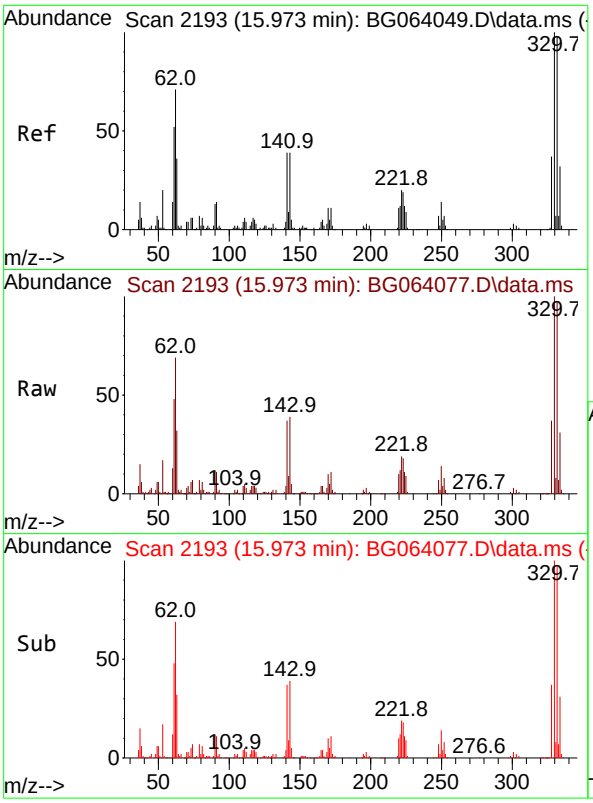


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.487 min Scan# 1940
Delta R.T. 0.001 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:164 Resp: 95174

Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.4	122.0
160	47.3	37.0	55.6



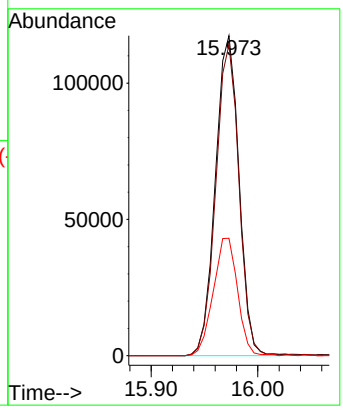


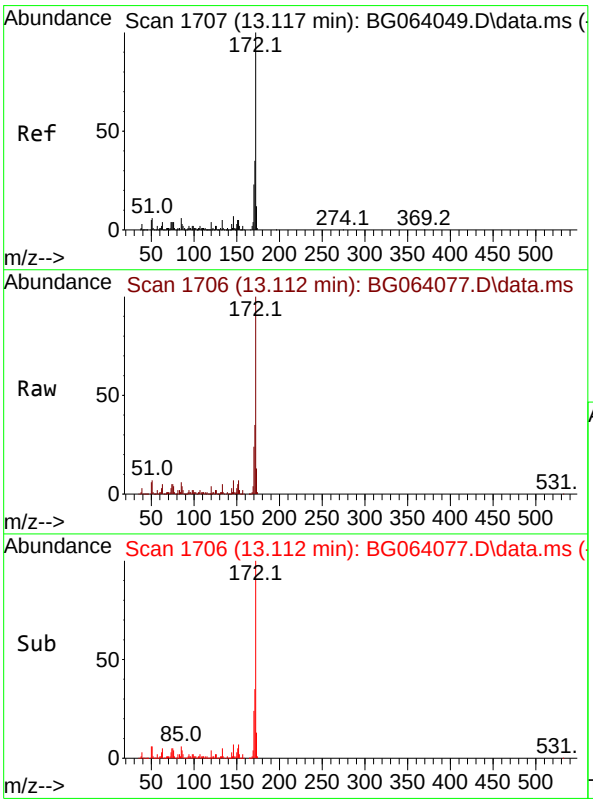
#42
2,4,6-Tribromophenol
Concen: 170.177 ng
RT: 15.973 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion:330 Resp: 180035

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.7	115.1
141	38.0	29.7	44.5

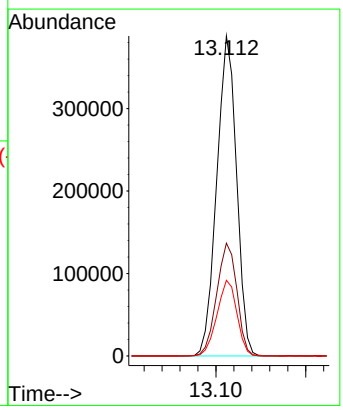


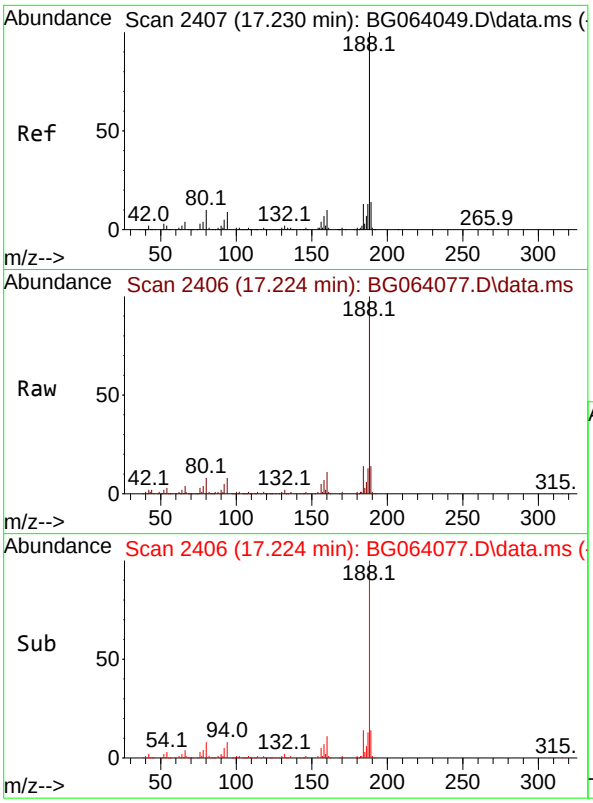


#45
2-Fluorobiphenyl
Concen: 94.689 ng
RT: 13.112 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:172 Resp: 593715

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.0	42.0
170	23.7	18.7	28.1



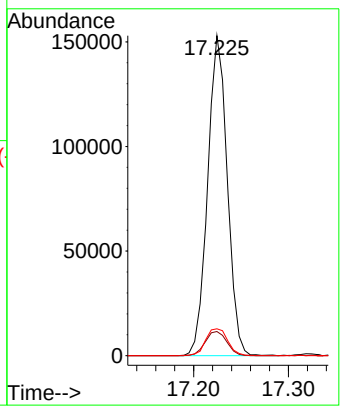


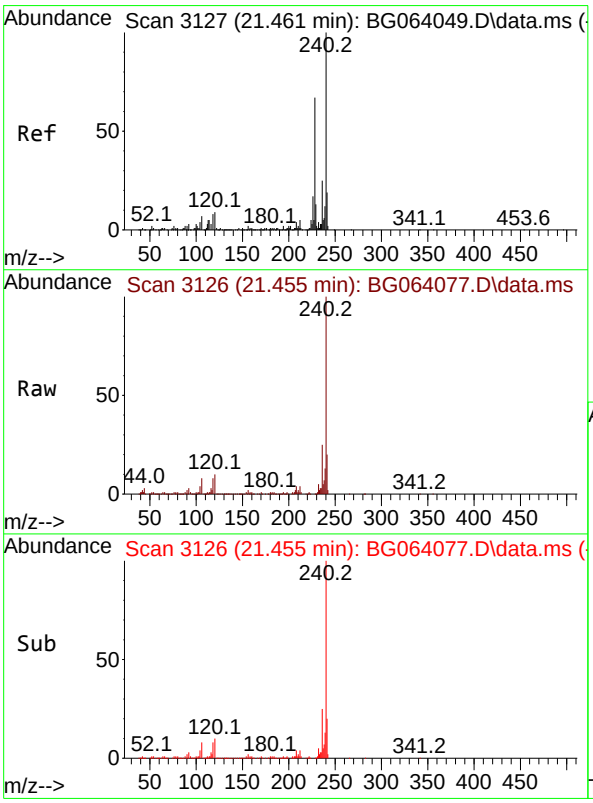
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion:188 Resp: 219929

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.9	10.3
80	8.4	8.1	12.1

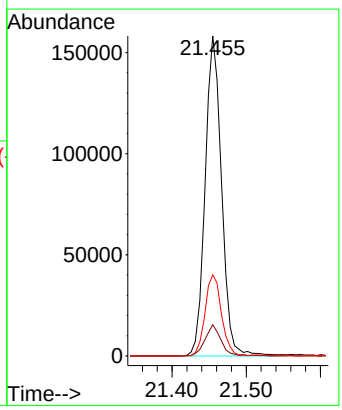


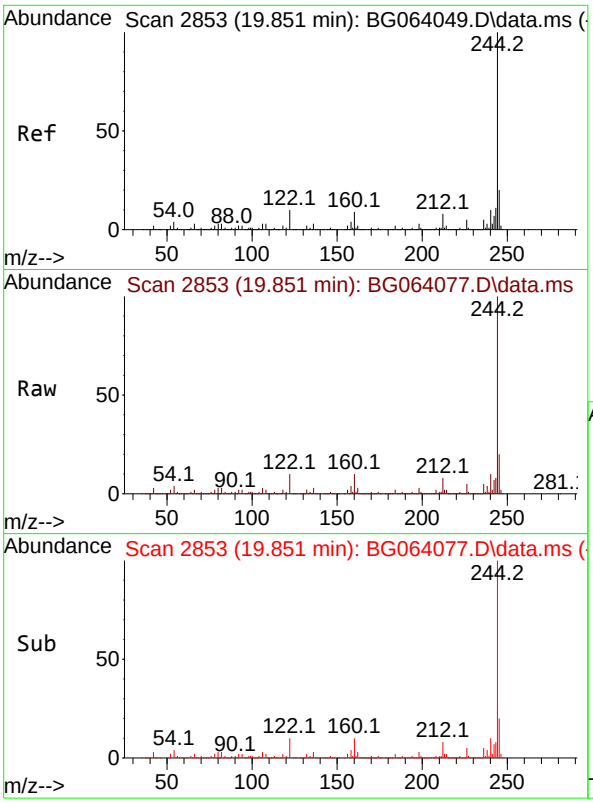


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.455 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:240 Resp: 243609

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.2	10.8
236	25.3	20.2	30.2



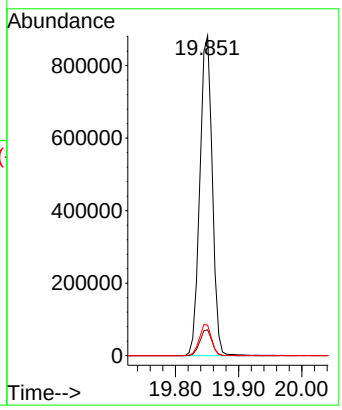


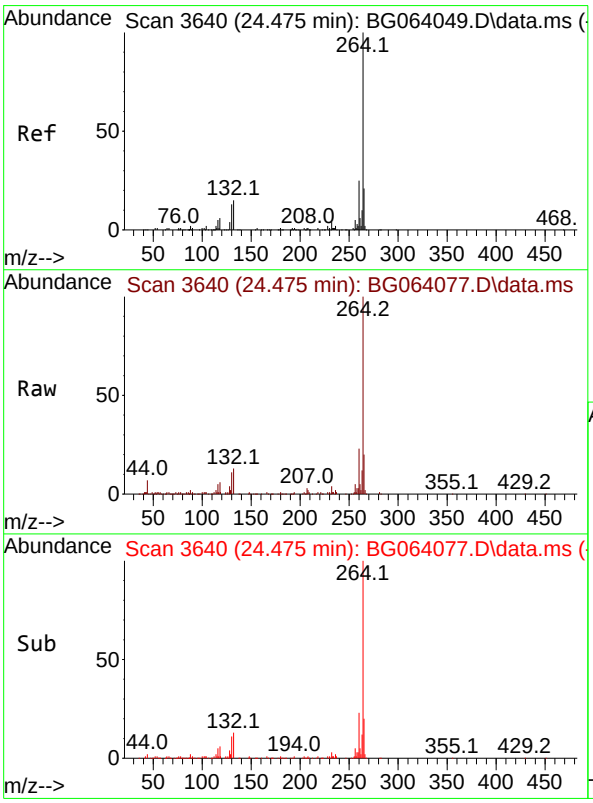
#79
Terphenyl-d14
Concen: 99.960 ng
RT: 19.851 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Instrument :
BNA_G
ClientSampleId :
ENV-101-SB02

Tgt Ion:244 Resp: 1204312

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	9.5	8.0	12.0

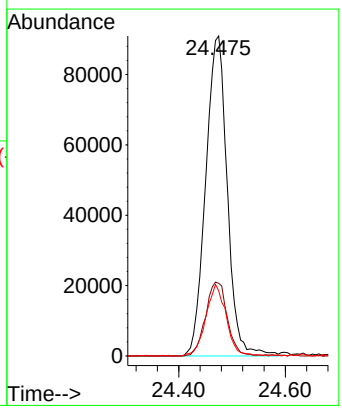




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.475 min Scan# 3640
Delta R.T. 0.000 min
Lab File: BG064077.D
Acq: 10 Mar 2025 12:22

Tgt Ion:264 Resp: 255654

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.6	29.4
265	20.4	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064078.D
Acq On : 10 Mar 2025 13:03
Operator : RC/JU
Sample : Q1488-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 10 14:39:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

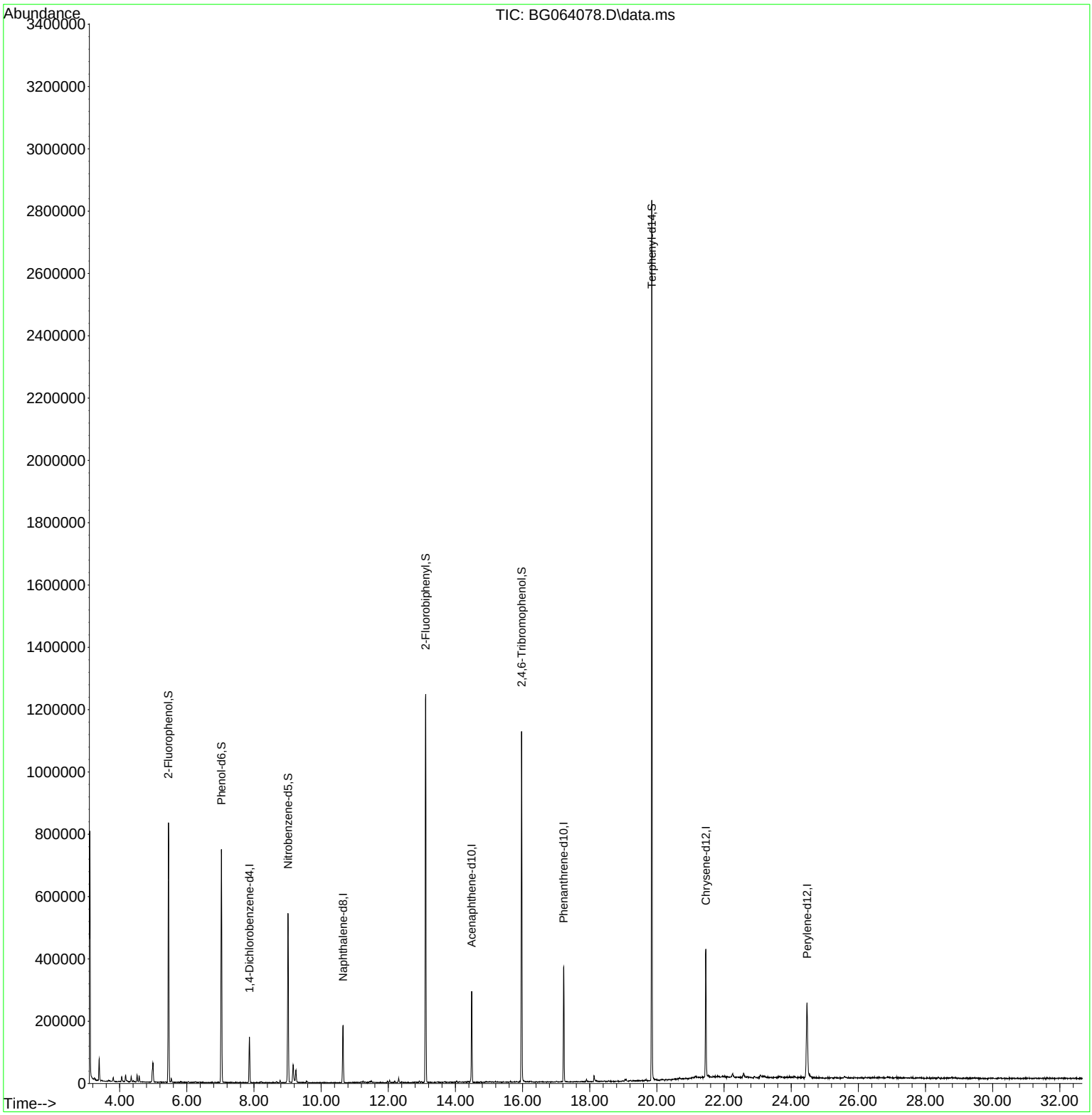
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.862	152	35165	20.000	ng	0.00
21) Naphthalene-d8	10.652	136	144374	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	92311	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	221718	20.000	ng	0.00
76) Chrysene-d12	21.457	240	232567	20.000	ng	0.00
86) Perylene-d12	24.472	264	240035	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.453	112	310073	137.683	ng	0.00
7) Phenol-d6	7.027	99	365905	119.432	ng	0.00
23) Nitrobenzene-d5	9.013	82	285483	109.274	ng	0.00
42) 2,4,6-Tribromophenol	15.970	330	183023	178.367	ng	0.00
45) 2-Fluorobiphenyl	13.114	172	617599	101.553	ng	0.00
79) Terphenyl-d14	19.848	244	1245450	108.283	ng	0.00
Target Compounds						Qvalue

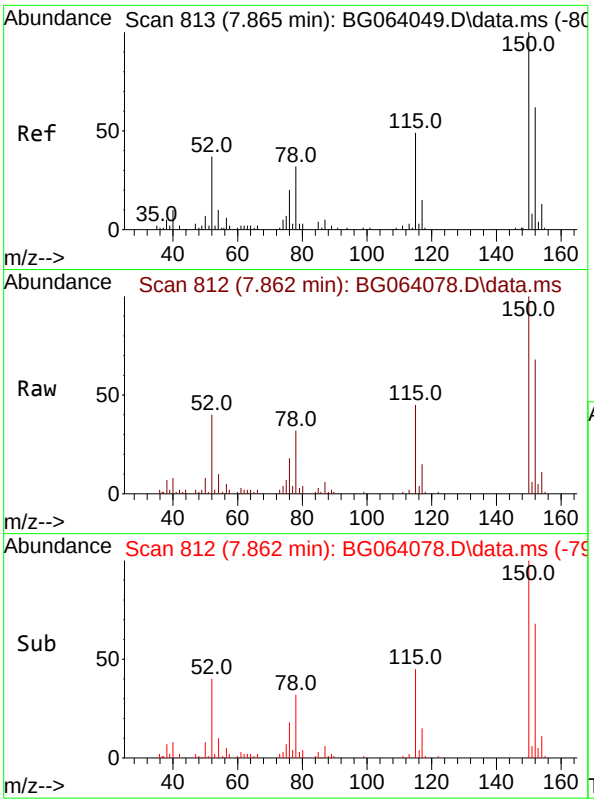
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064078.D
Acq On : 10 Mar 2025 13:03
Operator : RC/JU
Sample : Q1488-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 10 14:39:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



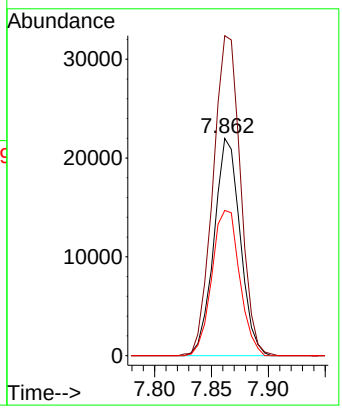


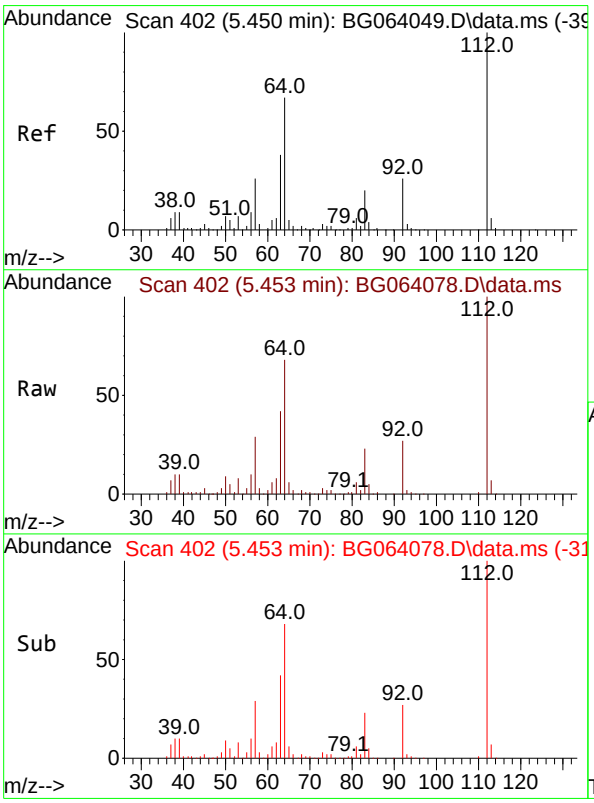
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.862 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion:152 Resp: 35165

Ion	Ratio	Lower	Upper
152	100		
150	147.3	129.2	193.8
115	66.9	63.0	94.6

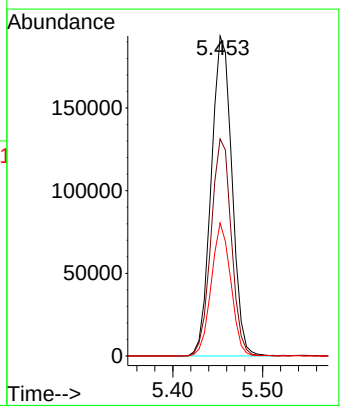


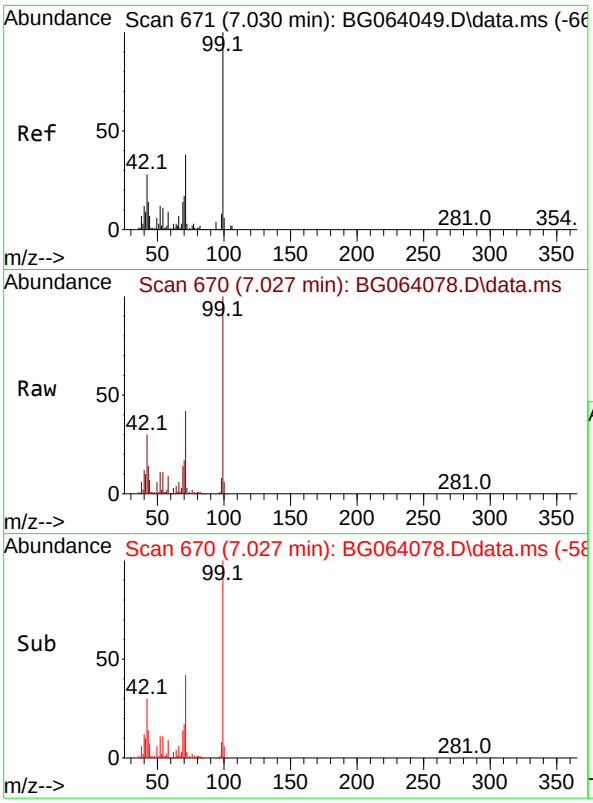


#5
2-Fluorophenol
Concen: 137.683 ng
RT: 5.453 min Scan# 402
Delta R.T. 0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:112 Resp: 310073

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.7	80.5
63	41.6	30.2	45.4



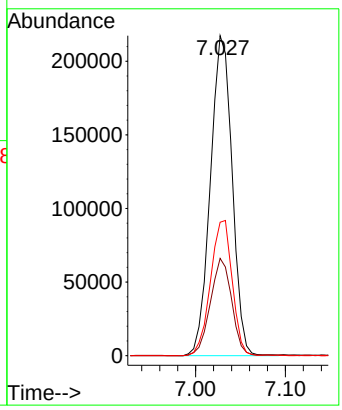


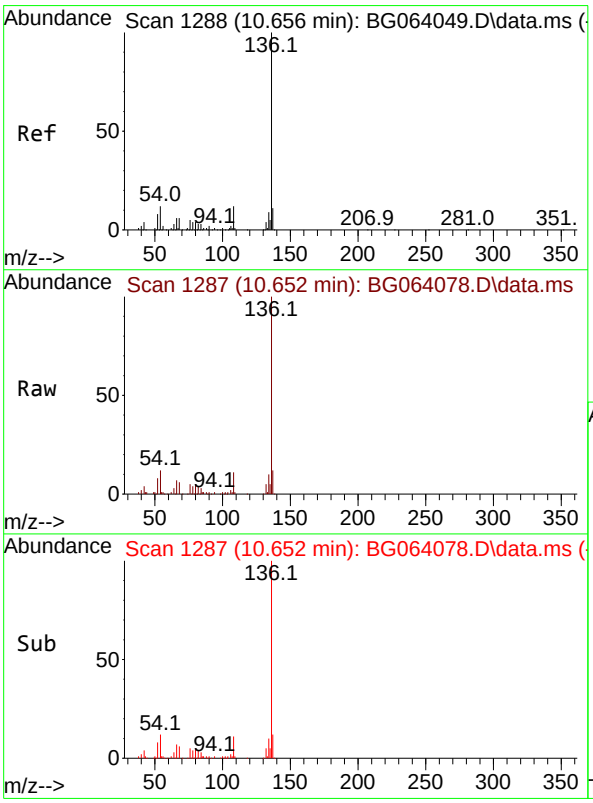
#7
Phenol-d6
Concen: 119.432 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion: 99 Resp: 365905

Ion	Ratio	Lower	Upper
99	100		
42	30.4	22.7	34.1
71	41.7	30.6	46.0

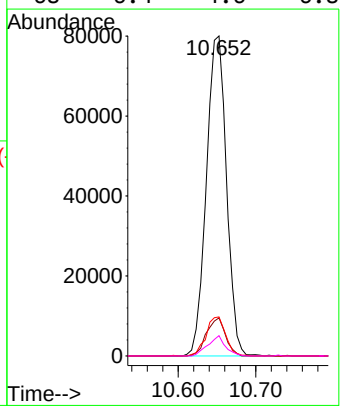


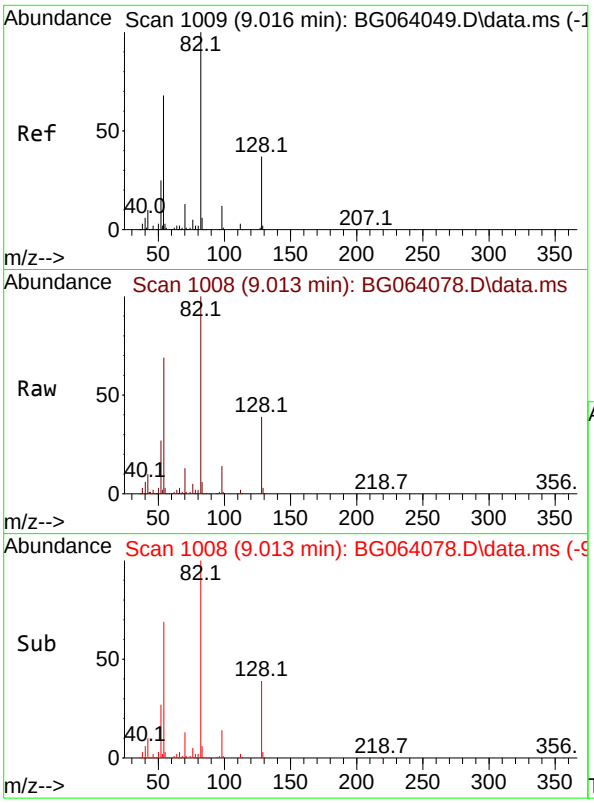


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1287
Delta R.T. -0.004 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:136 Resp: 144374

Ion	Ratio	Lower	Upper
136	100		
137	11.9	8.5	12.7
54	12.2	9.9	14.9
68	6.4	4.6	6.8



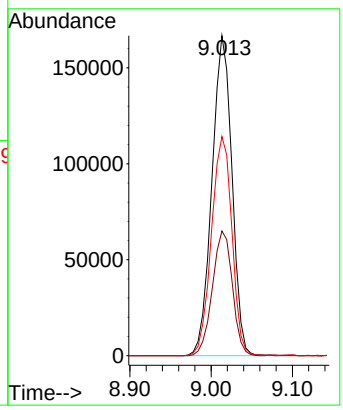


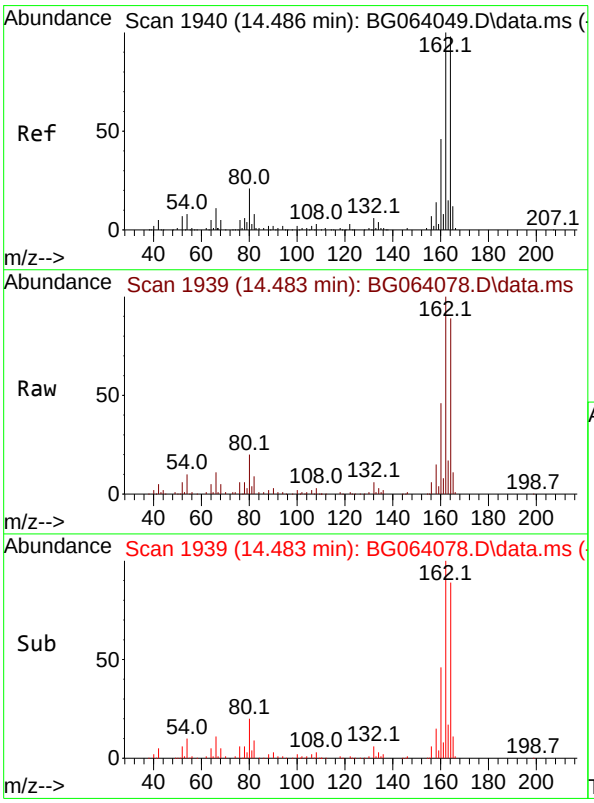
#23
Nitrobenzene-d5
Concen: 109.274 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion: 82 Resp: 285483

Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.0	45.0
54	68.5	54.7	82.1

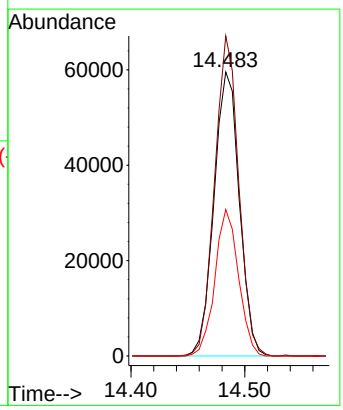


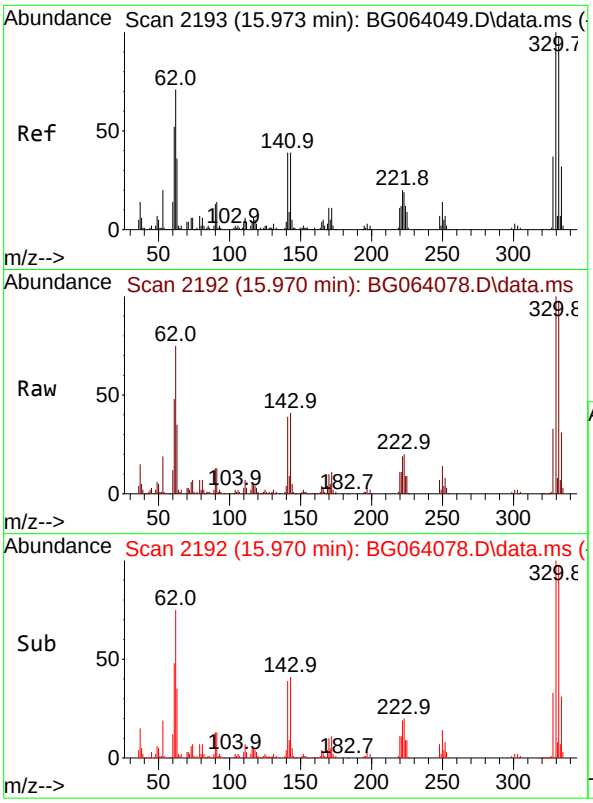


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:164 Resp: 92311

Ion	Ratio	Lower	Upper
164	100		
162	112.7	81.4	122.0
160	51.5	37.0	55.6



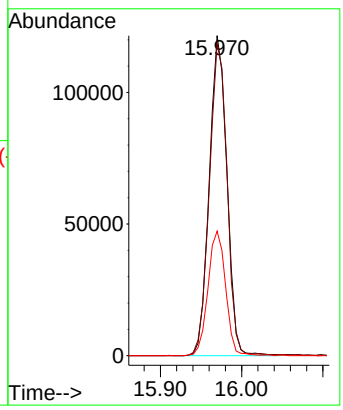


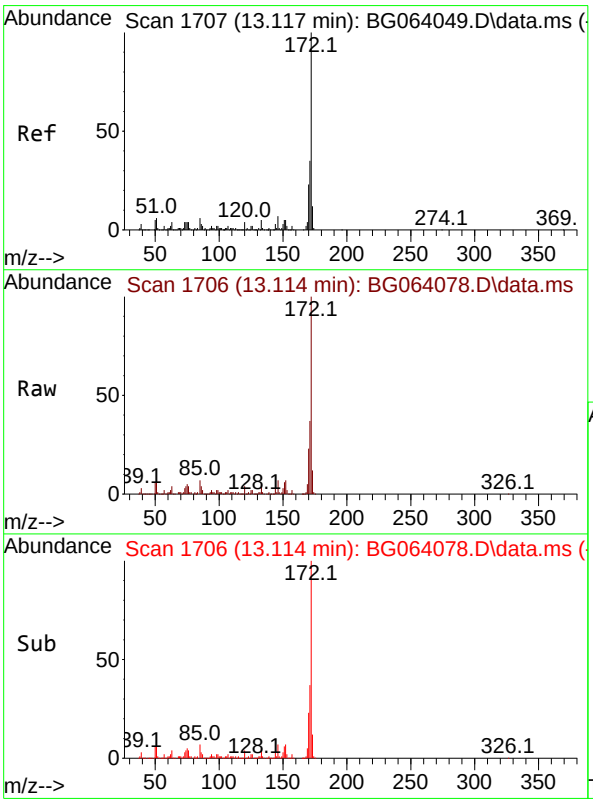
#42
2,4,6-Tribromophenol
Concen: 178.367 ng
RT: 15.970 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion:330 Resp: 183023

Ion	Ratio	Lower	Upper
330	100		
332	98.2	76.7	115.1
141	38.8	29.7	44.5

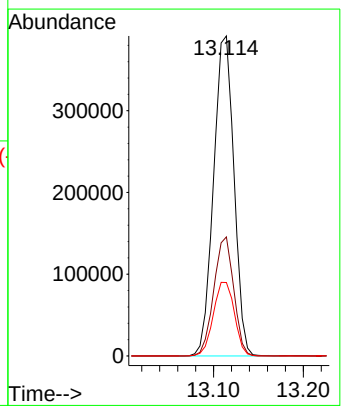


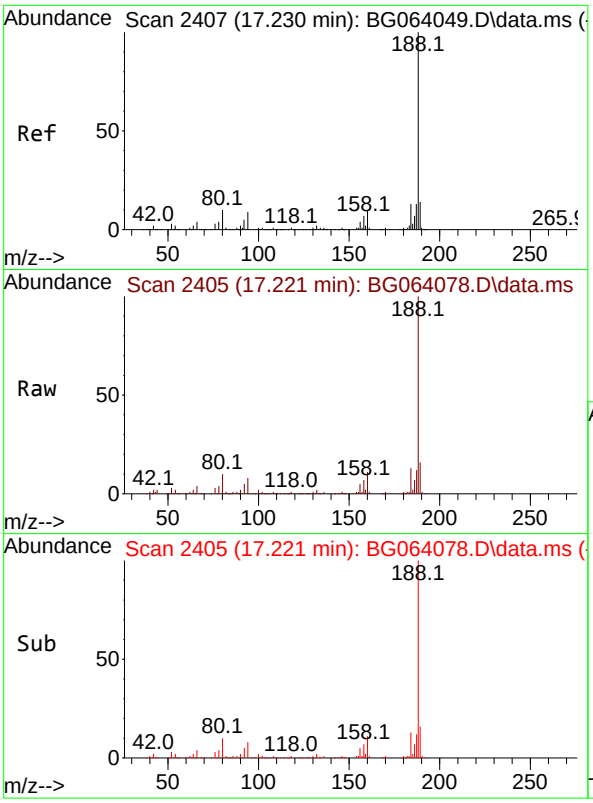


#45
2-Fluorobiphenyl
Concen: 101.553 ng
RT: 13.114 min Scan# 1706
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:172 Resp: 617599

Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.0	42.0
170	23.0	18.7	28.1



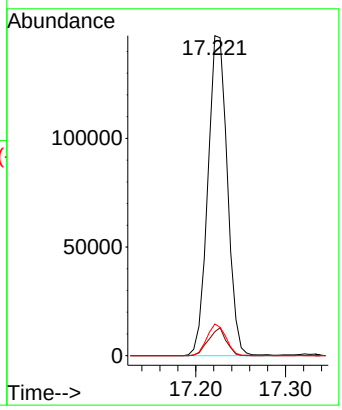


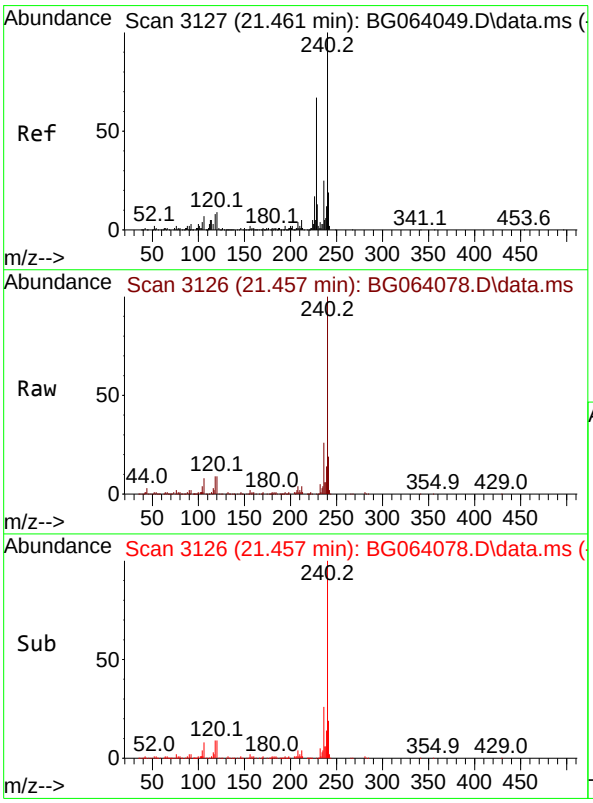
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 24
Delta R.T. -0.009 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion:188 Resp: 221718

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.9	10.3
80	9.9	8.1	12.1

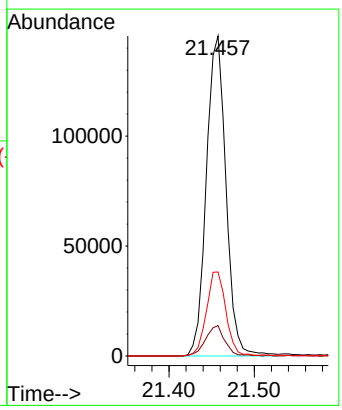


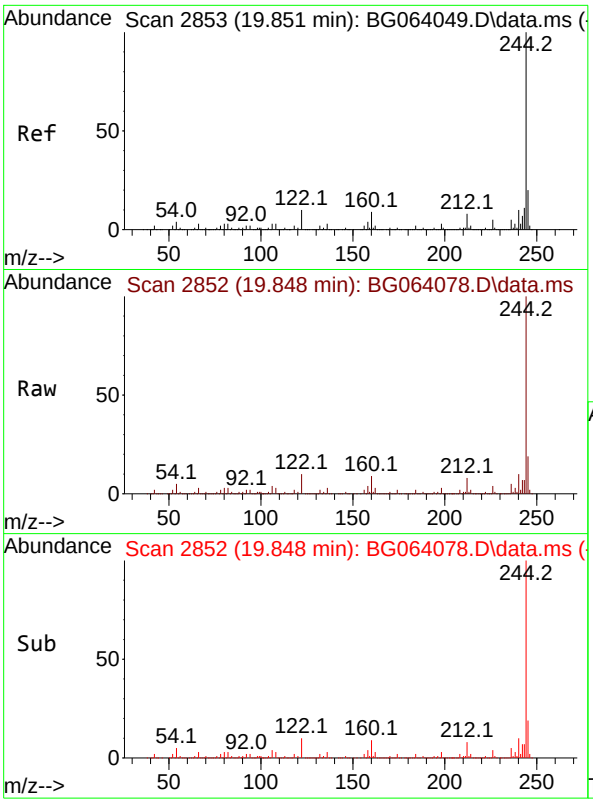


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:240 Resp: 232567

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.2	10.8
236	26.2	20.2	30.2



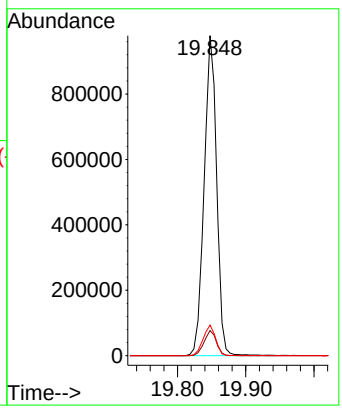


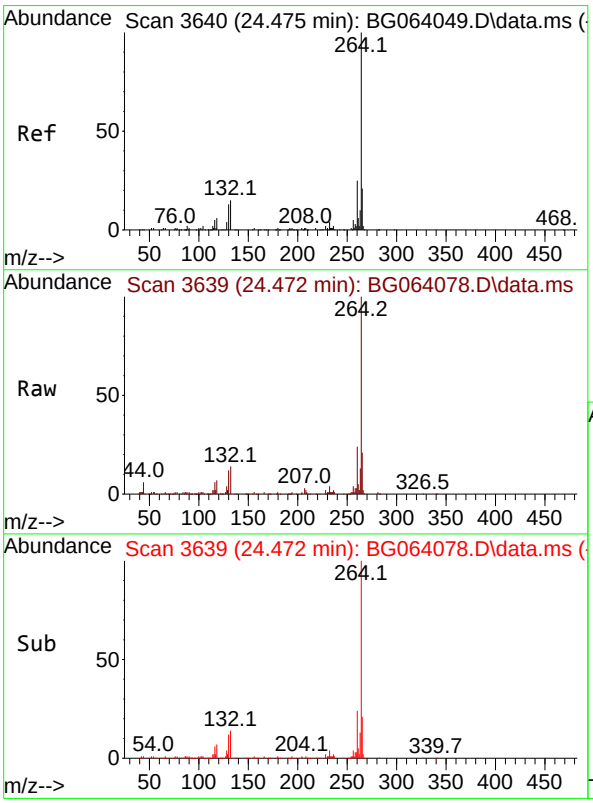
#79
Terphenyl-d14
Concen: 108.283 ng
RT: 19.848 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB01

Tgt Ion:244 Resp: 1245450

Ion	Ratio	Lower	Upper
244	100		
212	7.9	6.2	9.4
122	9.6	8.0	12.0

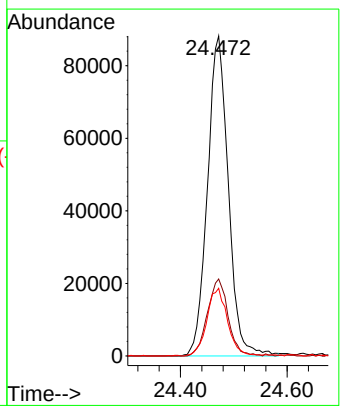




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.472 min Scan# 3639
Delta R.T. -0.003 min
Lab File: BG064078.D
Acq: 10 Mar 2025 13:03

Tgt Ion:264 Resp: 240035

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.6	29.4
265	21.1	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064079.D
Acq On : 10 Mar 2025 13:43
Operator : RC/JU
Sample : Q1488-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 10 15:19:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

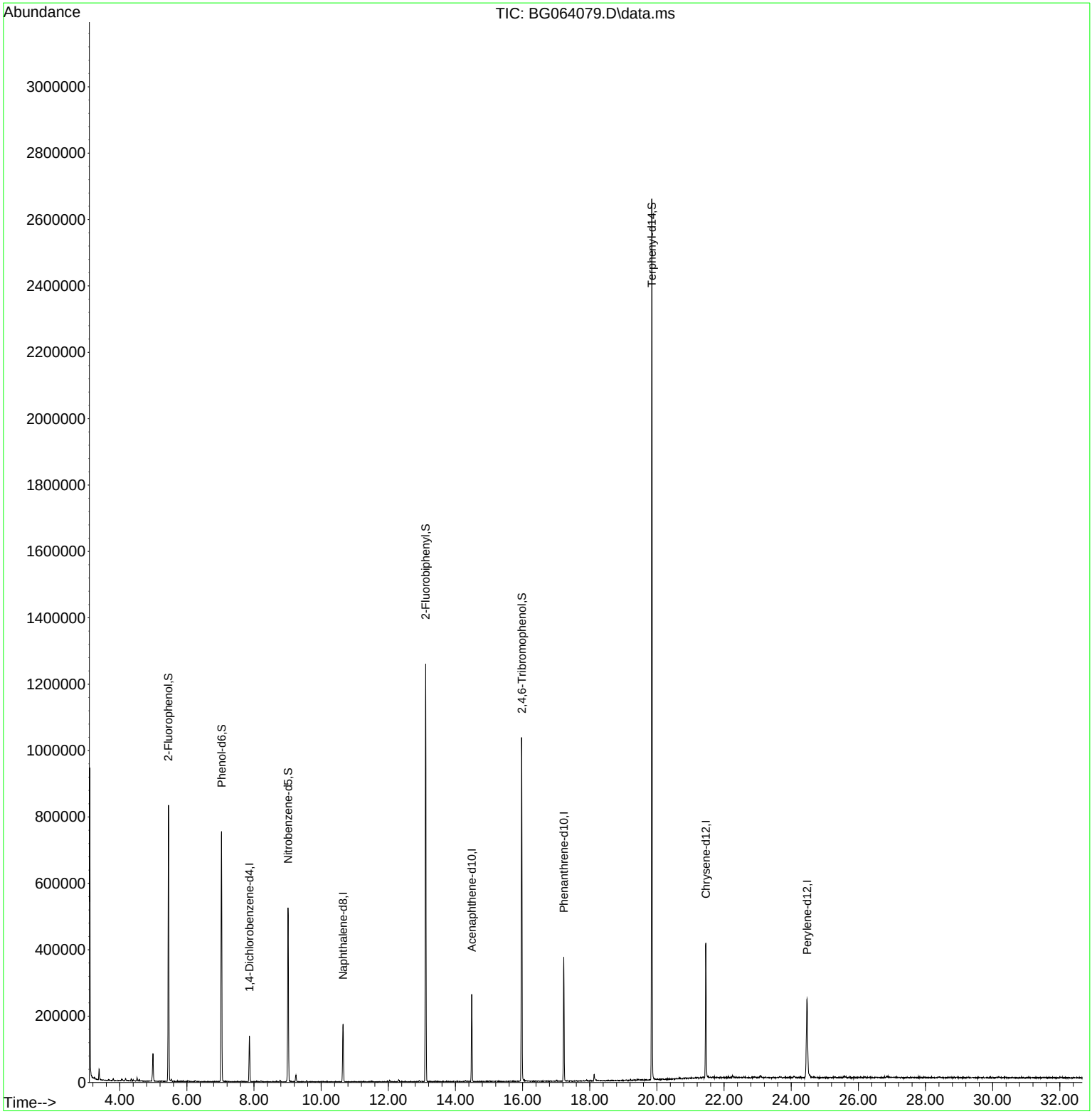
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	32475	20.000	ng	0.00
21) Naphthalene-d8	10.652	136	132840	20.000	ng	0.00
39) Acenaphthene-d10	14.488	164	88542	20.000	ng	0.00
64) Phenanthrene-d10	17.226	188	205793	20.000	ng	0.00
76) Chrysene-d12	21.457	240	234830	20.000	ng	0.00
86) Perylene-d12	24.471	264	245151	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	299574	144.040	ng	0.00
7) Phenol-d6	7.032	99	363258	128.390	ng	0.00
23) Nitrobenzene-d5	9.012	82	274607	114.238	ng	0.00
42) 2,4,6-Tribromophenol	15.975	330	170868	173.610	ng	0.00
45) 2-Fluorobiphenyl	13.114	172	599991	102.857	ng	0.00
79) Terphenyl-d14	19.847	244	1223564	105.355	ng	0.00
Target Compounds						Qvalue

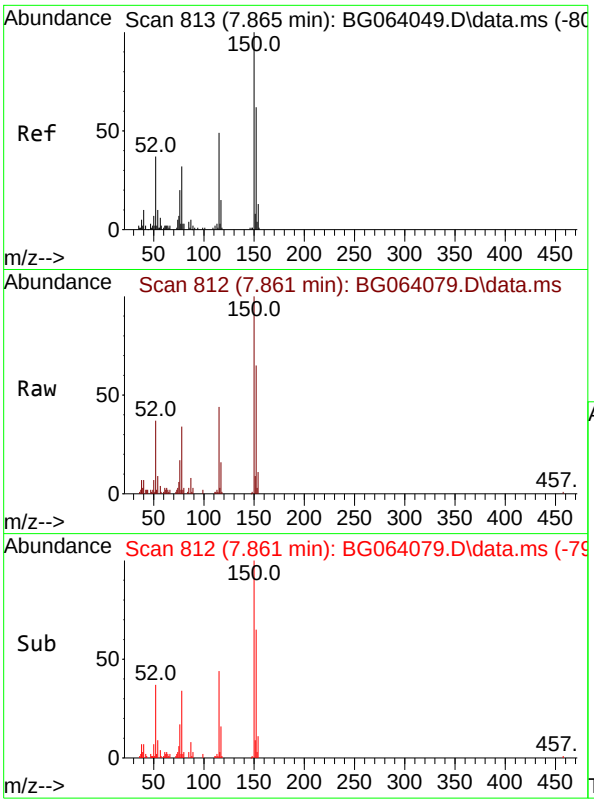
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064079.D
Acq On : 10 Mar 2025 13:43
Operator : RC/JU
Sample : Q1488-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 10 15:19:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



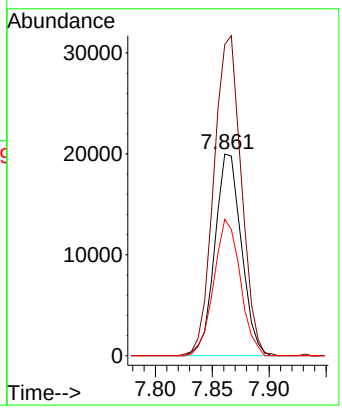


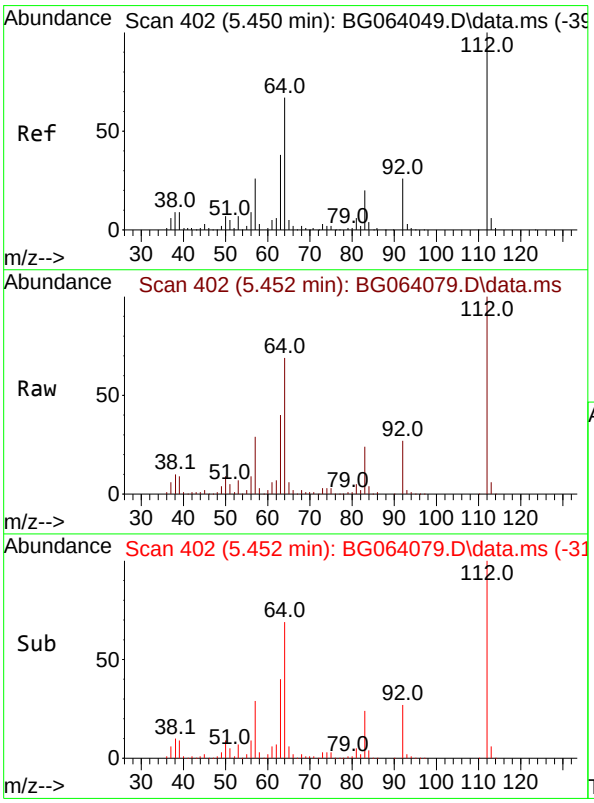
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion:152 Resp: 32475

Ion	Ratio	Lower	Upper
152	100		
150	154.4	129.2	193.8
115	67.6	63.0	94.6

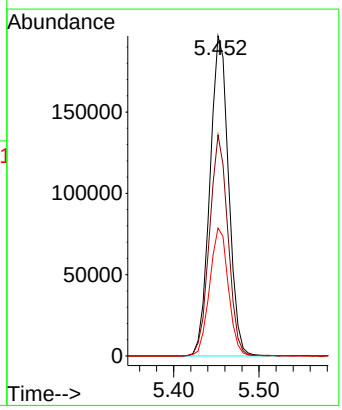


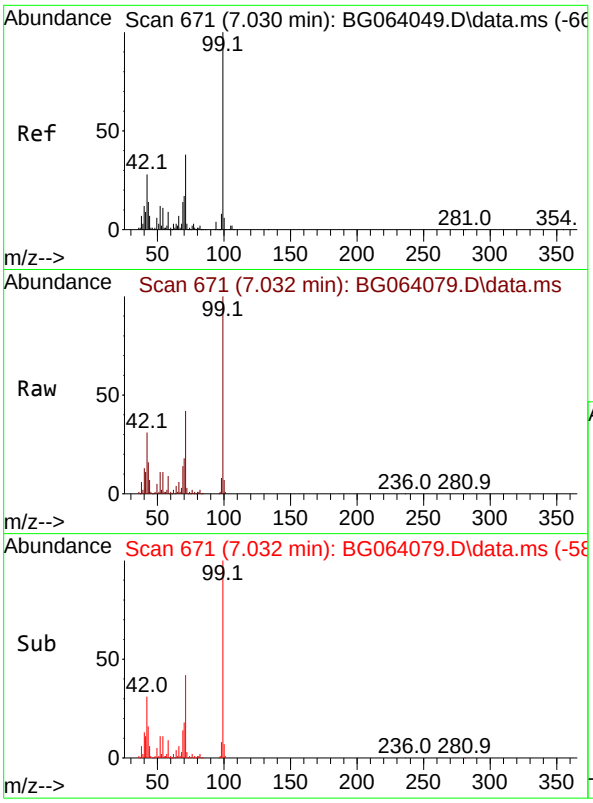


#5
2-Fluorophenol
Concen: 144.040 ng
RT: 5.452 min Scan# 402
Delta R.T. 0.002 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:112 Resp: 299574

Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.7	80.5
63	40.0	30.2	45.4



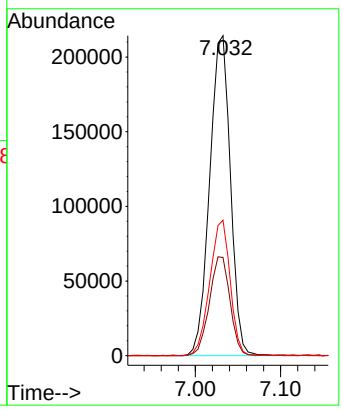


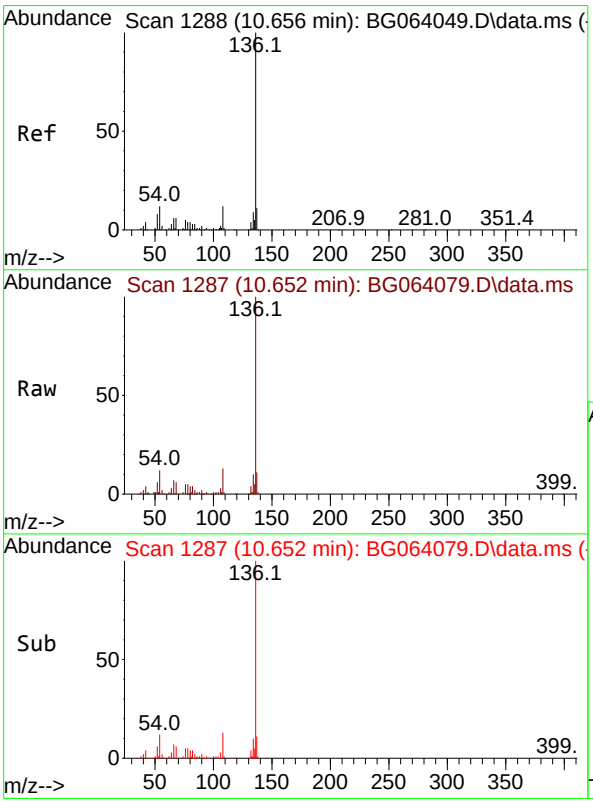
#7
Phenol-d6
Concen: 128.390 ng
RT: 7.032 min Scan# 6
Delta R.T. 0.002 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion: 99 Resp: 363258

Ion	Ratio	Lower	Upper
99	100		
42	30.7	22.7	34.1
71	42.3	30.6	46.0

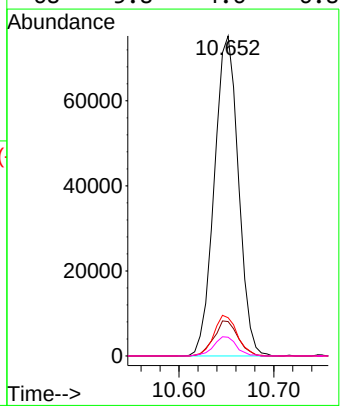


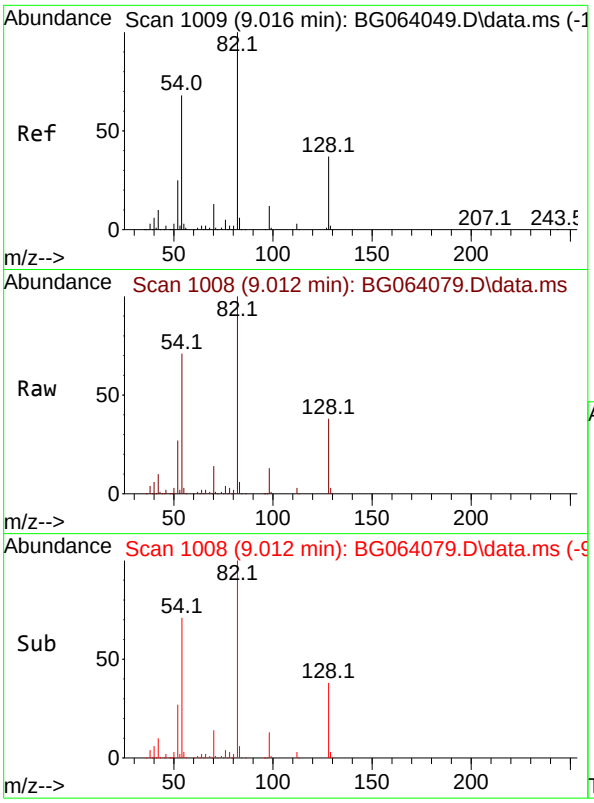


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1287
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:136 Resp: 132840

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	12.0	9.9	14.9
68	5.8	4.6	6.8



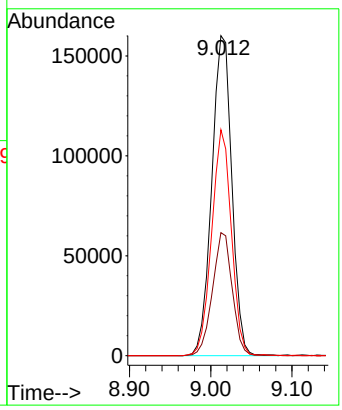


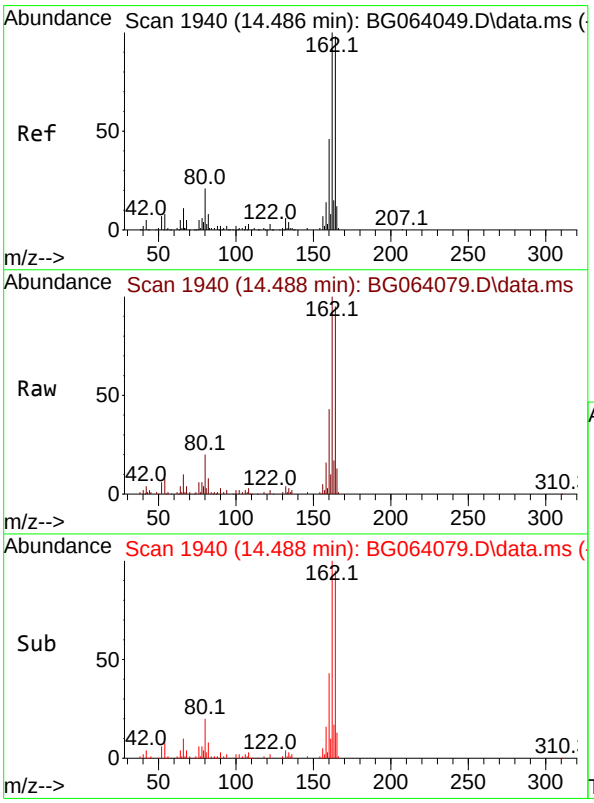
#23
Nitrobenzene-d5
Concen: 114.238 ng
RT: 9.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion: 82 Resp: 274607

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.0	45.0
54	70.6	54.7	82.1

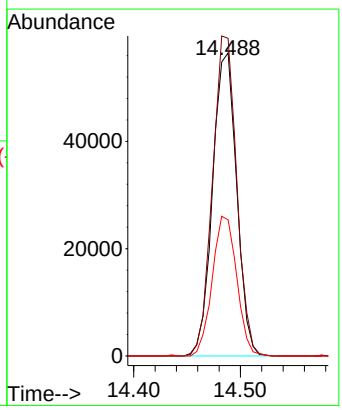


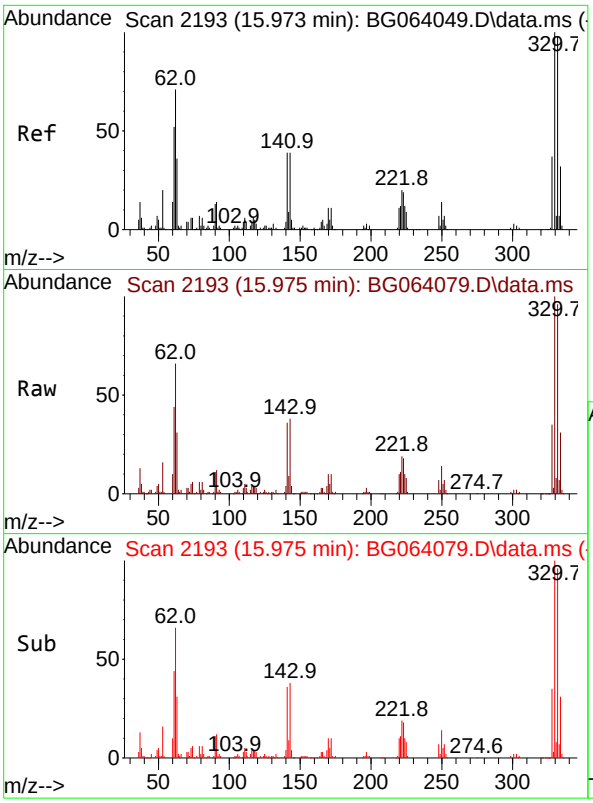


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.488 min Scan# 1940
Delta R.T. 0.002 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:164 Resp: 88542

Ion	Ratio	Lower	Upper
164	100		
162	104.8	81.4	122.0
160	44.9	37.0	55.6



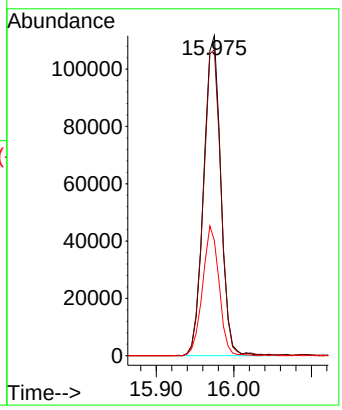


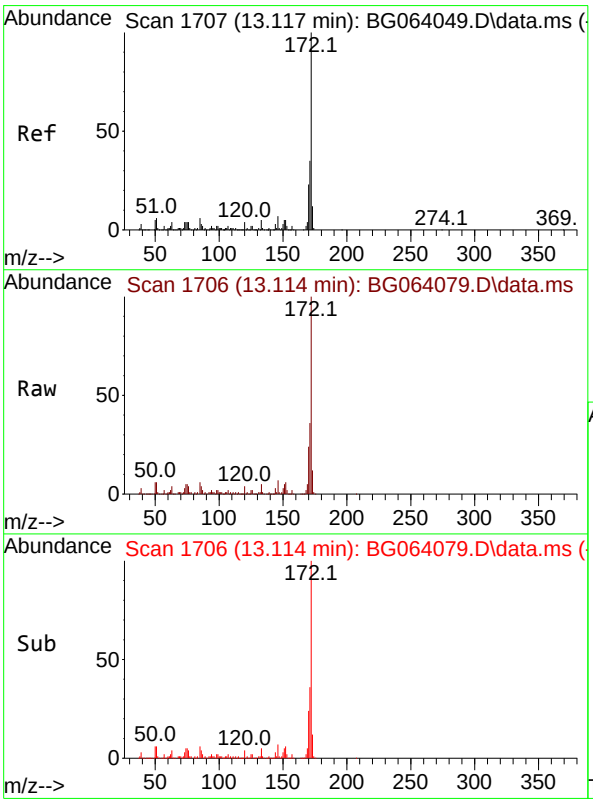
#42
2,4,6-Tribromophenol
Concen: 173.610 ng
RT: 15.975 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion:330 Resp: 170868

Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.7	115.1
141	39.1	29.7	44.5

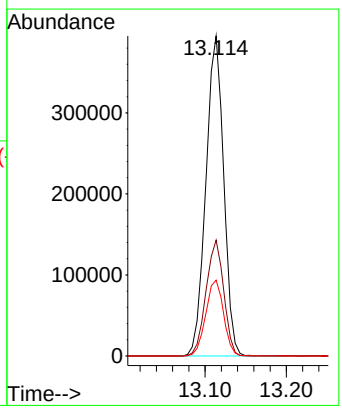


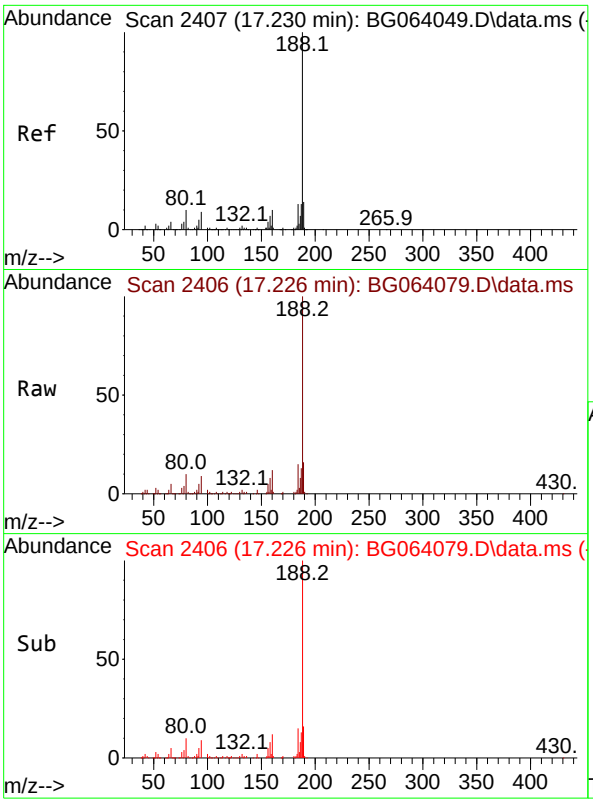


#45
2-Fluorobiphenyl
Concen: 102.857 ng
RT: 13.114 min Scan# 1706
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:172 Resp: 599991

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.0	42.0
170	23.7	18.7	28.1



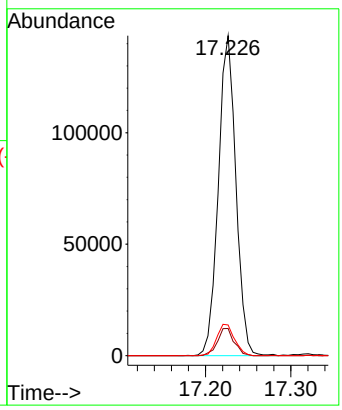


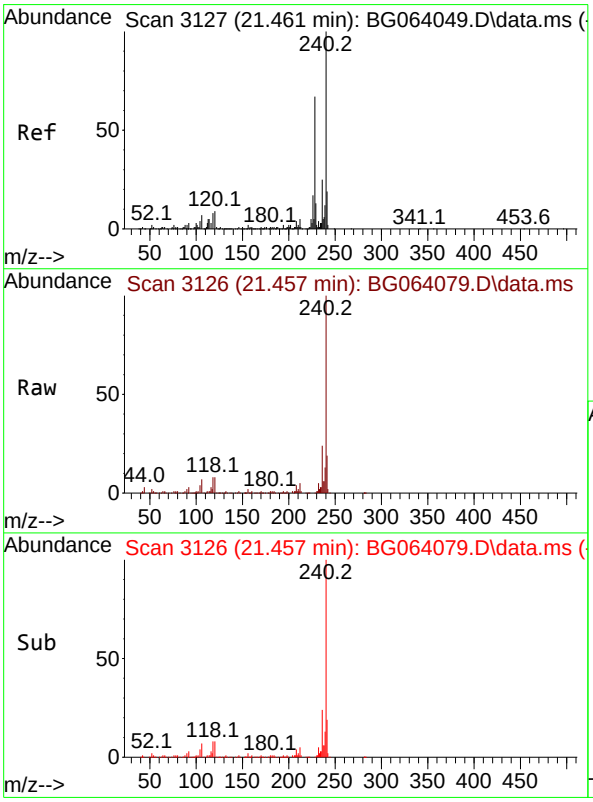
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion:188 Resp: 205793

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.9	10.3
80	9.6	8.1	12.1

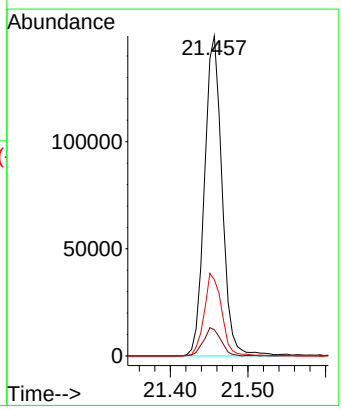


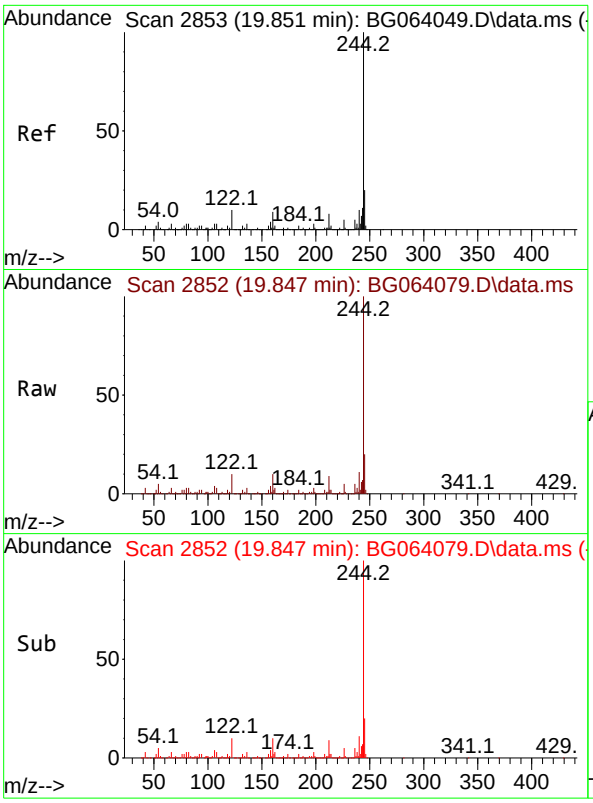


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:240 Resp: 234830

Ion	Ratio	Lower	Upper
240	100		
120	8.2	7.2	10.8
236	23.9	20.2	30.2



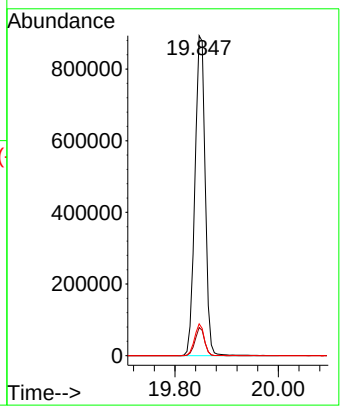


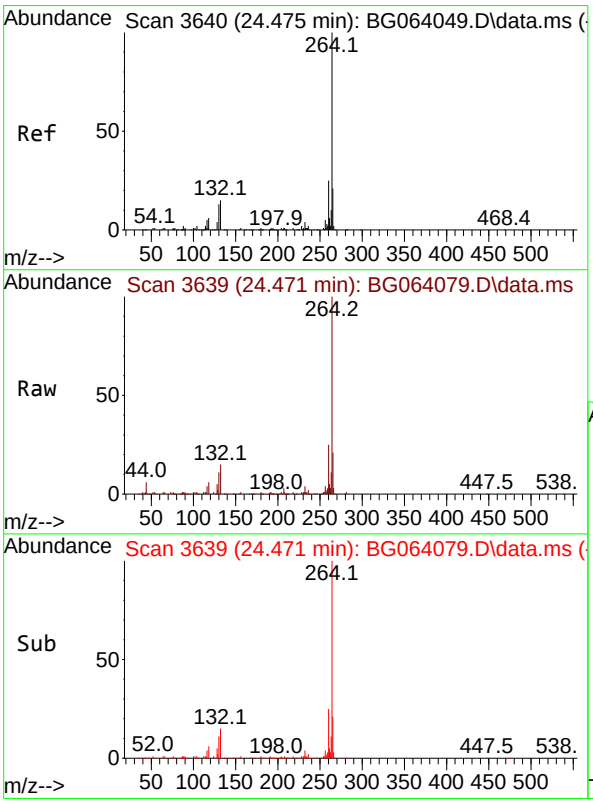
#79
Terphenyl-d14
Concen: 105.355 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Instrument :
BNA_G
ClientSampleId :
ENV-102-SB02

Tgt Ion:244 Resp: 1223564

Ion	Ratio	Lower	Upper
244	100		
212	8.8	6.2	9.4
122	10.0	8.0	12.0

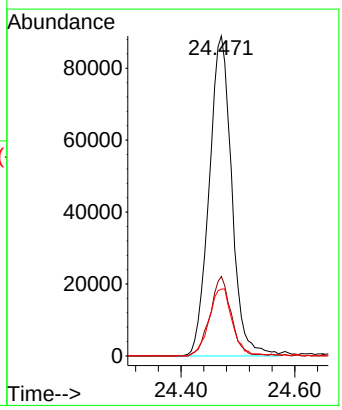




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.471 min Scan# 3639
Delta R.T. -0.004 min
Lab File: BG064079.D
Acq: 10 Mar 2025 13:43

Tgt Ion:264 Resp: 245151

Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.6	29.4
265	20.9	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064080.D
Acq On : 10 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 10 16:01:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

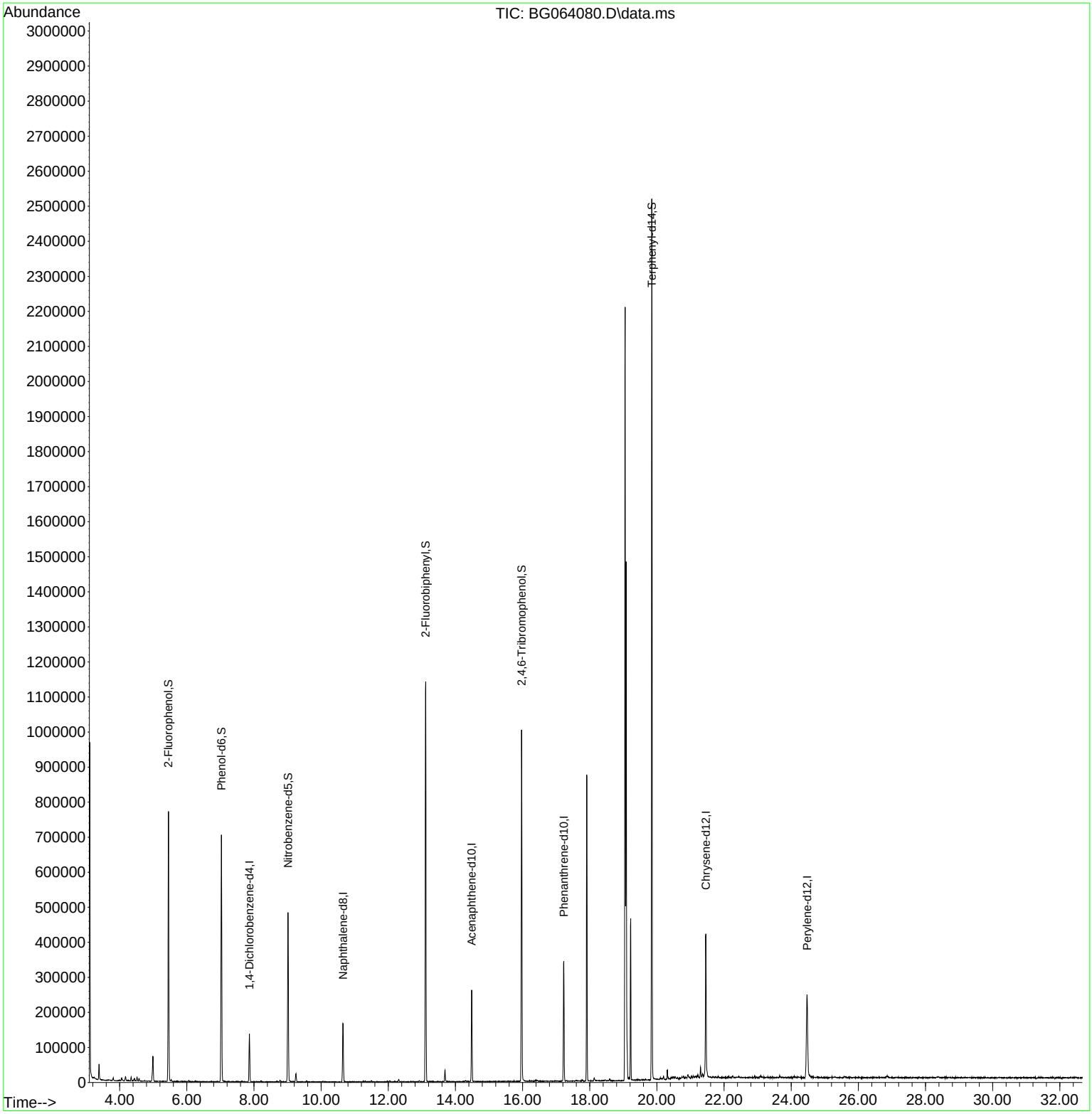
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.862	152	31568	20.000	ng	0.00
21) Naphthalene-d8	10.653	136	132922	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	86428	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	203951	20.000	ng	0.00
76) Chrysene-d12	21.458	240	230232	20.000	ng	0.00
86) Perylene-d12	24.472	264	240357	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.453	112	280962	138.972	ng	0.00
7) Phenol-d6	7.027	99	334052	121.459	ng	0.00
23) Nitrobenzene-d5	9.013	82	249192	103.601	ng	0.00
42) 2,4,6-Tribromophenol	15.970	330	156619	163.025	ng	0.00
45) 2-Fluorobiphenyl	13.114	172	548379	96.308	ng	0.00
79) Terphenyl-d14	19.848	244	1128017	99.067	ng	0.00
Target Compounds						Qvalue

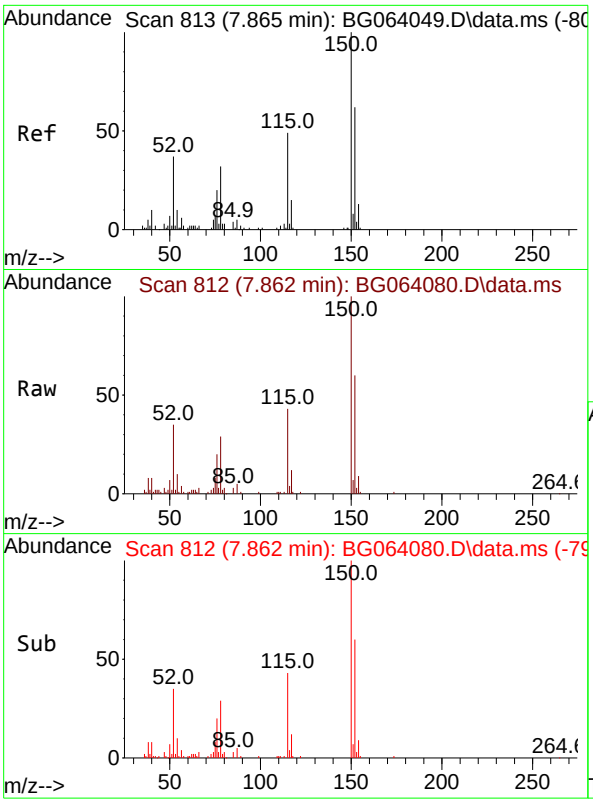
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064080.D
Acq On : 10 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 10 16:01:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



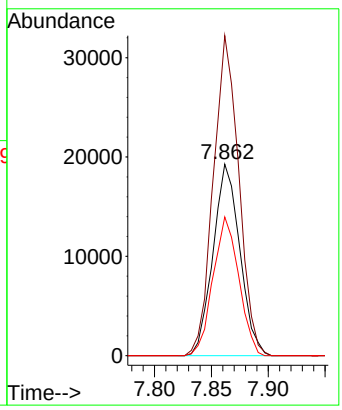


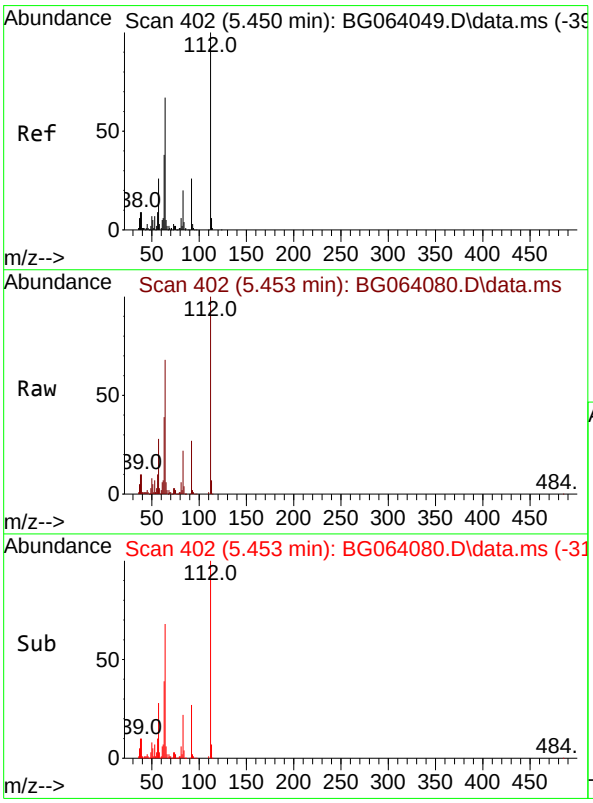
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.862 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Tgt Ion:152 Resp: 31568

Ion	Ratio	Lower	Upper
152	100		
150	167.1	129.2	193.8
115	72.4	63.0	94.6

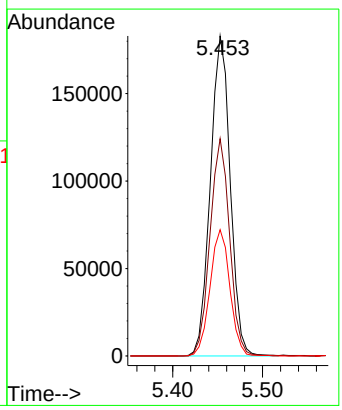


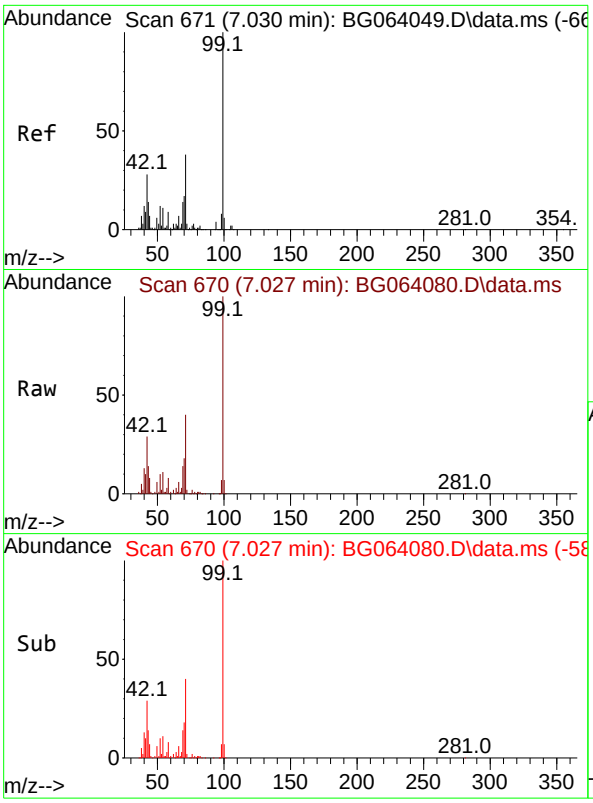


#5
2-Fluorophenol
Concen: 138.972 ng
RT: 5.453 min Scan# 402
Delta R.T. 0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:112 Resp: 280962

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.7	80.5
63	39.5	30.2	45.4



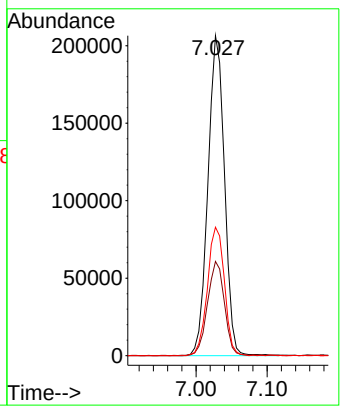


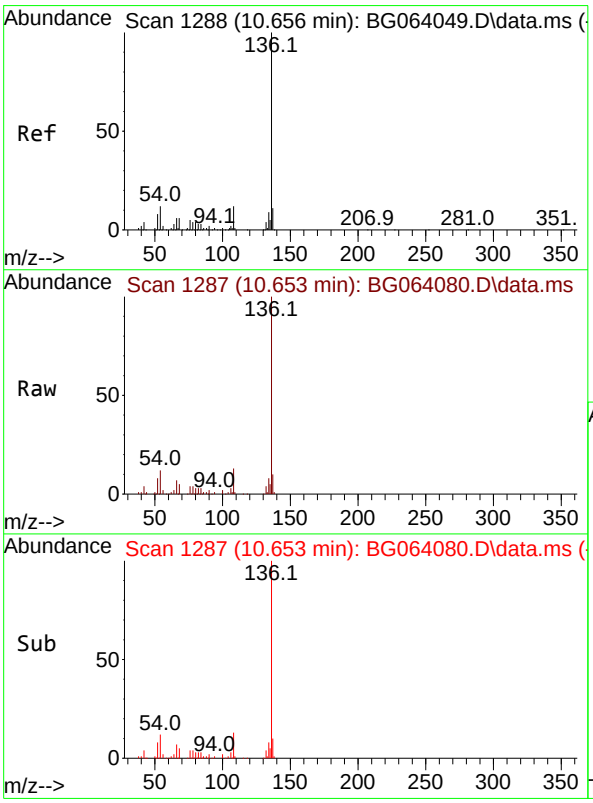
#7
Phenol-d6
Concen: 121.459 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Tgt Ion: 99 Resp: 334052

Ion	Ratio	Lower	Upper
99	100		
42	29.5	22.7	34.1
71	40.1	30.6	46.0

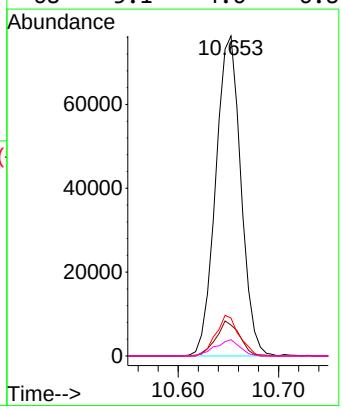


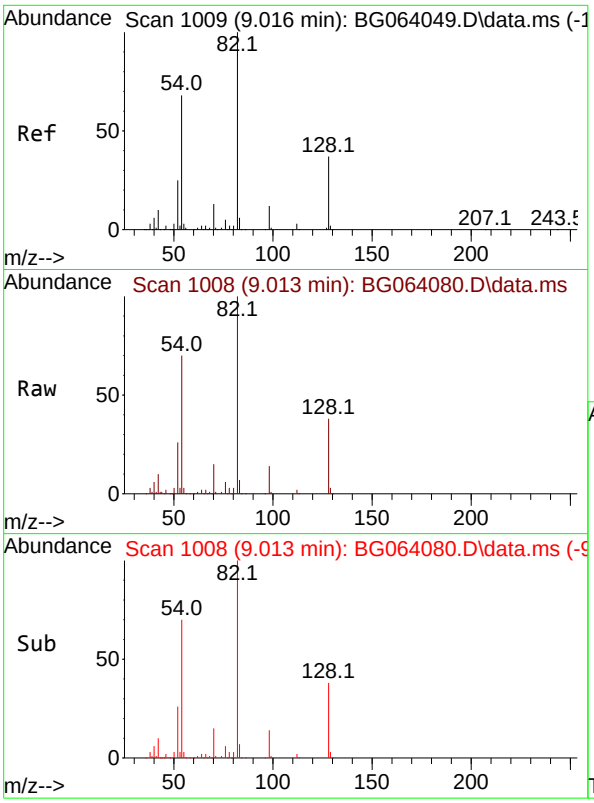


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.653 min Scan# 1287
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:136 Resp: 132922

Ion	Ratio	Lower	Upper
136	100		
137	9.7	8.5	12.7
54	11.8	9.9	14.9
68	5.1	4.6	6.8



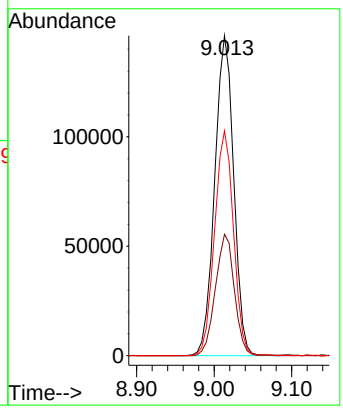


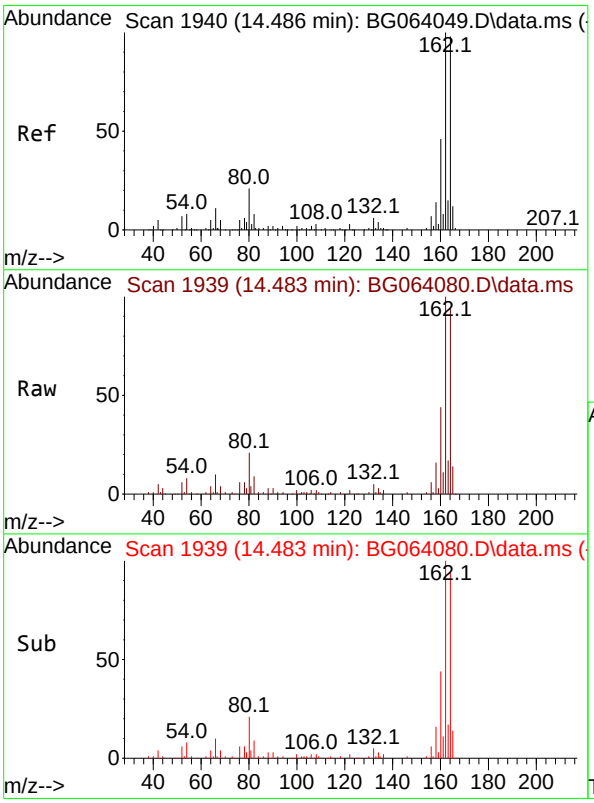
#23
Nitrobenzene-d5
Concen: 103.601 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Tgt Ion: 82 Resp: 249192

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.0	45.0
54	70.3	54.7	82.1

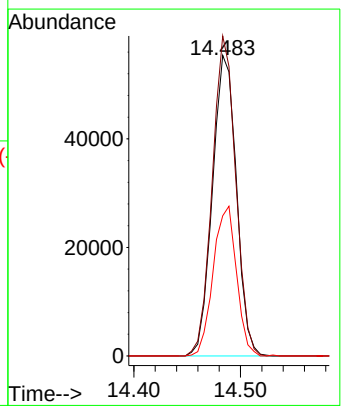




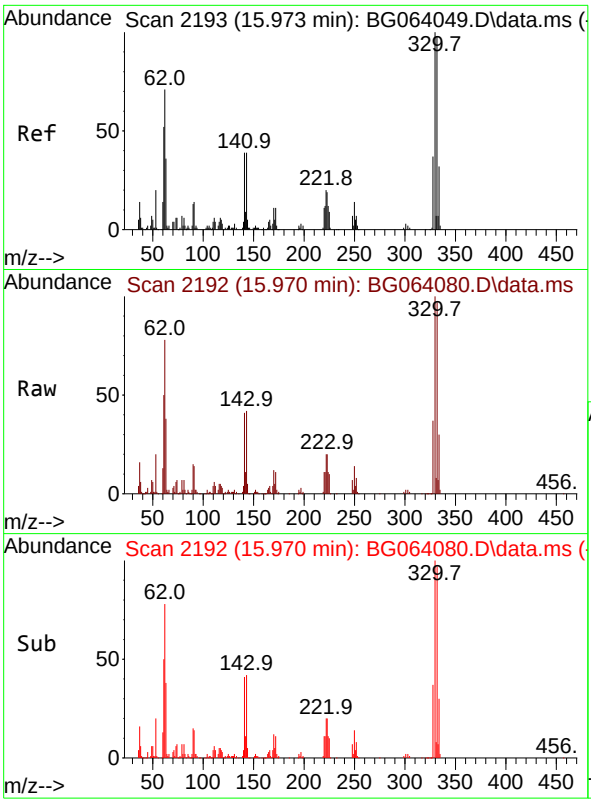
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:164 Resp: 86428

Ion	Ratio	Lower	Upper
164	100		
162	106.5	81.4	122.0
160	46.6	37.0	55.6



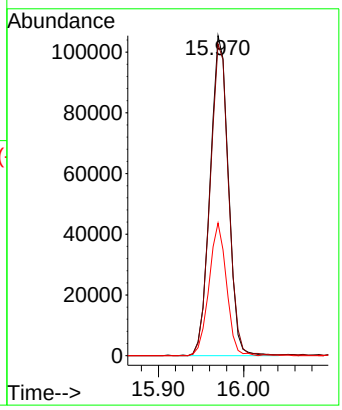
Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

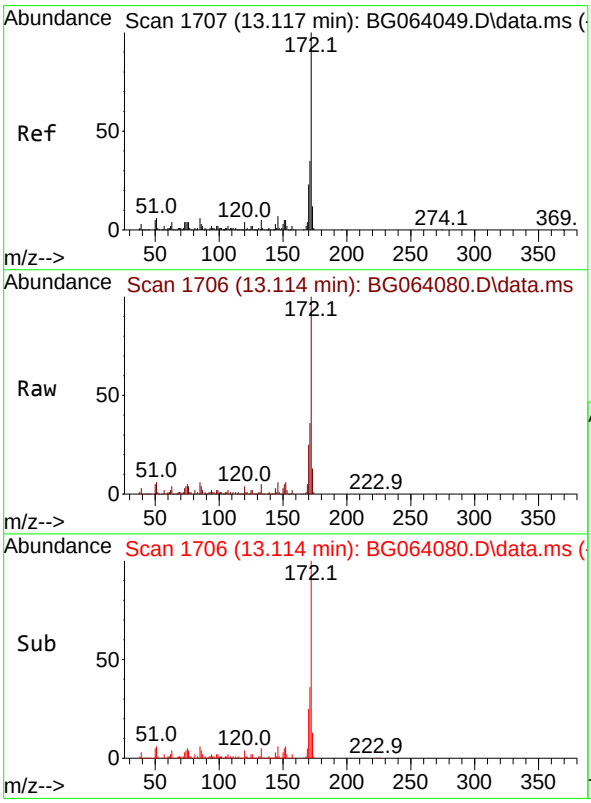


#42
2,4,6-Tribromophenol
Concen: 163.025 ng
RT: 15.970 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:330 Resp: 156619

Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.7	115.1
141	39.6	29.7	44.5

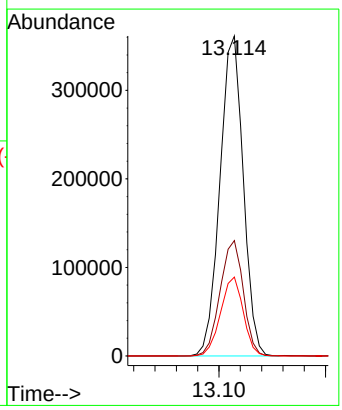


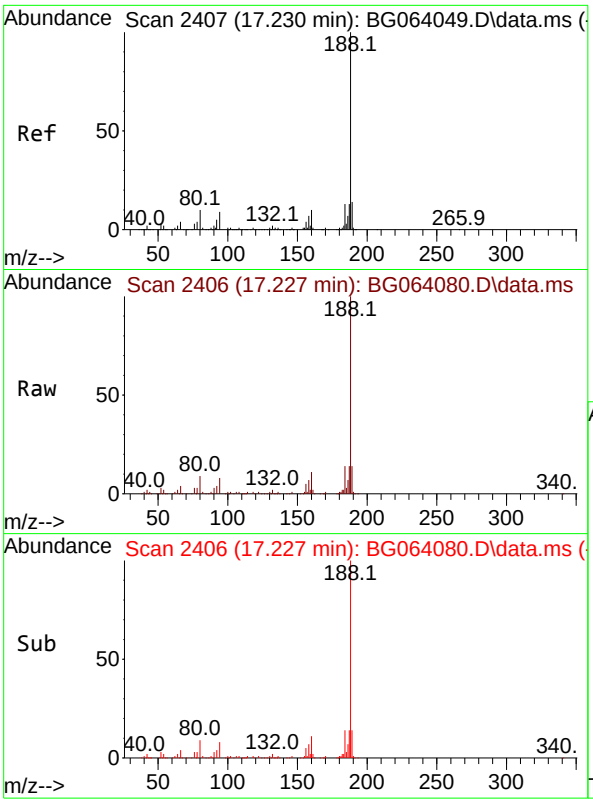


#45
2-Fluorobiphenyl
Concen: 96.308 ng
RT: 13.114 min Scan# 1706
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:172 Resp: 548379

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.0	42.0
170	24.7	18.7	28.1



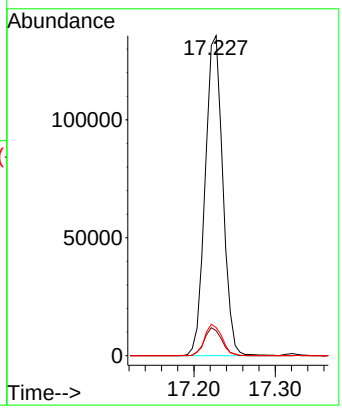


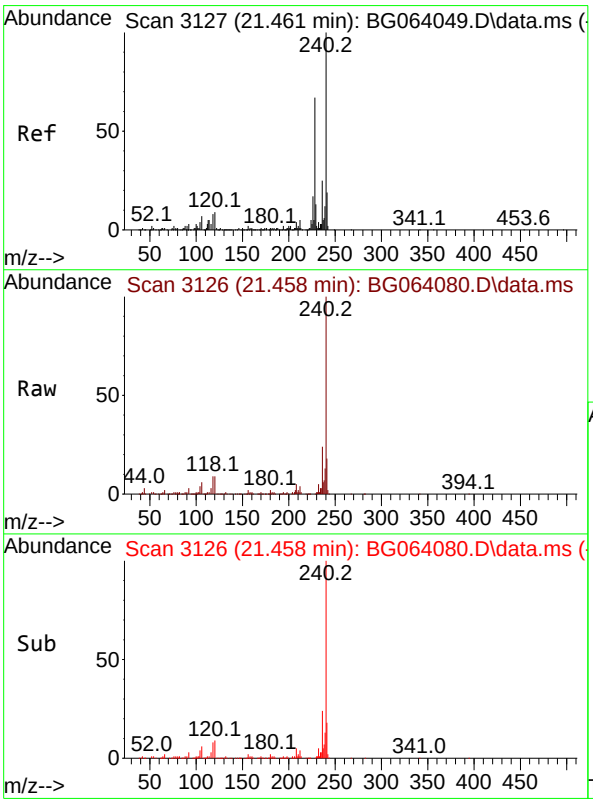
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Tgt Ion:188 Resp: 203951

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.9	10.3
80	8.8	8.1	12.1

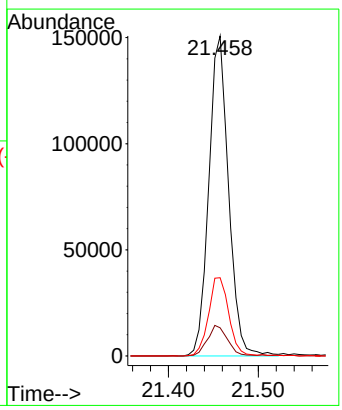


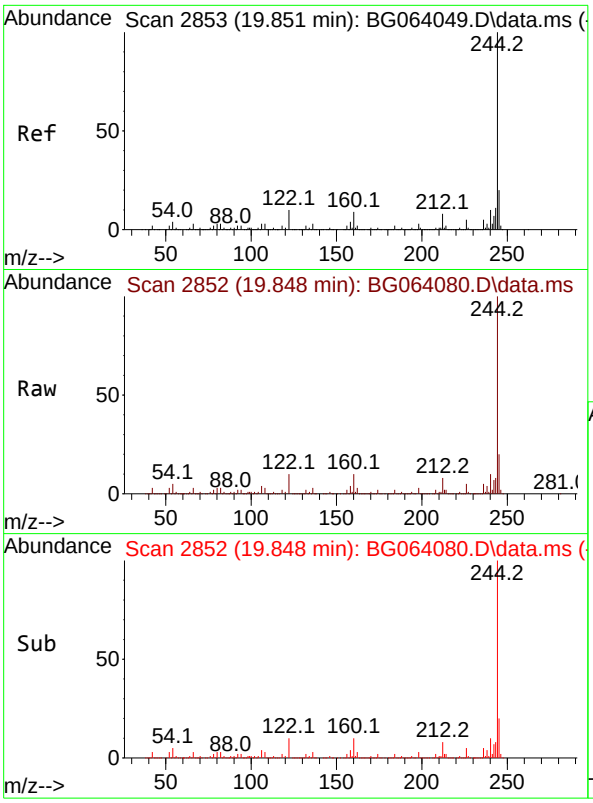


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.458 min Scan# 3126
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:240 Resp: 230232

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.2	10.8
236	24.4	20.2	30.2



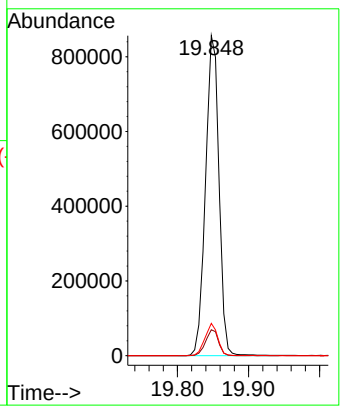


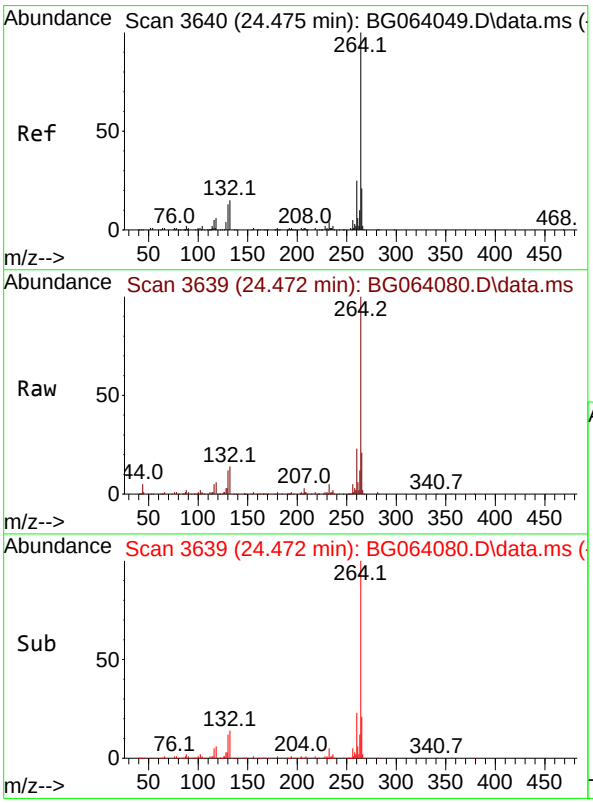
#79
Terphenyl-d14
Concen: 99.067 ng
RT: 19.848 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB01

Tgt Ion:244 Resp: 1128017

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	10.1	8.0	12.0

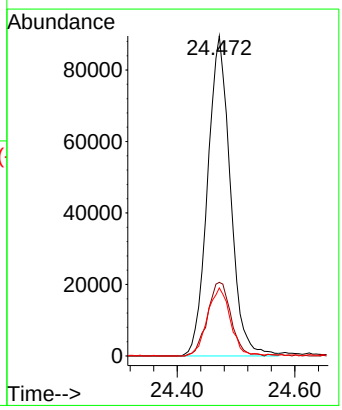




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.472 min Scan# 3639
Delta R.T. -0.003 min
Lab File: BG064080.D
Acq: 10 Mar 2025 14:23

Tgt Ion:264 Resp: 240357

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.6	29.4
265	21.2	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064081.D
Acq On : 10 Mar 2025 15:04
Operator : RC/JU
Sample : Q1488-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 10 16:46:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

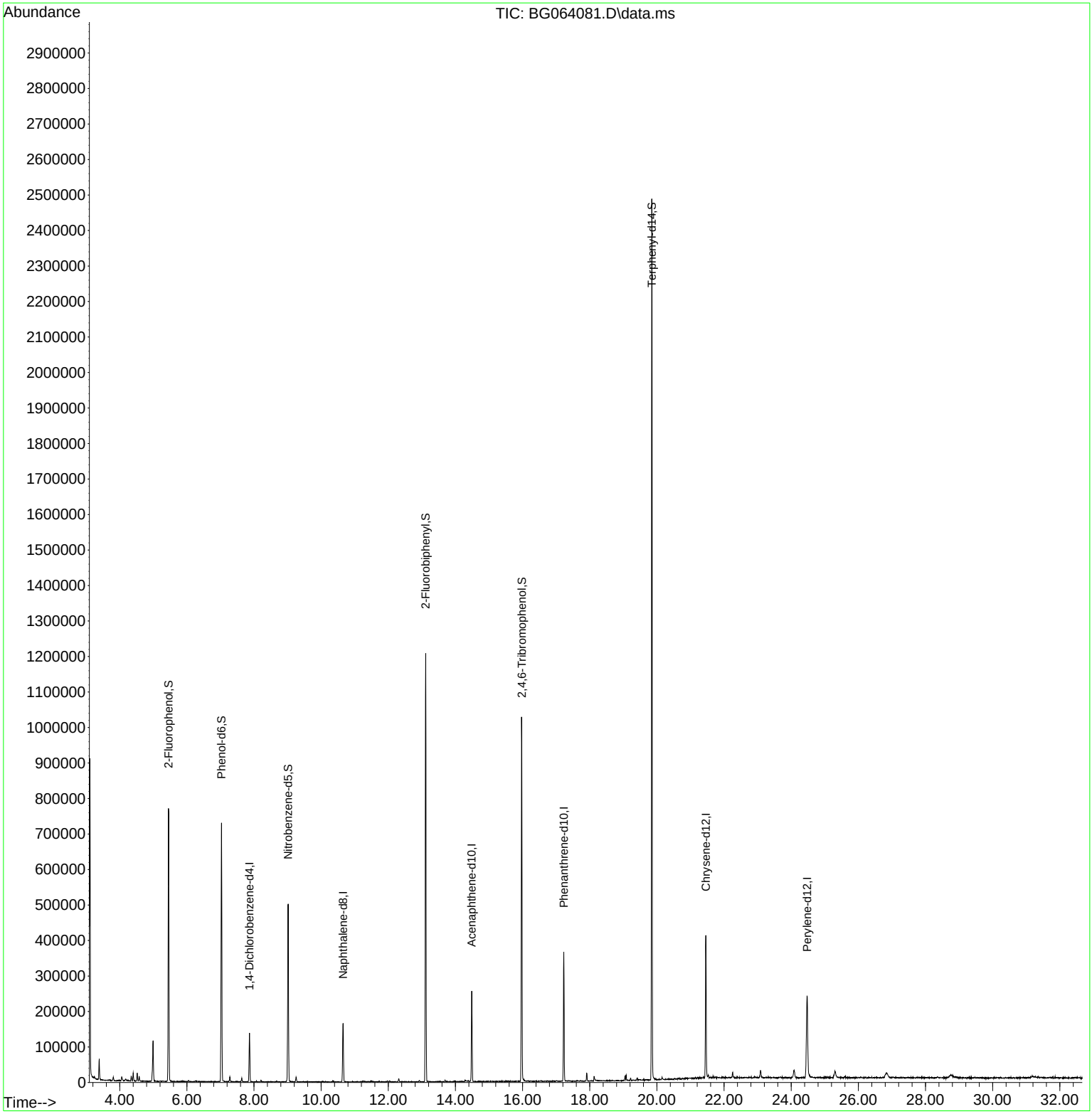
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	32215	20.000	ng	0.00
21) Naphthalene-d8	10.651	136	132011	20.000	ng	0.00
39) Acenaphthene-d10	14.482	164	87599	20.000	ng	0.00
64) Phenanthrene-d10	17.226	188	206278	20.000	ng	0.00
76) Chrysene-d12	21.456	240	226436	20.000	ng	0.00
86) Perylene-d12	24.471	264	234414	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	291410	141.245	ng	0.00
7) Phenol-d6	7.032	99	347316	123.746	ng	0.00
23) Nitrobenzene-d5	9.018	82	260514	109.055	ng	0.00
42) 2,4,6-Tribromophenol	15.975	330	165587	170.055	ng	0.00
45) 2-Fluorobiphenyl	13.113	172	574775	99.595	ng	0.00
79) Terphenyl-d14	19.852	244	1190844	106.338	ng	0.00
Target Compounds						Qvalue

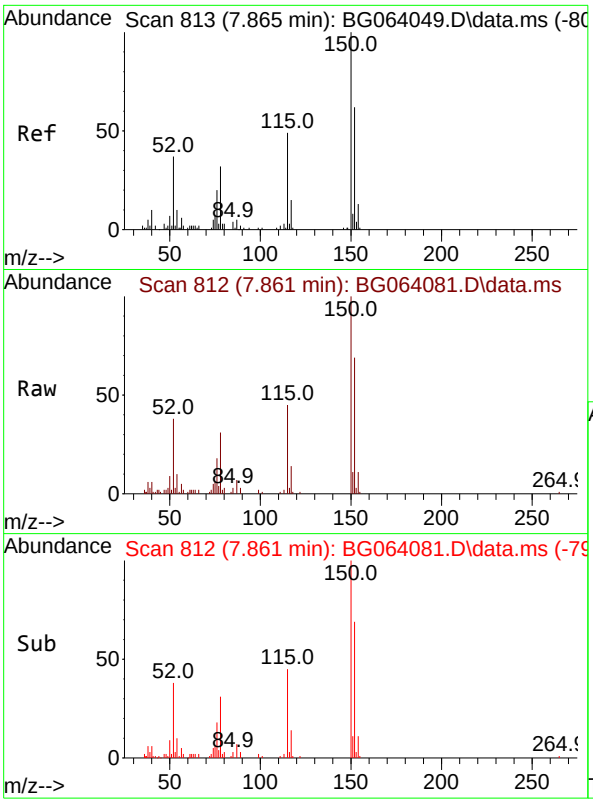
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064081.D
Acq On : 10 Mar 2025 15:04
Operator : RC/JU
Sample : Q1488-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 10 16:46:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



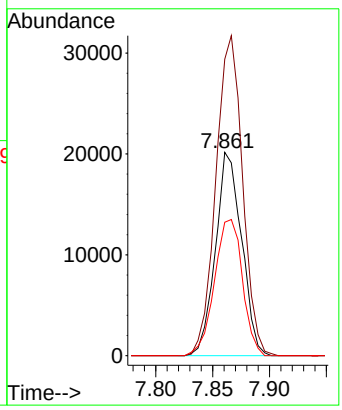


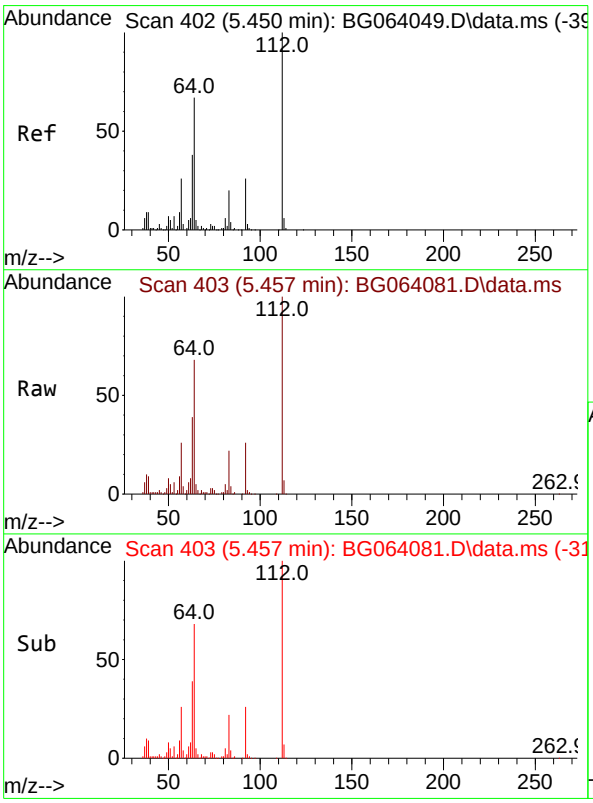
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion:152 Resp: 32215

Ion	Ratio	Lower	Upper
152	100		
150	145.8	129.2	193.8
115	65.6	63.0	94.6

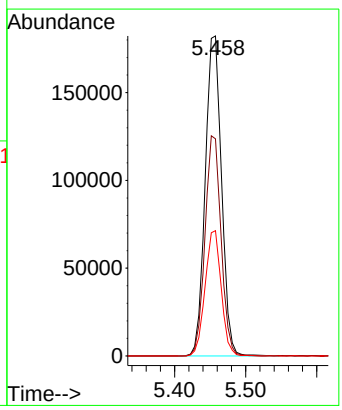


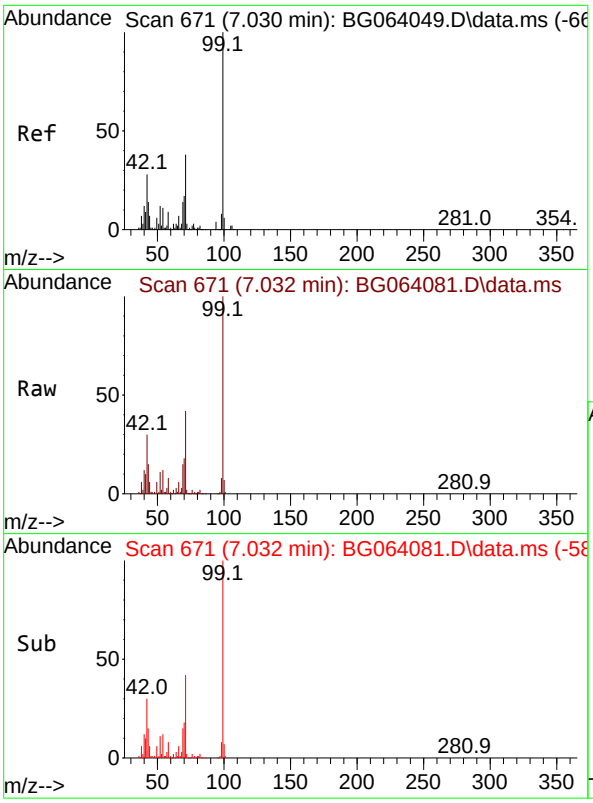


#5
2-Fluorophenol
Concen: 141.245 ng
RT: 5.457 min Scan# 403
Delta R.T. 0.008 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:112 Resp: 291410

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.7	80.5
63	39.1	30.2	45.4



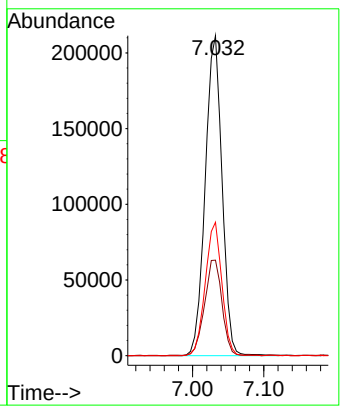


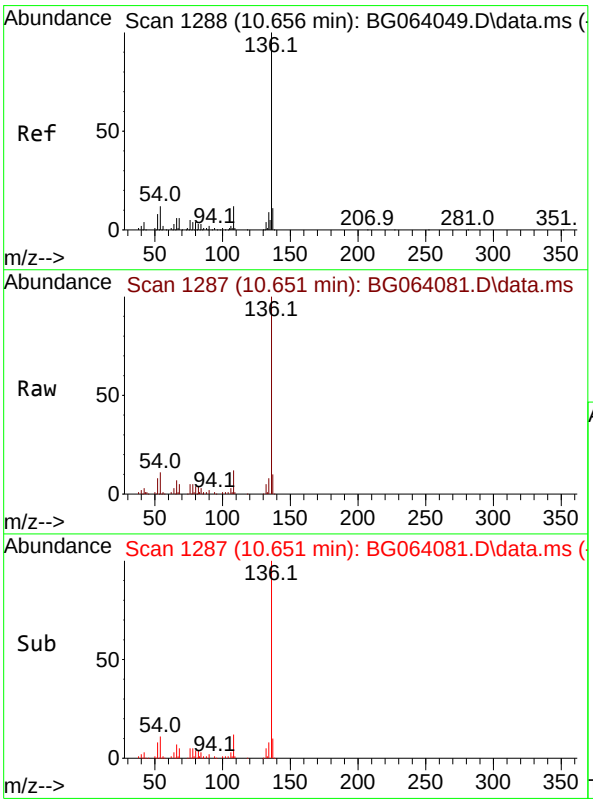
#7
Phenol-d6
Concen: 123.746 ng
RT: 7.032 min Scan# 6
Delta R.T. 0.002 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion: 99 Resp: 347316

Ion	Ratio	Lower	Upper
99	100		
42	29.9	22.7	34.1
71	41.7	30.6	46.0

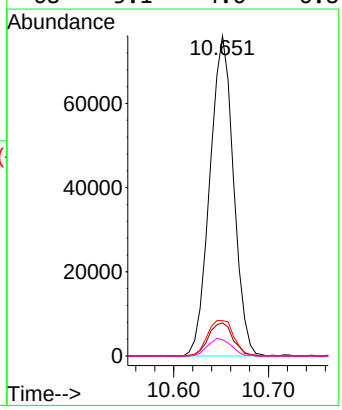


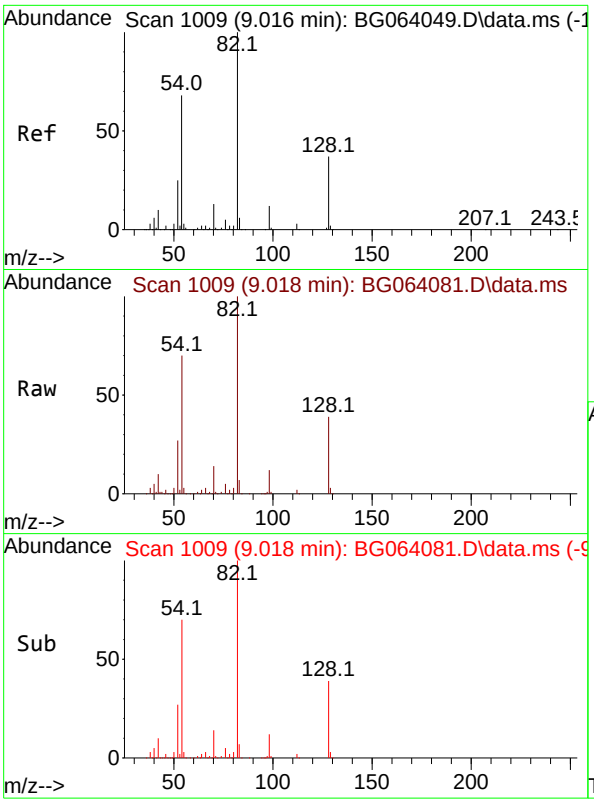


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.651 min Scan# 1287
Delta R.T. -0.005 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:136 Resp: 132011

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.5	12.7
54	11.1	9.9	14.9
68	5.1	4.6	6.8



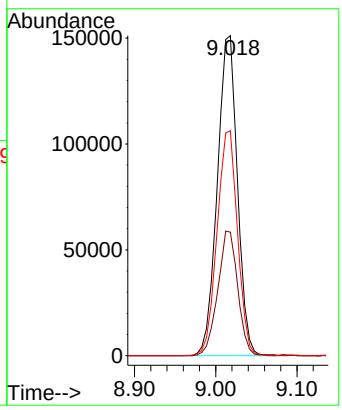


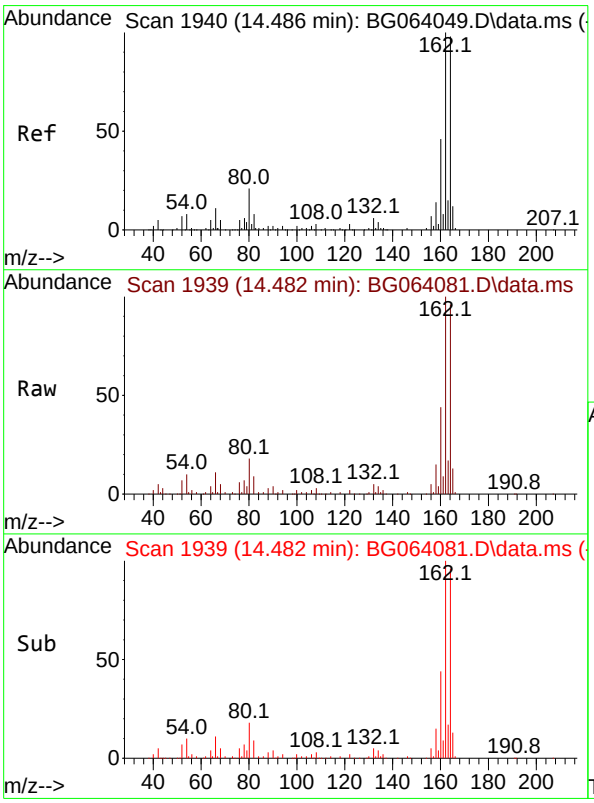
#23
Nitrobenzene-d5
Concen: 109.055 ng
RT: 9.018 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion: 82 Resp: 260514

Ion	Ratio	Lower	Upper
82	100		
128	38.6	30.0	45.0
54	70.3	54.7	82.1

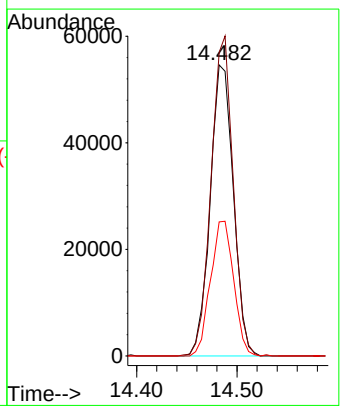


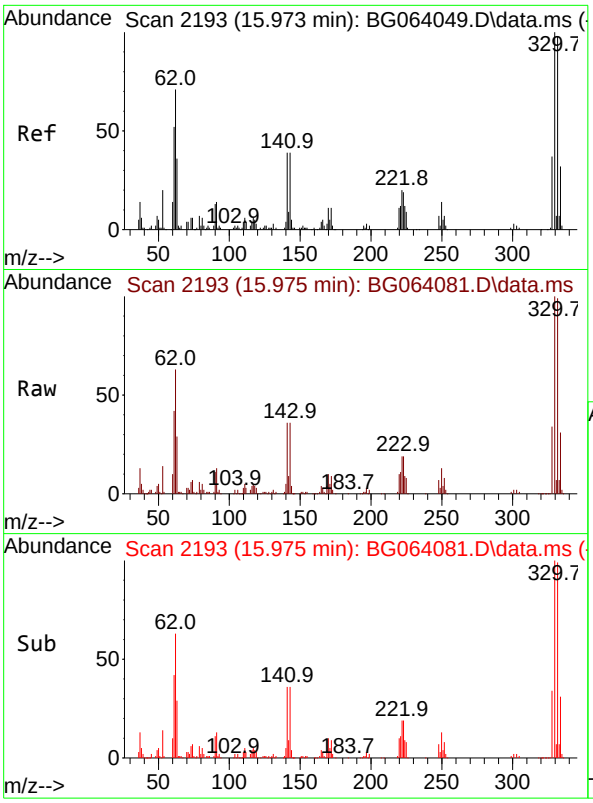


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.482 min Scan# 1939
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:164 Resp: 87599

Ion	Ratio	Lower	Upper
164	100		
162	104.3	81.4	122.0
160	46.1	37.0	55.6



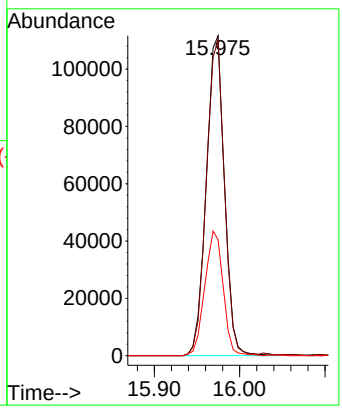


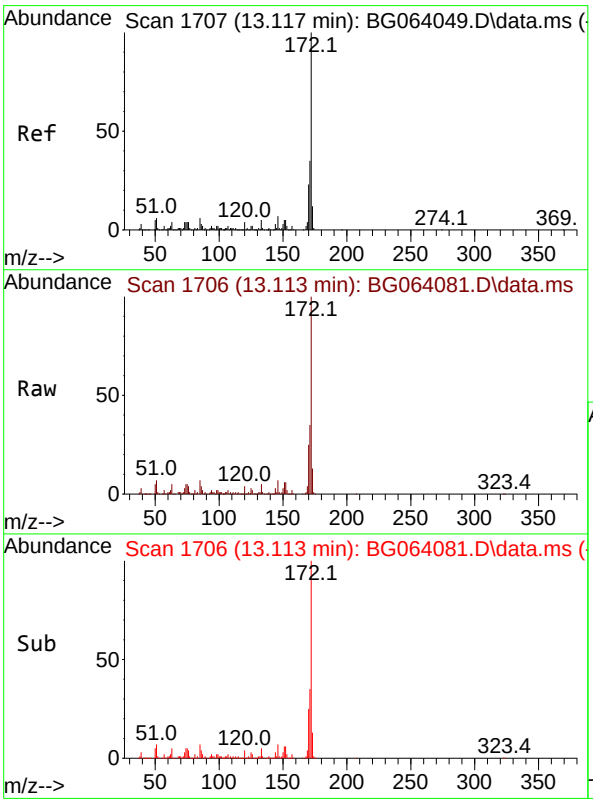
#42
2,4,6-Tribromophenol
Concen: 170.055 ng
RT: 15.975 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion:330 Resp: 165587

Ion	Ratio	Lower	Upper
330	100		
332	98.1	76.7	115.1
141	39.2	29.7	44.5

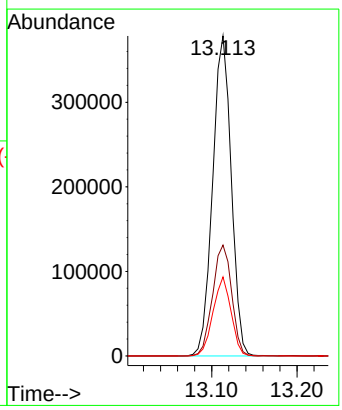


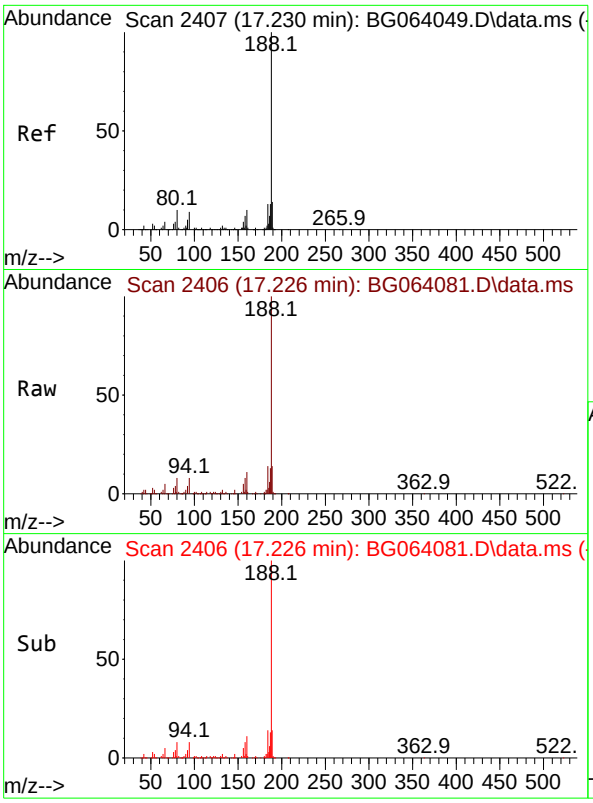


#45
2-Fluorobiphenyl
Concen: 99.595 ng
RT: 13.113 min Scan# 1706
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:172 Resp: 574775

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.0	42.0
170	24.7	18.7	28.1



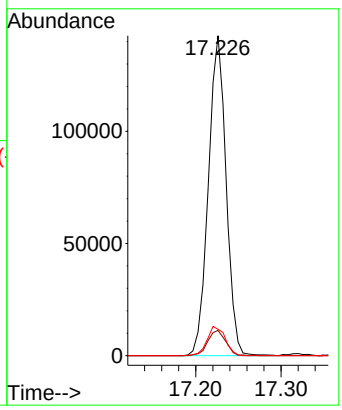


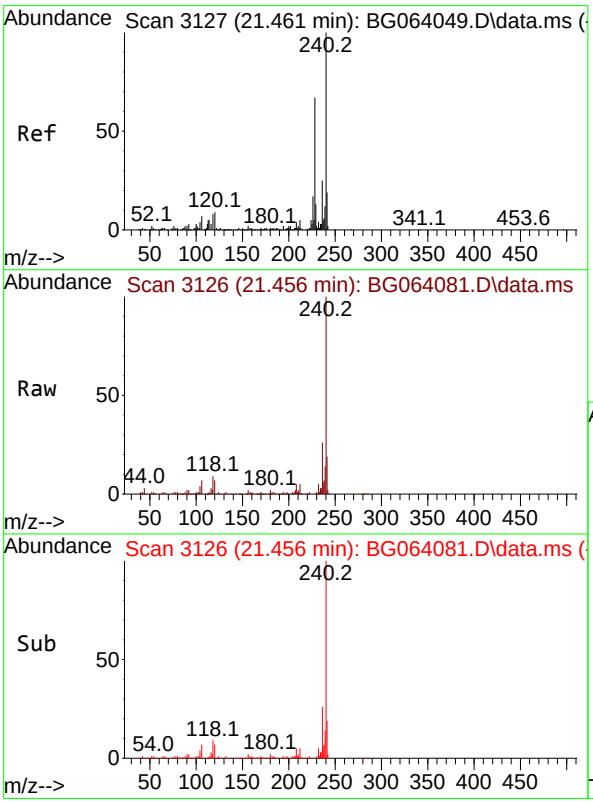
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion:188 Resp: 206278

Ion	Ratio	Lower	Upper
188	100		
94	7.9	6.9	10.3
80	8.2	8.1	12.1

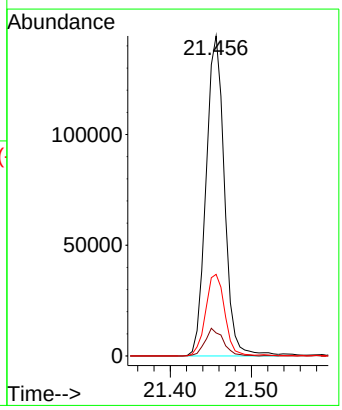


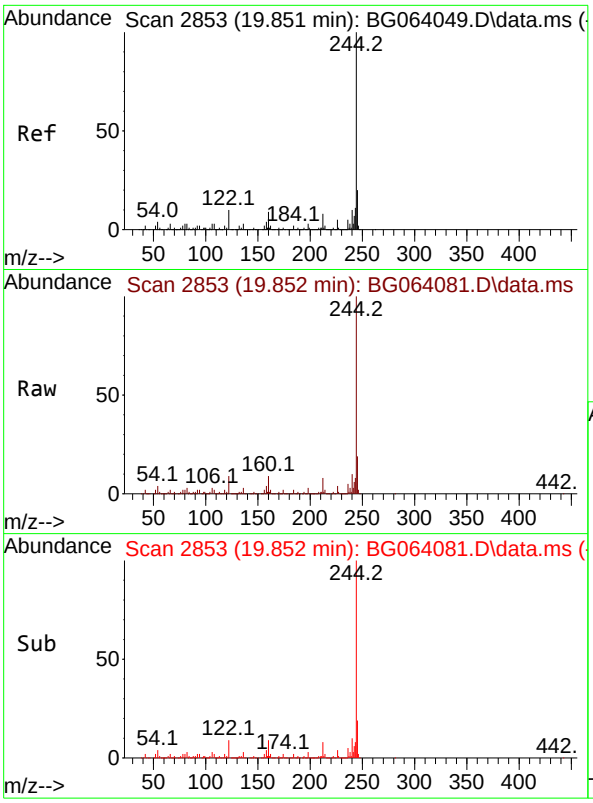


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3126
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:240 Resp: 226436

Ion	Ratio	Lower	Upper
240	100		
120	7.2	7.2	10.8
236	25.5	20.2	30.2



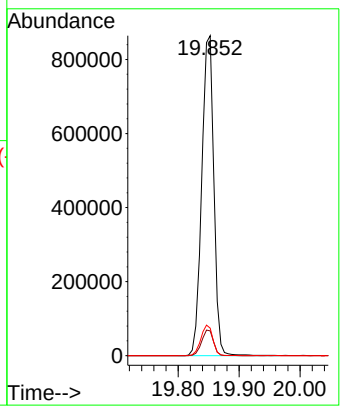


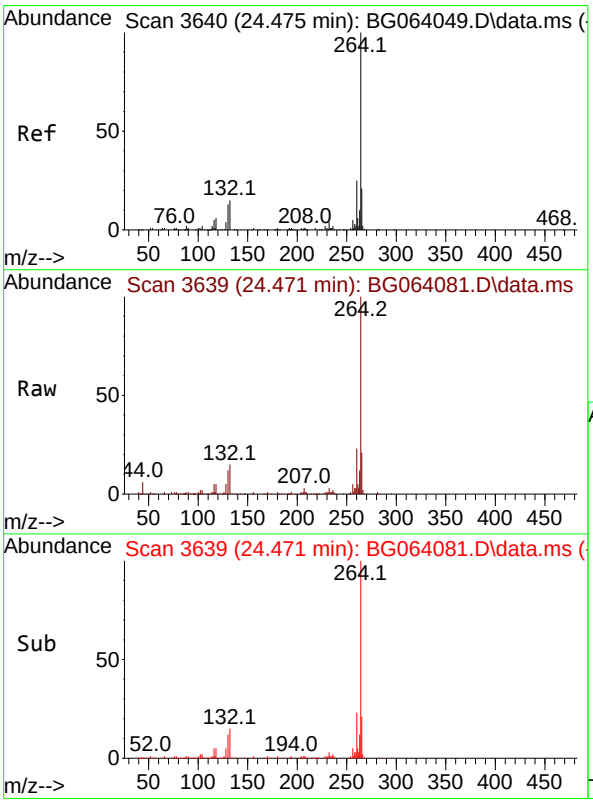
#79
Terphenyl-d14
Concen: 106.338 ng
RT: 19.852 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Instrument :
BNA_G
ClientSampleId :
ENV-104-SB02

Tgt Ion:244 Resp: 1190844

Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.4
122	8.6	8.0	12.0

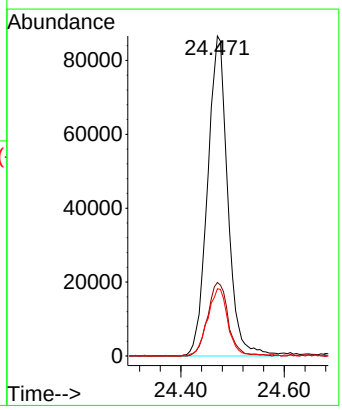




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.471 min Scan# 3639
Delta R.T. -0.004 min
Lab File: BG064081.D
Acq: 10 Mar 2025 15:04

Tgt Ion:264 Resp: 234414

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.6	29.4
265	21.0	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064074.D
Acq On : 10 Mar 2025 10:03
Operator : RC/JU
Sample : PB167035BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Quant Time: Mar 10 11:45:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

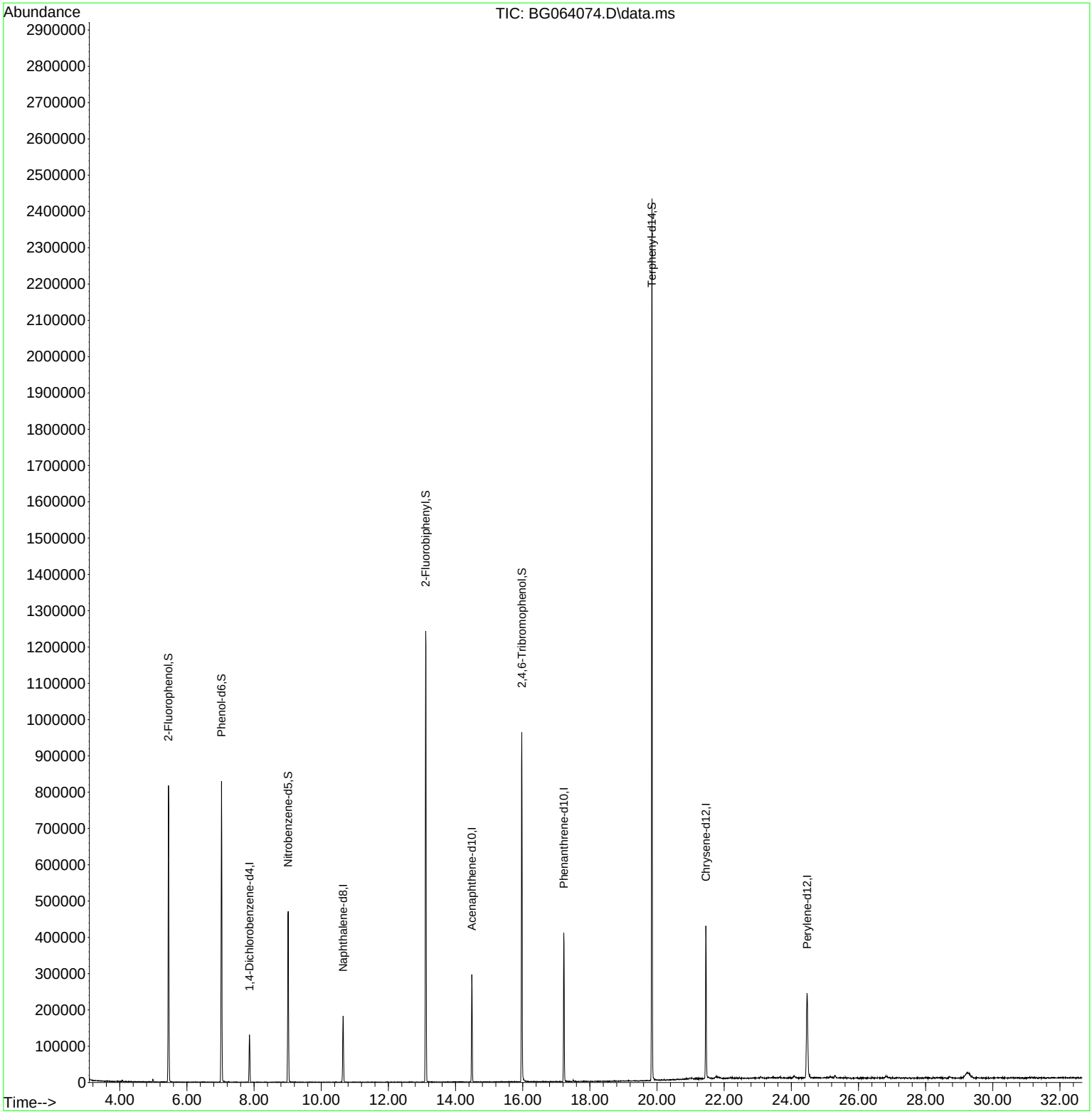
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.858	152	32741	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	140985	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	98023	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	230921	20.000	ng	0.00
76) Chrysene-d12	21.454	240	233034	20.000	ng	0.00
86) Perylene-d12	24.468	264	246222	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.449	112	297876	142.060	ng	0.00
7) Phenol-d6	7.030	99	386605	135.531	ng	0.00
23) Nitrobenzene-d5	9.016	82	247498	97.012	ng	0.00
42) 2,4,6-Tribromophenol	15.972	330	163199	149.780	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	611388	94.673	ng	0.00
79) Terphenyl-d14	19.850	244	1126387	97.735	ng	0.00
Target Compounds						Qvalue

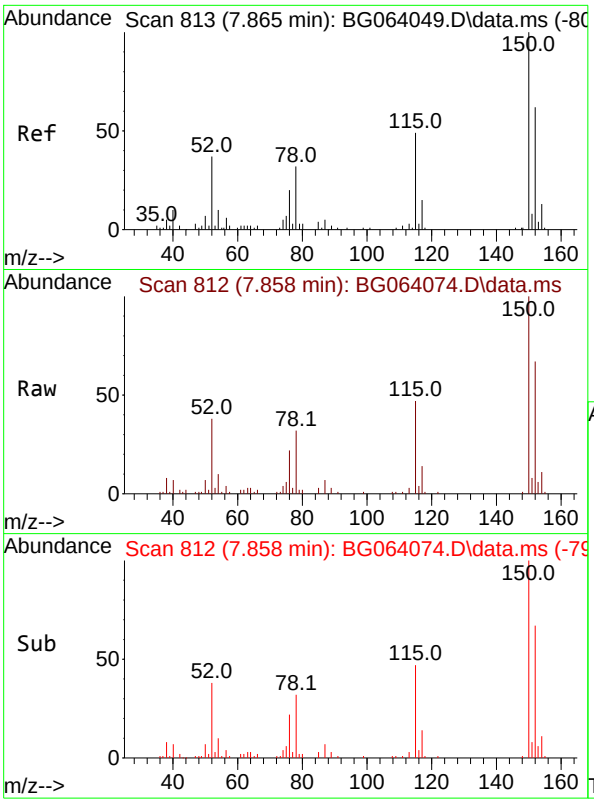
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064074.D
Acq On : 10 Mar 2025 10:03
Operator : RC/JU
Sample : PB167035BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Quant Time: Mar 10 11:45:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



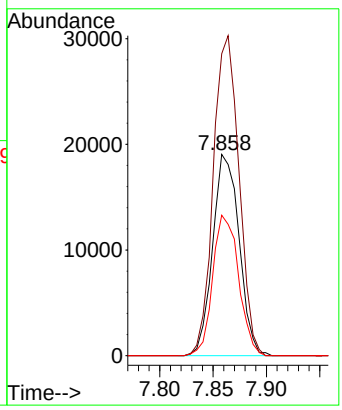


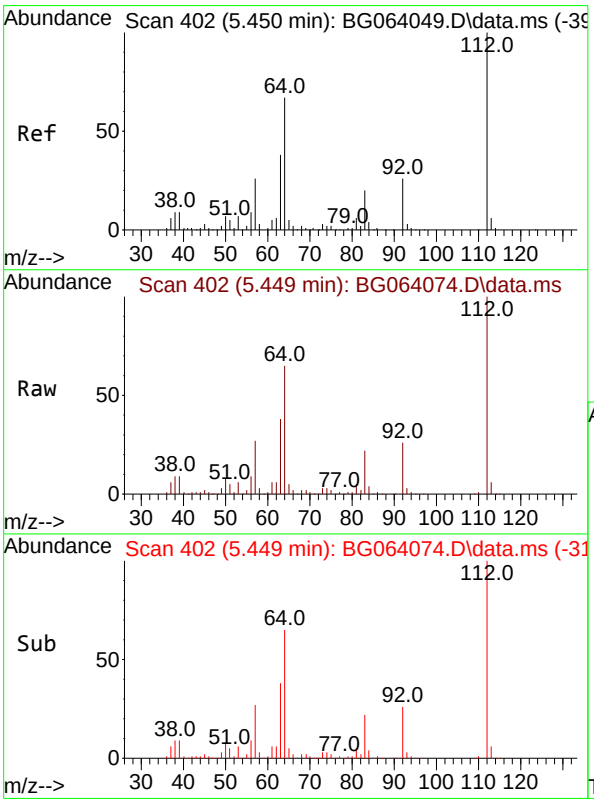
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.858 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion:152 Resp: 32741

Ion	Ratio	Lower	Upper
152	100		
150	150.1	129.2	193.8
115	69.8	63.0	94.6

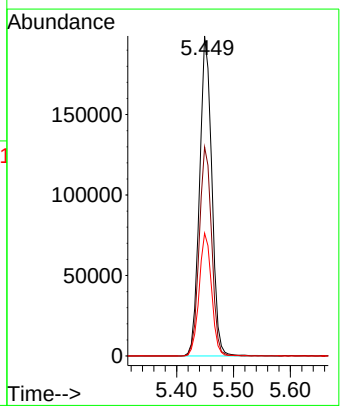


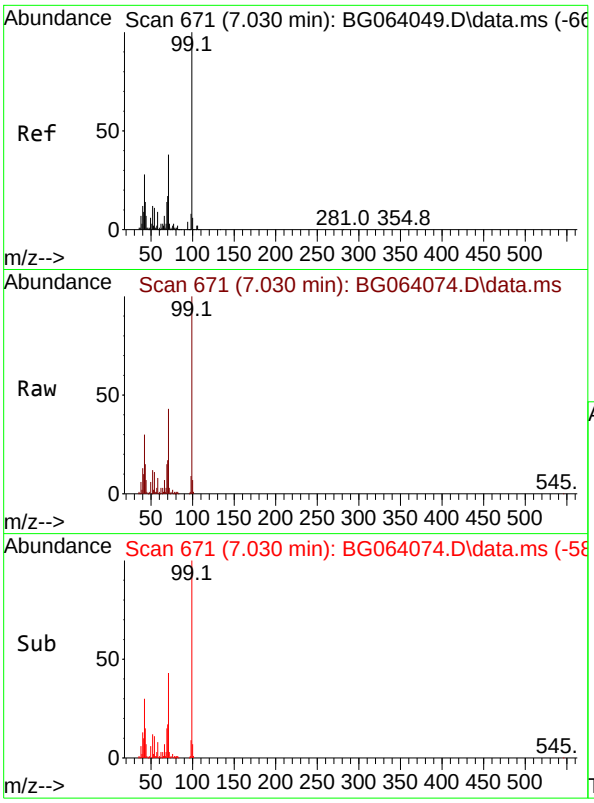


#5
2-Fluorophenol
Concen: 142.060 ng
RT: 5.449 min Scan# 402
Delta R.T. -0.001 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:112 Resp: 297876

Ion	Ratio	Lower	Upper
112	100		
64	65.3	53.7	80.5
63	38.3	30.2	45.4



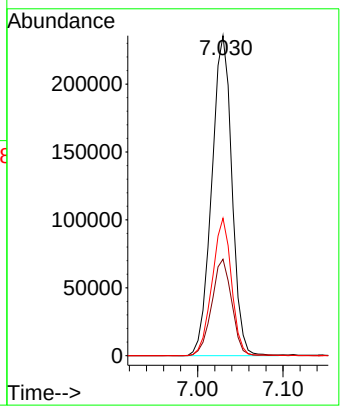


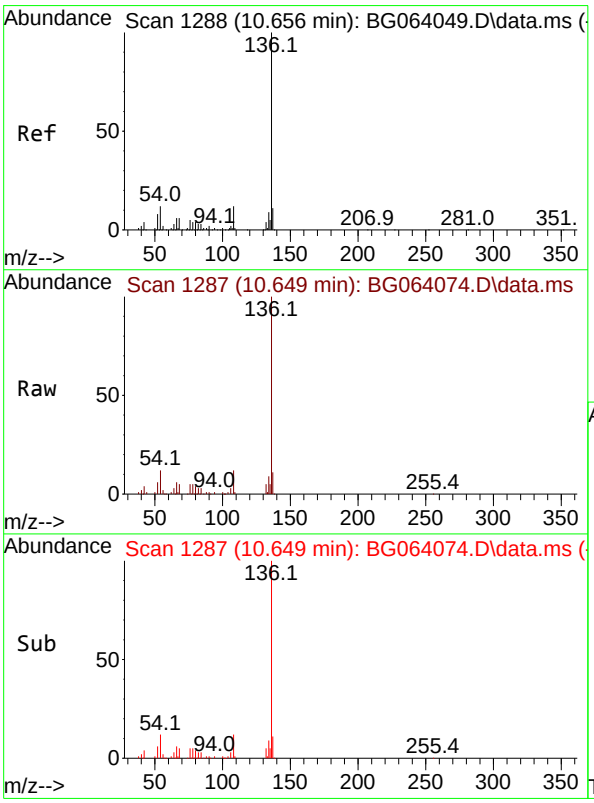
#7
Phenol-d6
Concen: 135.531 ng
RT: 7.030 min Scan# 6
Delta R.T. -0.001 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion: 99 Resp: 386605

Ion	Ratio	Lower	Upper
99	100		
42	30.2	22.7	34.1
71	42.9	30.6	46.0

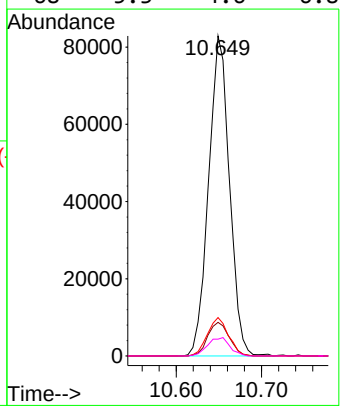


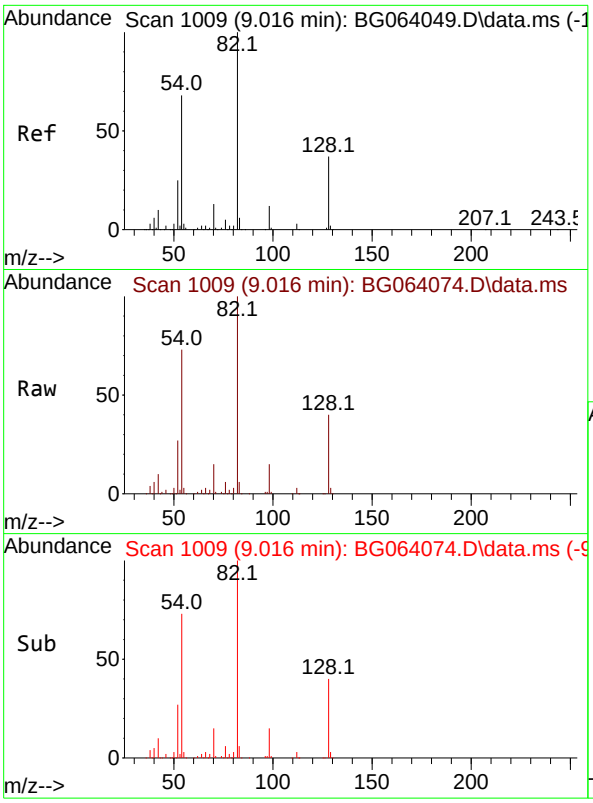


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:136 Resp: 140985

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.5	12.7
54	12.0	9.9	14.9
68	5.3	4.6	6.8



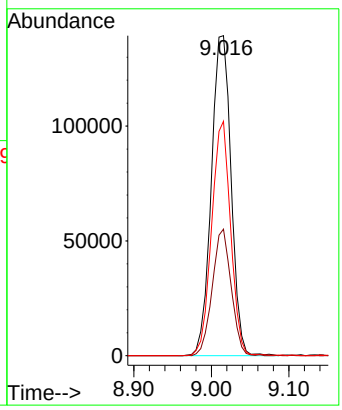


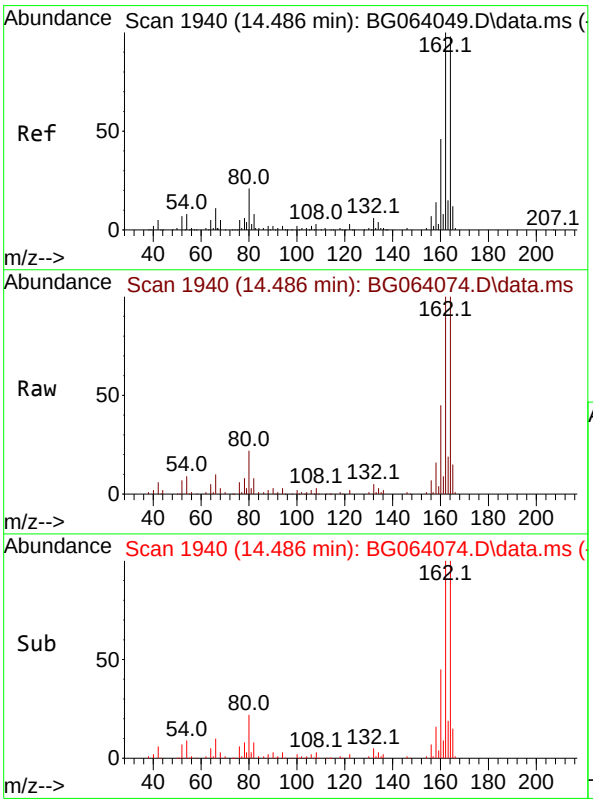
#23
Nitrobenzene-d5
Concen: 97.012 ng
RT: 9.016 min Scan# 1(
Delta R.T. -0.001 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion: 82 Resp: 247498

Ion	Ratio	Lower	Upper
82	100		
128	39.5	30.0	45.0
54	73.2	54.7	82.1

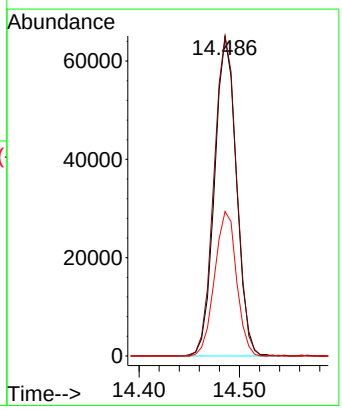


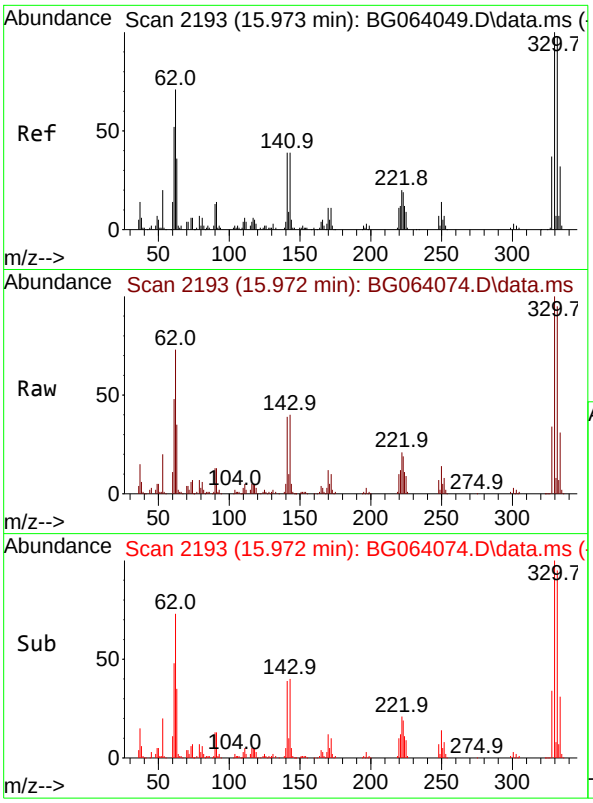


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:164 Resp: 98023

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.4	122.0
160	45.4	37.0	55.6



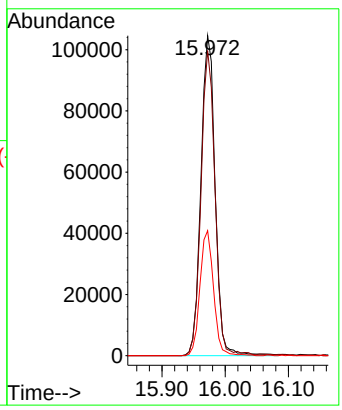


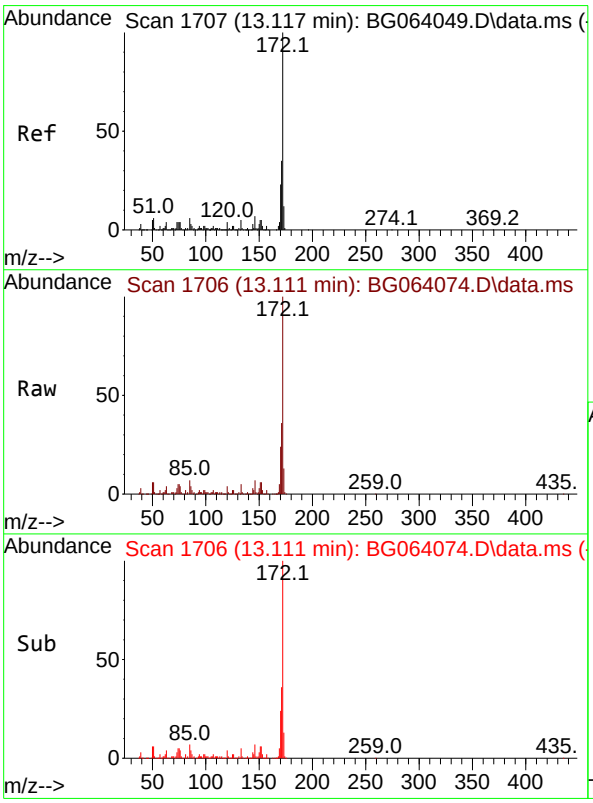
#42
2,4,6-Tribromophenol
Concen: 149.780 ng
RT: 15.972 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion:330 Resp: 163199

Ion	Ratio	Lower	Upper
330	100		
332	94.1	76.7	115.1
141	37.4	29.7	44.5

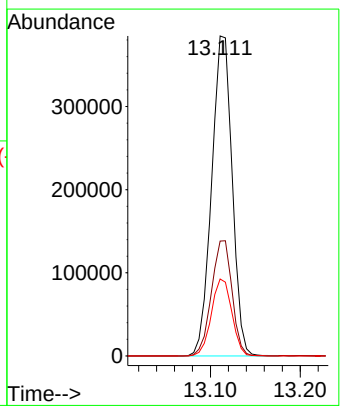


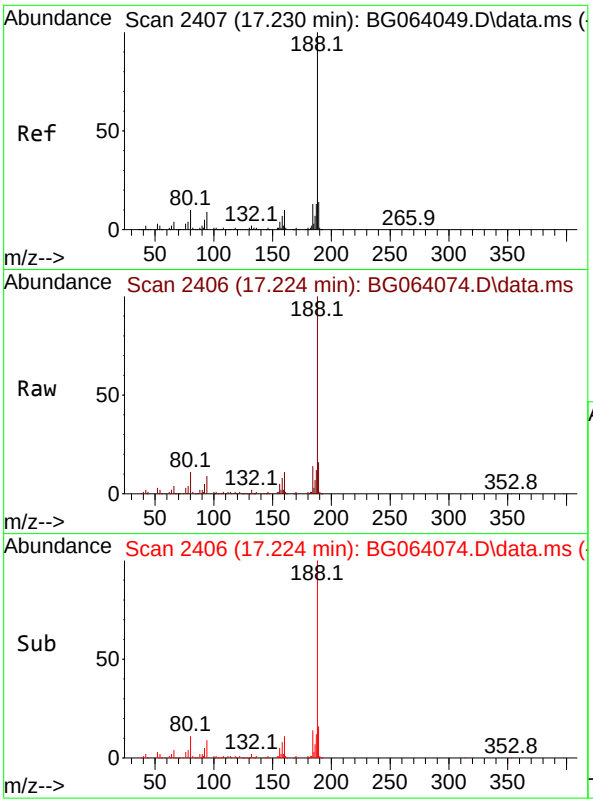


#45
2-Fluorobiphenyl
Concen: 94.673 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.007 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:172 Resp: 611388

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.0	42.0
170	24.1	18.7	28.1



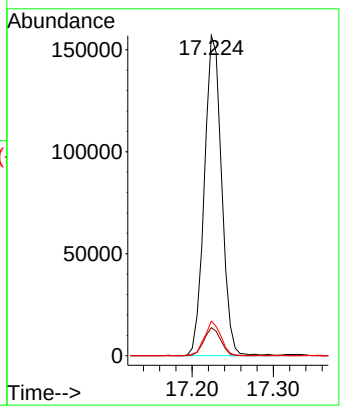


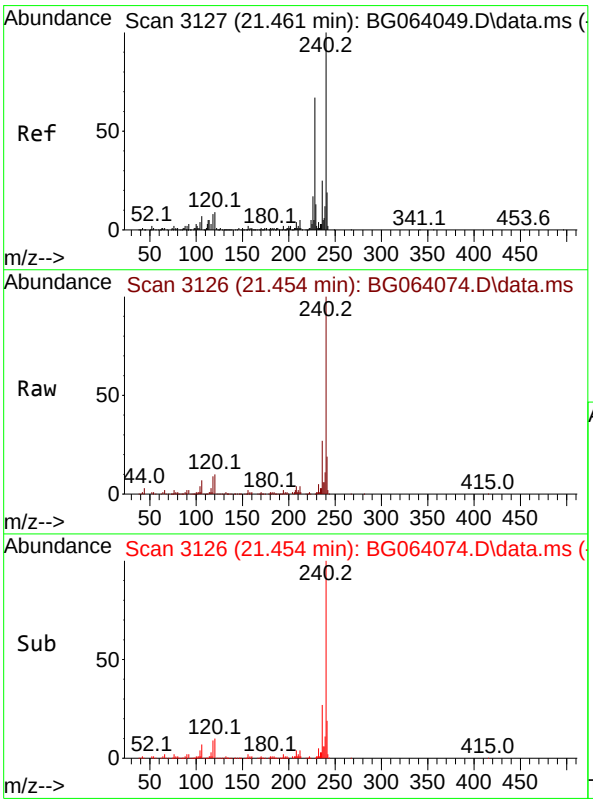
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion:188 Resp: 230921

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.9	10.3
80	10.8	8.1	12.1

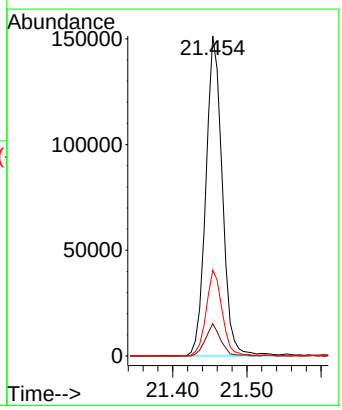


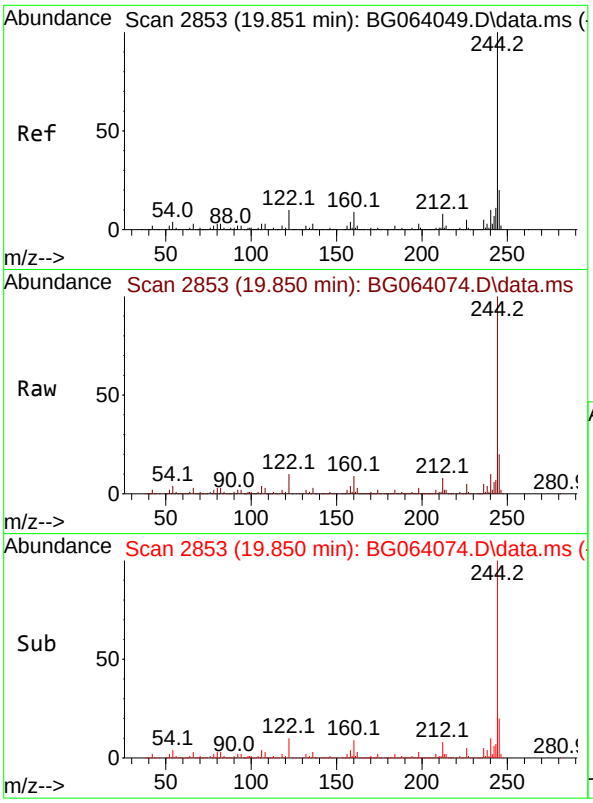


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.007 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:240 Resp: 233034

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.2	10.8
236	26.8	20.2	30.2



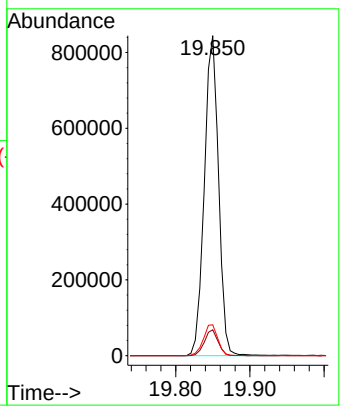


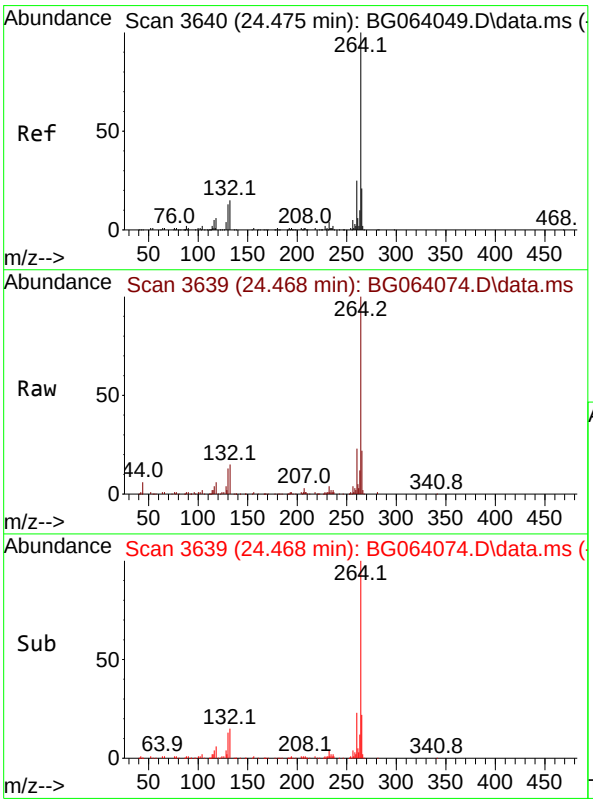
#79
Terphenyl-d14
Concen: 97.735 ng
RT: 19.850 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Instrument :
BNA_G
ClientSampleId :
PB167035BL

Tgt Ion:244 Resp: 1126387

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	9.7	8.0	12.0

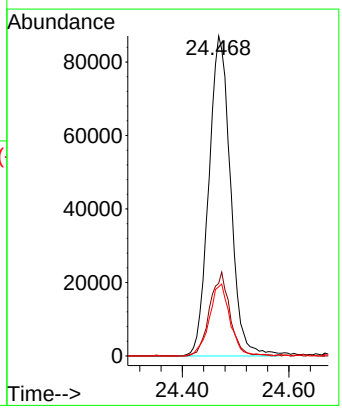




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3639
Delta R.T. -0.007 min
Lab File: BG064074.D
Acq: 10 Mar 2025 10:03

Tgt Ion:264 Resp: 246222

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.6	29.4
265	21.6	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064075.D
Acq On : 10 Mar 2025 10:44
Operator : RC/JU
Sample : PB167035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 12:22:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167035BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.862	152	35194	20.000	ng		# 0.00
21) Naphthalene-d8	10.647	136	154810	20.000	ng		0.00
39) Acenaphthene-d10	14.484	164	106817	20.000	ng		0.00
64) Phenanthrene-d10	17.228	188	235208	20.000	ng		0.00
76) Chrysene-d12	21.458	240	237204	20.000	ng		0.00
86) Perylene-d12	24.472	264	255311	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.453	112	312176	138.503	ng		0.00
7) Phenol-d6	7.034	99	419514	136.817	ng		0.00
23) Nitrobenzene-d5	9.014	82	271257	96.830	ng		0.00
42) 2,4,6-Tribromophenol	15.976	330	182401	153.621	ng		0.00
45) 2-Fluorobiphenyl	13.115	172	652866	92.773	ng		0.00
79) Terphenyl-d14	19.848	244	1140903	97.254	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.367	88	39346	38.518	ng		94
3) Pyridine	3.749	79	97422	39.216	ng		98
4) n-Nitrosodimethylamine	3.667	42	84337	47.515	ng	#	96
6) Aniline	7.192	93	112017	37.230	ng		98
8) 2-Chlorophenol	7.427	128	107800	44.532	ng		98
9) Benzaldehyde	6.998	77	38322m	21.489	ng		
10) Phenol	7.057	94	140681	44.812	ng		95
11) bis(2-Chloroethyl)ether	7.286	93	99871	40.578	ng		100
12) 1,3-Dichlorobenzene	7.756	146	108395	40.776	ng		97
13) 1,4-Dichlorobenzene	7.897	146	112149	41.159	ng		99
14) 1,2-Dichlorobenzene	8.215	146	108249	41.200	ng		97
15) Benzyl Alcohol	8.097	79	106765	45.059	ng		91
16) 2,2'-oxybis(1-Chloropr...	8.385	45	230210m	41.598	ng		
17) 2-Methylphenol	8.303	107	94962	45.577	ng		97
18) Hexachloroethane	8.943	117	42241	44.309	ng		98
19) n-Nitroso-di-n-propyla...	8.667	70	88518	41.135	ng		96
20) 3+4-Methylphenols	8.626	107	132073	46.044	ng		91
22) Acetophenone	8.679	105	192747	45.410	ng	#	99
24) Nitrobenzene	9.055	77	129434	44.708	ng		96
25) Isophorone	9.578	82	242957	43.330	ng		96
26) 2-Nitrophenol	9.766	139	45482	45.930	ng		95
27) 2,4-Dimethylphenol	9.825	122	98186	58.412	ng		93
28) bis(2-Chloroethoxy)met...	10.065	93	141763	41.702	ng		98
29) 2,4-Dichlorophenol	10.295	162	100351	47.279	ng		97
30) 1,2,4-Trichlorobenzene	10.518	180	107016	41.766	ng		98
31) Naphthalene	10.700	128	346205	41.473	ng		99
32) Benzoic acid	9.971	122	68746m	45.164	ng		
33) 4-Chloroaniline	10.806	127	59743	19.581	ng		97
34) Hexachlorobutadiene	10.994	225	72884	43.397	ng		97
35) Caprolactam	11.570	113	41781m	51.367	ng		
36) 4-Chloro-3-methylphenol	11.928	107	124775	44.847	ng		99
37) 2-Methylnaphthalene	12.310	142	244676	41.518	ng		97
38) 1-Methylnaphthalene	12.527	142	241268	41.788	ng		98
40) 1,2,4,5-Tetrachloroben...	12.680	216	142467	46.717	ng	#	96
41) Hexachlorocyclopentadiene	12.662	237	161060	187.650	ng		99
43) 2,4,6-Trichlorophenol	12.915	196	90250	50.214	ng		93

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064075.D
Acq On : 10 Mar 2025 10:44
Operator : RC/JU
Sample : PB167035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 12:22:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167035BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.986	196	97202	48.673	ng		97
46) 1,1'-Biphenyl	13.320	154	393645	48.778	ng		99
47) 2-Chloronaphthalene	13.362	162	259563	44.100	ng		99
48) 2-Nitroaniline	13.561	65	91303	46.946	ng		94
49) Acenaphthylene	14.208	152	423420	45.482	ng		100
50) Dimethylphthalate	13.949	163	337492	42.802	ng		100
51) 2,6-Dinitrotoluene	14.061	165	69943	44.023	ng		98
52) Acenaphthene	14.554	154	266063	42.585	ng		99
53) 3-Nitroaniline	14.384	138	44978	29.514	ng		99
54) 2,4-Dinitrophenol	14.595	184	60584	89.770	ng		91
55) Dibenzofuran	14.889	168	417547	41.254	ng		100
56) 4-Nitrophenol	14.695	139	130121	101.809	ng		94
57) 2,4-Dinitrotoluene	14.848	165	102503	46.559	ng	#	97
58) Fluorene	15.535	166	338764	42.973	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.112	232	92576m	47.550	ng		
60) Diethylphthalate	15.318	149	362756	42.379	ng		99
61) 4-Chlorophenyl-phenyle...	15.535	204	166039	42.385	ng		92
62) 4-Nitroaniline	15.553	138	75579	45.936	ng		93
63) Azobenzene	15.823	77	371087	40.626	ng		98
65) 4,6-Dinitro-2-methylph...	15.612	198	47302	46.799	ng		89
66) n-Nitrosodiphenylamine	15.747	169	299630	45.004	ng		99
67) 4-Bromophenyl-phenylether	16.423	248	112186	46.570	ng		92
68) Hexachlorobenzene	16.534	284	120627	44.727	ng		95
69) Atrazine	16.699	200	133132	67.961	ng		93
70) Pentachlorophenol	16.881	266	153962	91.945	ng		97
71) Phenanthrene	17.269	178	559131	44.568	ng		100
72) Anthracene	17.363	178	576746	46.233	ng		98
73) Carbazole	17.627	167	514613	44.184	ng		99
74) Di-n-butylphthalate	18.203	149	619724	45.203	ng		99
75) Fluoranthene	19.278	202	653932	43.237	ng		98
77) Benzidine	19.460	184	190171	57.898	ng		97
78) Pyrene	19.642	202	682286	44.621	ng		98
80) Butylbenzylphthalate	20.541	149	267979	46.803	ng		96
81) Benzo(a)anthracene	21.440	228	697575	45.909	ng		97
82) 3,3'-Dichlorobenzidine	21.364	252	155510	31.624	ng		98
83) Chrysene	21.505	228	678619	44.780	ng		99
84) Bis(2-ethylhexyl)phtha...	21.376	149	414970	50.498	ng		98
85) Di-n-octyl phthalate	22.521	149	710281	50.112	ng		99
87) Indeno(1,2,3-cd)pyrene	27.874	276	806871	47.234	ng		98
88) Benzo(b)fluoranthene	23.526	252	671571	43.511	ng		97
89) Benzo(k)fluoranthene	23.591	252	697549	45.050	ng		98
90) Benzo(a)pyrene	24.331	252	655055	47.655	ng		98
91) Dibenzo(a,h)anthracene	27.939	278	675312	47.685	ng		99
92) Benzo(g,h,i)perylene	28.932	276	632964	43.532	ng		96

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

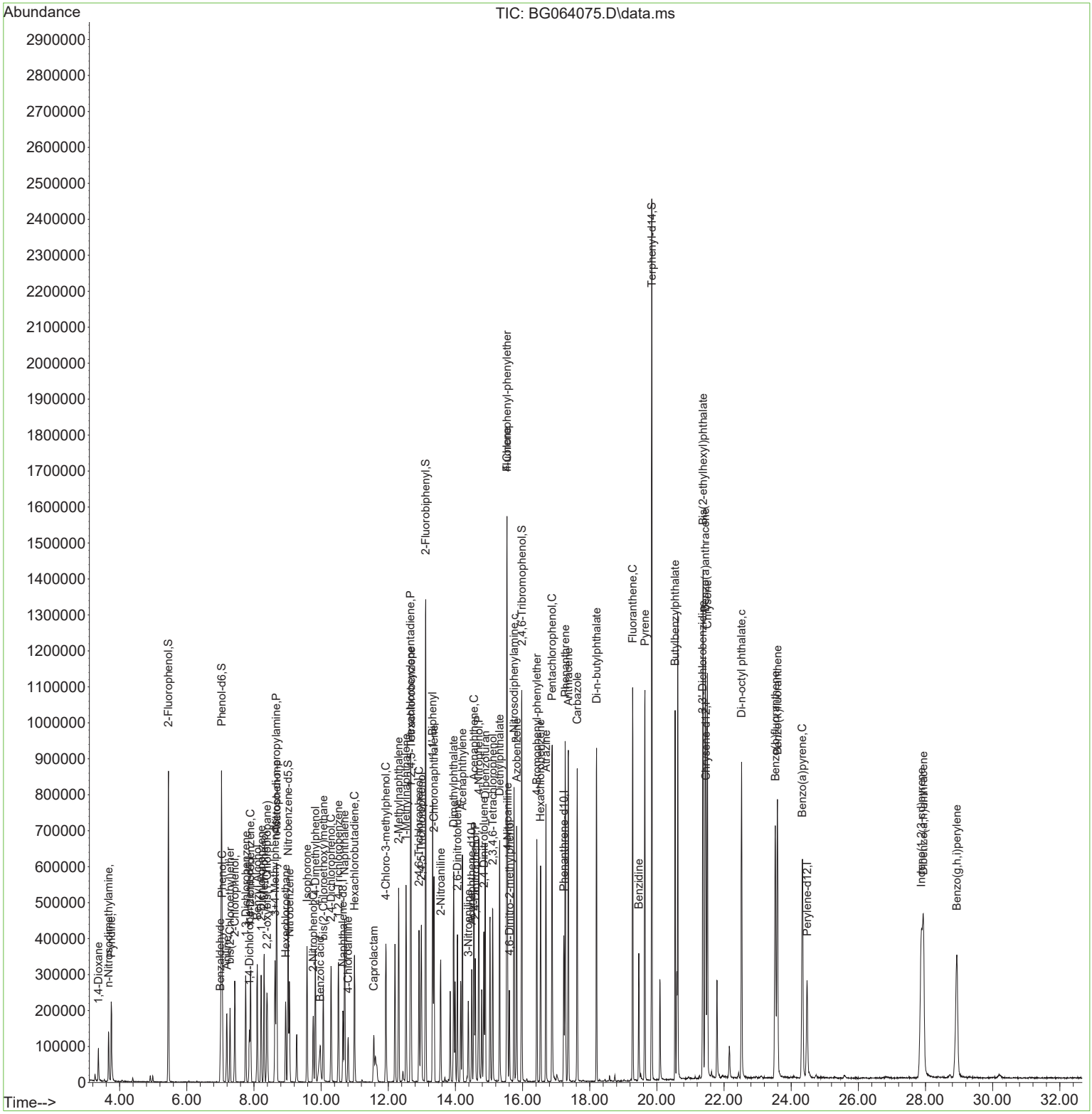
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031025\
Data File : BG064075.D
Acq On : 10 Mar 2025 10:44
Operator : RC/JU
Sample : PB167035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 12:22:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167035BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141893.D
Acq On : 07 Mar 2025 18:30
Operator : RC/JU
Sample : Q1488-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 21:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	146872	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	566046	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	296352	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	482424	20.000	ng	0.00
76) Chrysene-d12	14.045	240	376304	20.000	ng	0.00
86) Perylene-d12	15.515	264	373298	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1085782	118.061	ng	0.02
7) Phenol-d6	6.510	99	1289939	107.760	ng	0.00
23) Nitrobenzene-d5	7.445	82	976810	110.305	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	507581	182.438	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1887954	102.150	ng	0.00
79) Terphenyl-d14	12.986	244	1932793	83.100	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.805	88	134944	32.337	ng	# 79
3) Pyridine	3.534	79	304229	29.301	ng	94
4) n-Nitrosodimethylamine	3.463	42	167627	33.553	ng	# 95
6) Aniline	6.551	93	271425	21.810	ng	98
8) 2-Chlorophenol	6.669	128	392071	39.409	ng	95
9) Benzaldehyde	6.440	77	82387	11.832	ng	97
10) Phenol	6.522	94	421103	32.921	ng	96
11) bis(2-Chloroethyl)ether	6.622	93	347294	35.618	ng	95
12) 1,3-Dichlorobenzene	6.828	146	403448	37.867	ng	98
13) 1,4-Dichlorobenzene	6.904	146	413101	38.481	ng	99
14) 1,2-Dichlorobenzene	7.057	146	404172	40.318	ng	98
15) Benzyl Alcohol	7.022	79	376371	39.342	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	445763	30.103	ng	94
17) 2-Methylphenol	7.134	107	327586	39.891	ng	99
18) Hexachloroethane	7.398	117	149748	37.269	ng	96
19) n-Nitroso-di-n-propyla...	7.292	70	284179	36.114	ng	98
20) 3+4-Methylphenols	7.281	107	417320	40.811	ng	97
22) Acetophenone	7.292	105	635484	46.096	ng	97
24) Nitrobenzene	7.469	77	425775	44.899	ng	96
25) Isophorone	7.704	82	779771	40.987	ng	98
26) 2-Nitrophenol	7.781	139	202530	47.827	ng	97
27) 2,4-Dimethylphenol	7.810	122	347141	49.638	ng	97
28) bis(2-Chloroethoxy)met...	7.910	93	457528	37.700	ng	99
29) 2,4-Dichlorophenol	8.016	162	345967	42.882	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	365988	41.399	ng	99
31) Naphthalene	8.187	128	1141283	39.230	ng	99
32) Benzoic acid	7.910	122	245541	43.017	ng	99
33) 4-Chloroaniline	8.234	127	117535	11.018	ng	98
34) Hexachlorobutadiene	8.304	225	232432	42.309	ng	99
35) Caprolactam	8.592	113	107829m	43.446	ng	
36) 4-Chloro-3-methylphenol	8.710	107	387917	43.283	ng	99
37) 2-Methylnaphthalene	8.875	142	769169	40.308	ng	99
38) 1-Methylnaphthalene	8.975	142	735586	40.174	ng	98
40) 1,2,4,5-Tetrachloroben...	9.045	216	417293	48.755	ng	100
41) Hexachlorocyclopentadiene	9.028	237	385277	107.863	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	260598	47.135	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141893.D
Acq On : 07 Mar 2025 18:30
Operator : RC/JU
Sample : Q1488-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 21:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	273305	49.921	ng		98
46) 1,1'-Biphenyl	9.339	154	1127721	49.994	ng		98
47) 2-Chloronaphthalene	9.369	162	749626	45.026	ng		99
48) 2-Nitroaniline	9.457	65	238921	52.027	ng		95
49) Acenaphthylene	9.781	152	1179845	47.266	ng		99
50) Dimethylphthalate	9.639	163	929996	46.861	ng		99
51) 2,6-Dinitrotoluene	9.698	165	202875	53.116	ng		94
52) Acenaphthene	9.951	154	846529	50.260	ng		99
53) 3-Nitroaniline	9.869	138	121880	31.242	ng	#	92
54) 2,4-Dinitrophenol	9.975	184	171206	92.918	ng	#	1
55) Dibenzofuran	10.128	168	1036351	42.274	ng		99
56) 4-Nitrophenol	10.022	139	318494	108.658	ng		95
57) 2,4-Dinitrotoluene	10.104	165	265097	56.493	ng		90
58) Fluorene	10.469	166	843493	45.934	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	231562	48.633	ng		99
60) Diethylphthalate	10.339	149	887696	44.618	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	424604	46.150	ng		98
62) 4-Nitroaniline	10.480	138	191771	56.583	ng		97
63) Azobenzene	10.622	77	828989	39.573	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	114613	50.036	ng		88
66) n-Nitrosodiphenylamine	10.575	169	723072	45.645	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	266010	47.208	ng		96
68) Hexachlorobenzene	11.016	284	295638	49.684	ng		96
69) Atrazine	11.104	200	285547	65.549	ng		98
70) Pentachlorophenol	11.204	266	357301	94.677	ng		99
71) Phenanthrene	11.427	178	1199549	46.485	ng		99
72) Anthracene	11.480	178	1200670	46.426	ng		99
73) Carbazole	11.633	167	1040605	45.564	ng		99
74) Di-n-butylphthalate	11.963	149	1188156	41.042	ng		99
75) Fluoranthene	12.616	202	1125422	42.563	ng		96
77) Benzidine	12.733	184	358813	75.758	ng		99
78) Pyrene	12.845	202	1188284	36.467	ng		99
80) Butylbenzylphthalate	13.463	149	471966	39.865	ng		96
81) Benzo(a)anthracene	14.033	228	1131048	45.505	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	260330	36.506	ng		99
83) Chrysene	14.068	228	998763	43.591	ng		100
84) Bis(2-ethylhexyl)phtha...	14.021	149	621644	42.170	ng		99
85) Di-n-octyl phthalate	14.633	149	1101586	49.914	ng		96
87) Indeno(1,2,3-cd)pyrene	17.004	276	897282	37.748	ng	#	94
88) Benzo(b)fluoranthene	15.080	252	1178241	46.336	ng		99
89) Benzo(k)fluoranthene	15.115	252	1025295	47.439	ng		97
90) Benzo(a)pyrene	15.451	252	975022	47.812	ng		98
91) Dibenzo(a,h)anthracene	17.021	278	744676	38.380	ng	#	96
92) Benzo(g,h,i)perylene	17.451	276	665037	33.457	ng		95

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

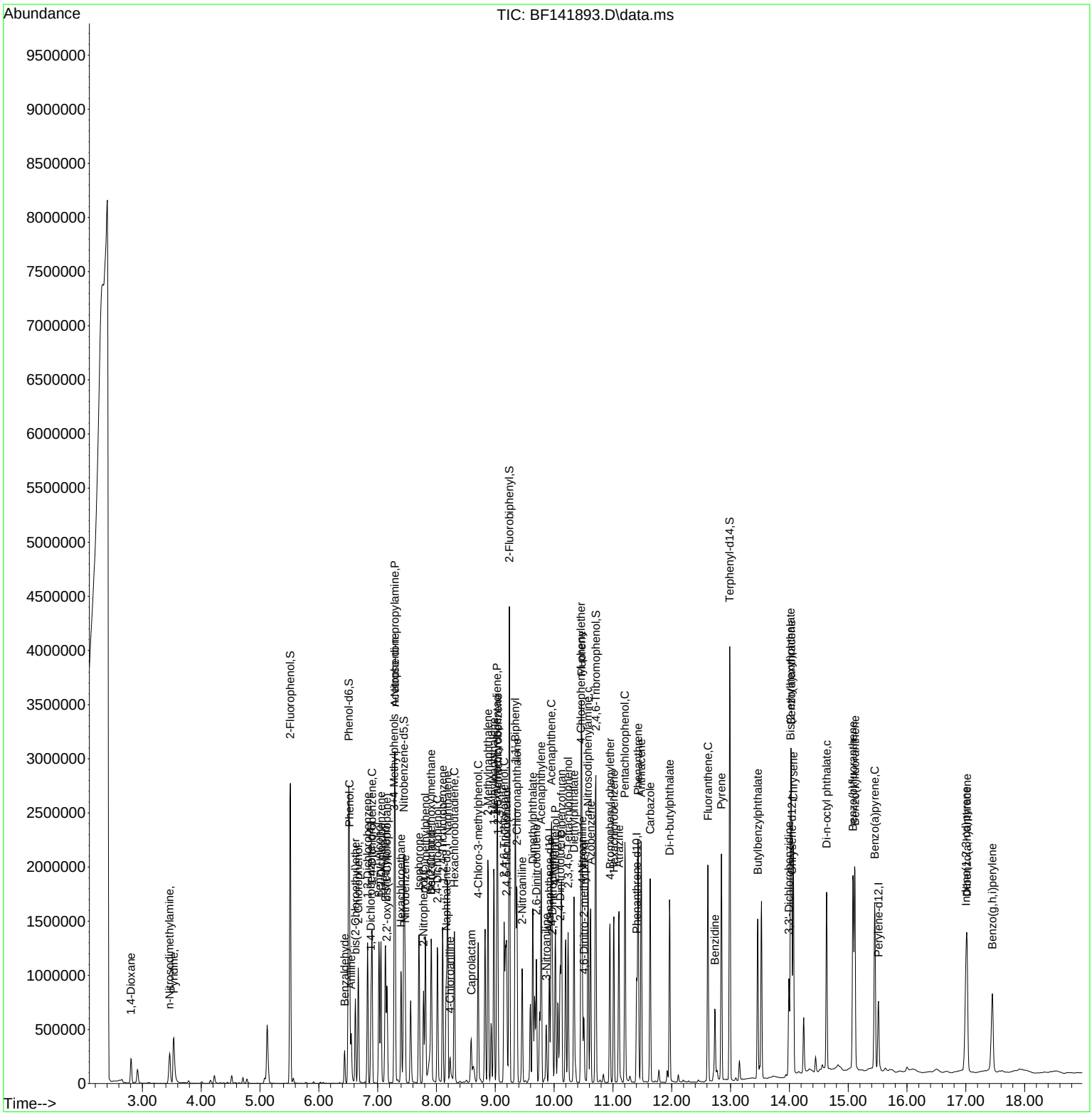
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141893.D
Acq On : 07 Mar 2025 18:30
Operator : RC/JU
Sample : Q1488-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 21:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141894.D
Acq On : 07 Mar 2025 18:59
Operator : RC/JU
Sample : Q1488-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 07 21:46:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	134345	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	510741	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	263683	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	403770	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	354164	20.000	ng	-0.01
86) Perylene-d12	15.515	264	380393	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1028686	122.282	ng	0.02
7) Phenol-d6	6.510	99	1205472	110.094	ng	0.00
23) Nitrobenzene-d5	7.445	82	896395	112.185	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	432585	174.746	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1677614	102.015	ng	0.00
79) Terphenyl-d14	12.986	244	1673540	76.452	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.804	88	130927	34.300	ng	# 81
3) Pyridine	3.528	79	291474	30.690	ng	94
4) n-Nitrosodimethylamine	3.463	42	160531	35.129	ng	# 96
6) Aniline	6.551	93	254074	22.320	ng	100
8) 2-Chlorophenol	6.669	128	371175	40.787	ng	95
9) Benzaldehyde	6.439	77	75536	11.860	ng	97
10) Phenol	6.522	94	392161	33.517	ng	95
11) bis(2-Chloroethyl)ether	6.622	93	324729	36.409	ng	95
12) 1,3-Dichlorobenzene	6.828	146	367281	37.687	ng	99
13) 1,4-Dichlorobenzene	6.904	146	370754	37.756	ng	100
14) 1,2-Dichlorobenzene	7.057	146	360428	39.307	ng	99
15) Benzyl Alcohol	7.022	79	333525	38.114	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	387872	28.636	ng	94
17) 2-Methylphenol	7.134	107	290487	38.672	ng	98
18) Hexachloroethane	7.398	117	137227	37.337	ng	98
19) n-Nitroso-di-n-propyla...	7.292	70	252681	35.105	ng	98
20) 3+4-Methylphenols	7.281	107	376329	40.234	ng	96
22) Acetophenone	7.292	105	563087	45.267	ng	98
24) Nitrobenzene	7.463	77	387430	45.279	ng	99
25) Isophorone	7.704	82	691206	40.266	ng	97
26) 2-Nitrophenol	7.781	139	186144	48.633	ng	97
27) 2,4-Dimethylphenol	7.810	122	315518	50.002	ng	97
28) bis(2-Chloroethoxy)met...	7.910	93	414927	37.892	ng	99
29) 2,4-Dichlorophenol	8.016	162	316269	43.446	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	327544	41.062	ng	99
31) Naphthalene	8.186	128	1053250	40.124	ng	99
32) Benzoic acid	7.910	122	208873	40.996	ng	98
33) 4-Chloroaniline	8.233	127	110589	11.490	ng	97
34) Hexachlorobutadiene	8.304	225	209578	42.280	ng	99
35) Caprolactam	8.592	113	92720m	41.403	ng	
36) 4-Chloro-3-methylphenol	8.710	107	342009	42.293	ng	99
37) 2-Methylnaphthalene	8.875	142	668844	38.846	ng	99
38) 1-Methylnaphthalene	8.975	142	659348	39.910	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	384500	50.489	ng	99
41) Hexachlorocyclopentadiene	9.033	237	354394	111.510	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	229240	46.600	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141894.D
Acq On : 07 Mar 2025 18:59
Operator : RC/JU
Sample : Q1488-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 07 21:46:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	245109	50.318	ng		99
46) 1,1'-Biphenyl	9.339	154	988985	49.276	ng		98
47) 2-Chloronaphthalene	9.369	162	659104	44.493	ng		99
48) 2-Nitroaniline	9.457	65	206180	50.590	ng		94
49) Acenaphthylene	9.780	152	1040851	46.864	ng		99
50) Dimethylphthalate	9.639	163	812721	46.025	ng		100
51) 2,6-Dinitrotoluene	9.698	165	175263	51.654	ng		94
52) Acenaphthene	9.951	154	722307	48.198	ng		98
53) 3-Nitroaniline	9.869	138	97436	28.372	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	137236	86.130	ng	#	1
55) Dibenzofuran	10.127	168	933866	42.813	ng		100
56) 4-Nitrophenol	10.022	139	270754	103.815	ng		94
57) 2,4-Dinitrotoluene	10.104	165	235820	56.481	ng		91
58) Fluorene	10.469	166	726575	44.469	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	204200	48.200	ng		99
60) Diethylphthalate	10.339	149	775577	43.812	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	367966	44.949	ng		98
62) 4-Nitroaniline	10.480	138	156047	51.746	ng		97
63) Azobenzene	10.622	77	705547	37.853	ng		97
65) 4,6-Dinitro-2-methylph...	10.510	198	94537	49.429	ng		86
66) n-Nitrosodiphenylamine	10.575	169	640239	48.289	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	222564	47.191	ng		98
68) Hexachlorobenzene	11.016	284	248851	49.968	ng		95
69) Atrazine	11.104	200	241903	66.347	ng		98
70) Pentachlorophenol	11.204	266	313151	99.142	ng		99
71) Phenanthrene	11.427	178	987200	45.709	ng		100
72) Anthracene	11.480	178	1008649	46.598	ng		99
73) Carbazole	11.633	167	873000	45.671	ng		99
74) Di-n-butylphthalate	11.963	149	1068561	44.102	ng		99
75) Fluoranthene	12.616	202	991365	44.797	ng		96
77) Benzidine	12.733	184	318211	71.385	ng		100
78) Pyrene	12.845	202	1030931	33.615	ng		98
80) Butylbenzylphthalate	13.463	149	408177	36.632	ng		96
81) Benzo(a)anthracene	14.033	228	1056782	45.175	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	254664	37.944	ng		99
83) Chrysene	14.068	228	931717	43.206	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	551160	39.726	ng		100
85) Di-n-octyl phthalate	14.633	149	997945	48.045	ng		95
87) Indeno(1,2,3-cd)pyrene	17.003	276	890859	36.779	ng		95
88) Benzo(b)fluoranthene	15.080	252	1102180	42.537	ng		98
89) Benzo(k)fluoranthene	15.115	252	956534m	43.432	ng		
90) Benzo(a)pyrene	15.451	252	972786	46.812	ng		98
91) Dibenzo(a,h)anthracene	17.021	278	740740	37.465	ng	#	95
92) Benzo(g,h,i)perylene	17.451	276	622794	30.747	ng		95

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

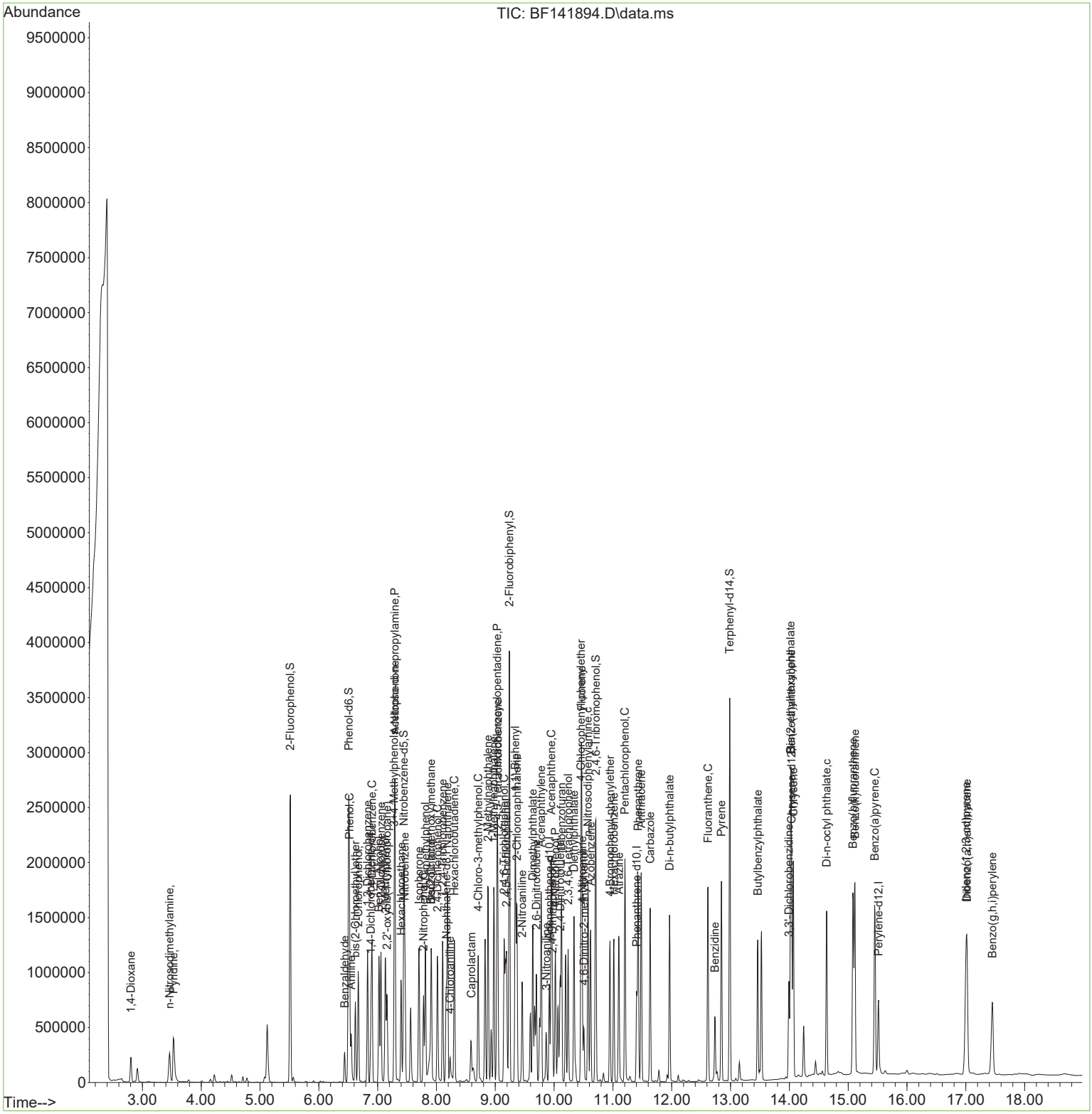
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
Data File : BF141894.D
Acq On : 07 Mar 2025 18:59
Operator : RC/JU
Sample : Q1488-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 07 21:46:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



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

Manual Integration Report

Sequence:	BF022725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF141794.D	Aniline	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC005	BF141794.D	Phenol	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC010	BF141795.D	Phenol	yogesh	2/28/2025 7:30:34 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC020	BF141796.D	Phenol	yogesh	2/28/2025 7:30:37 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICCC040	BF141797.D	Caprolactam	yogesh	2/28/2025 7:30:40 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Aniline	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Phenol	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF030725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-02MS	BF141893.D	Caprolactam	anahy	3/10/2025 10:25:33 AM	Jagrut	3/10/2025 10:28:36 AM	Peak Integrated by Software
Q1488-02MSD	BF141894.D	Benzo(k)fluoranthene	anahy	3/10/2025 10:26:37 AM	Jagrut	3/10/2025 10:28:38 AM	Peak Integrated by Software
Q1488-02MSD	BF141894.D	Caprolactam	anahy	3/10/2025 10:26:37 AM	Jagrut	3/10/2025 10:28:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BG064046.D	1,2-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	1,4-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	2,4,6-Trichlorophenol	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Acenaphthene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Benzidine	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Acenaphthene	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzaldehyde	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzidine	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzoic acid	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Acenaphthene	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzaldehyde	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzoic acid	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICCC040	BG064049.D	Acenaphthene	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BG064049.D	Benzoic acid	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Acenaphthene	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Benzoic acid	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC060	BG064051.D	Benzoic acid	Jagrut	3/6/2025 5:46:32 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC080	BG064052.D	Benzoic acid	Jagrut	3/6/2025 5:46:36 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Acenaphthene	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzaldehyde	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzoic acid	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bg031025	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BG064073.D	Acenaphthene	anahy	3/11/2025 8:56:05 AM	Jagrut	3/11/2025 10:19:44 AM	Peak Integrated by Software
SSTDCCC040	BG064073.D	Benzoic acid	anahy	3/11/2025 8:56:05 AM	Jagrut	3/11/2025 10:19:44 AM	Peak Integrated by Software
PB167035BS	BG064075.D	2,2"-oxybis(1-Chloropropane)	anahy	3/11/2025 8:59:14 AM	Jagrut	3/11/2025 10:19:47 AM	Peak Integrated by Software
PB167035BS	BG064075.D	2,3,4,6-Tetrachlorophenol	anahy	3/11/2025 8:59:14 AM	Jagrut	3/11/2025 10:19:47 AM	Peak Integrated by Software
PB167035BS	BG064075.D	Benzaldehyde	anahy	3/11/2025 8:59:14 AM	Jagrut	3/11/2025 10:19:47 AM	Peak Integrated by Software
PB167035BS	BG064075.D	Benzoic acid	anahy	3/11/2025 8:59:14 AM	Jagrut	3/11/2025 10:19:47 AM	Peak Integrated by Software
PB167035BS	BG064075.D	Caprolactam	anahy	3/11/2025 8:59:14 AM	Jagrut	3/11/2025 10:19:47 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM				
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM				
SubDirectory	BF022725	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

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	BF141792.D	27 Feb 2025 14:47	RC/JU	Ok
2	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17	RC/JU	Ok
3	SSTDICC005	BF141794.D	27 Feb 2025 15:46	RC/JU	Ok,M
4	SSTDICC010	BF141795.D	27 Feb 2025 16:16	RC/JU	Ok,M
5	SSTDICC020	BF141796.D	27 Feb 2025 16:46	RC/JU	Ok,M
6	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	RC/JU	Ok,M
7	SSTDICC050	BF141798.D	27 Feb 2025 17:46	RC/JU	Ok
8	SSTDICC060	BF141799.D	27 Feb 2025 18:15	RC/JU	Ok
9	SSTDICC080	BF141800.D	27 Feb 2025 18:45	RC/JU	Ok,M
10	SSTDICV040	BF141801.D	27 Feb 2025 19:45	RC/JU	Ok
11	PB166879TB	BF141802.D	27 Feb 2025 20:44	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030725

Review By	anahy	Review On	3/10/2025 10:26:54 AM				
Supervise By	Jagrut	Supervise On	3/10/2025 12:42:08 PM				
SubDirectory	BF030725	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

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	BF141881.D	07 Mar 2025 08:26	RC/JU	Ok
2	SSTDCCC040	BF141882.D	07 Mar 2025 08:56	RC/JU	Ok
3	PB167016BL	BF141883.D	07 Mar 2025 09:26	RC/JU	Ok
4	PB167016BS	BF141884.D	07 Mar 2025 09:55	RC/JU	Ok,M
5	PB166968TB	BF141885.D	07 Mar 2025 10:24	RC/JU	Ok
6	Q1478-13	BF141886.D	07 Mar 2025 11:00	RC/JU	Ok
7	Q1478-13MS	BF141887.D	07 Mar 2025 11:29	RC/JU	Ok,M
8	Q1478-13MSD	BF141888.D	07 Mar 2025 11:59	RC/JU	Ok,M
9	Q1481-02	BF141889.D	07 Mar 2025 12:29	RC/JU	Ok
10	Q1484-01DL	BF141890.D	07 Mar 2025 12:58	RC/JU	Ok,M
11	Q1518-01	BF141891.D	07 Mar 2025 13:28	RC/JU	Ok,M
12	Q1488-02	BF141892.D	07 Mar 2025 18:01	RC/JU	Ok
13	Q1488-02MS	BF141893.D	07 Mar 2025 18:30	RC/JU	Ok,M
14	Q1488-02MSD	BF141894.D	07 Mar 2025 18:59	RC/JU	Ok,M
15	Q1490-02	BF141895.D	07 Mar 2025 19:29	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

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	BG064044.D	5 Mar 2025 8:15	RC/JU	Ok
2	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02	RC/JU	Ok
3	SSTDICC005	BG064046.D	5 Mar 2025 9:42	RC/JU	Ok,M
4	SSTDICC010	BG064047.D	5 Mar 2025 10:22	RC/JU	Ok,M
5	SSTDICC020	BG064048.D	5 Mar 2025 11:03	RC/JU	Ok,M
6	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	RC/JU	Ok,M
7	SSTDICC050	BG064050.D	5 Mar 2025 12:23	RC/JU	Ok,M
8	SSTDICC060	BG064051.D	5 Mar 2025 13:04	RC/JU	Ok,M
9	SSTDICC080	BG064052.D	5 Mar 2025 13:44	RC/JU	Ok,M
10	SSTDICV040	BG064053.D	5 Mar 2025 15:10	RC/JU	Ok,M
11	PB166970BL	BG064054.D	5 Mar 2025 15:50	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG031025

Review By	anahy	Review On	3/11/2025 9:00:54 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:27:09 AM		
SubDirectory	BG031025	HP Acquire Method	BNA_G	HP Processing Method	bg030525

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	BG064072.D	10 Mar 2025 8:43	RC/JU	Ok
2	SSTDCCC040	BG064073.D	10 Mar 2025 9:23	RC/JU	Ok,M
3	PB167035BL	BG064074.D	10 Mar 2025 10:03	RC/JU	Ok
4	PB167035BS	BG064075.D	10 Mar 2025 10:44	RC/JU	Ok,M
5	PB167020TB	BG064076.D	10 Mar 2025 11:24	RC/JU	Ok
6	Q1488-04	BG064077.D	10 Mar 2025 12:22	RC/JU	Ok
7	Q1488-06	BG064078.D	10 Mar 2025 13:03	RC/JU	Ok
8	Q1488-08	BG064079.D	10 Mar 2025 13:43	RC/JU	Ok
9	Q1488-10	BG064080.D	10 Mar 2025 14:23	RC/JU	Ok
10	Q1488-12	BG064081.D	10 Mar 2025 15:04	RC/JU	Ok
11	Q1514-02	BG064082.D	10 Mar 2025 15:44	RC/JU	Ok
12	Q1514-04	BG064083.D	10 Mar 2025 16:25	RC/JU	Ok
13	Q1514-06	BG064084.D	10 Mar 2025 17:05	RC/JU	Ok
14	Q1524-01	BG064085.D	10 Mar 2025 17:46	RC/JU	Ok,M
15	Q1524-02	BG064086.D	10 Mar 2025 18:26	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141792.D	27 Feb 2025 14:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141794.D	27 Feb 2025 15:46	Compound #32,54,65,77 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF141795.D	27 Feb 2025 16:16	Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141796.D	27 Feb 2025 16:46	The Calibration is Fail for Com#77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF141798.D	27 Feb 2025 17:46		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141799.D	27 Feb 2025 18:15		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141800.D	27 Feb 2025 18:45	Compound #69 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF022725	BF141801.D	27 Feb 2025 19:45	ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD	RC/JU	Ok
11	PB166879TB	PB166879TB	BF141802.D	27 Feb 2025 20:44		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030725

Review By	anahy	Review On	3/10/2025 10:26:54 AM		
Supervise By	Jagrut	Supervise On	3/10/2025 12:42:08 PM		
SubDirectory	BF030725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

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	BF141881.D	07 Mar 2025 08:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141882.D	07 Mar 2025 08:56		RC/JU	Ok
3	PB167016BL	PB167016BL	BF141883.D	07 Mar 2025 09:26		RC/JU	Ok
4	PB167016BS	PB167016BS	BF141884.D	07 Mar 2025 09:55		RC/JU	Ok,M
5	PB166968TB	PB166968TB	BF141885.D	07 Mar 2025 10:24		RC/JU	Ok
6	Q1478-13	IDW-SO-COMP-022825	BF141886.D	07 Mar 2025 11:00		RC/JU	Ok
7	Q1478-13MS	IDW-SO-COMP-022825	BF141887.D	07 Mar 2025 11:29		RC/JU	Ok,M
8	Q1478-13MSD	IDW-SO-COMP-022825	BF141888.D	07 Mar 2025 11:59		RC/JU	Ok,M
9	Q1481-02	WC-K1311	BF141889.D	07 Mar 2025 12:29		RC/JU	Ok
10	Q1484-01DL	TR-OTR-COMP-01DL	BF141890.D	07 Mar 2025 12:58		RC/JU	Ok,M
11	Q1518-01	OILY-DEBRIS-COMP	BF141891.D	07 Mar 2025 13:28	Internal Standard Fail	RC/JU	Ok,M
12	Q1488-02	ENV-101-SB01	BF141892.D	07 Mar 2025 18:01		RC/JU	Ok
13	Q1488-02MS	ENV-101-SB01MS	BF141893.D	07 Mar 2025 18:30		RC/JU	Ok,M
14	Q1488-02MSD	ENV-101-SB01MSD	BF141894.D	07 Mar 2025 18:59		RC/JU	Ok,M
15	Q1490-02	CLAY-SLUDGE-DRUM	BF141895.D	07 Mar 2025 19:29		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

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	BG064044.D	5 Mar 2025 8:15		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BG064046.D	5 Mar 2025 9:42	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BG064047.D	5 Mar 2025 10:22		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BG064048.D	5 Mar 2025 11:03	Compound#32,51,54,57,65,80 Kept on LR & Compound#26,48 Kept on QR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	Calibration is good for 8270 E and 8270 DOD. Benzidine failed in the Calibration.	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BG064050.D	5 Mar 2025 12:23		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BG064051.D	5 Mar 2025 13:04	Compound#69 removed from 60 ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BG064052.D	5 Mar 2025 13:44	Compound#9,69 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBG030525	BG064053.D	5 Mar 2025 15:10		RC/JU	Ok,M
11	PB166970BL	PB166970BL	BG064054.D	5 Mar 2025 15:50		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG031025

Review By	anahy	Review On	3/11/2025 9:00:54 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:27:09 AM		
SubDirectory	BG031025	HP Acquire Method	BNA_G	HP Processing Method	bg030525

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	BG064072.D	10 Mar 2025 8:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG064073.D	10 Mar 2025 9:23		RC/JU	Ok,M
3	PB167035BL	PB167035BL	BG064074.D	10 Mar 2025 10:03		RC/JU	Ok
4	PB167035BS	PB167035BS	BG064075.D	10 Mar 2025 10:44		RC/JU	Ok,M
5	PB167020TB	PB167020TB	BG064076.D	10 Mar 2025 11:24		RC/JU	Ok
6	Q1488-04	ENV-101-SB02	BG064077.D	10 Mar 2025 12:22		RC/JU	Ok
7	Q1488-06	ENV-102-SB01	BG064078.D	10 Mar 2025 13:03		RC/JU	Ok
8	Q1488-08	ENV-102-SB02	BG064079.D	10 Mar 2025 13:43		RC/JU	Ok
9	Q1488-10	ENV-104-SB01	BG064080.D	10 Mar 2025 14:23		RC/JU	Ok
10	Q1488-12	ENV-104-SB02	BG064081.D	10 Mar 2025 15:04		RC/JU	Ok
11	Q1514-02	ENV-105-SB01	BG064082.D	10 Mar 2025 15:44		RC/JU	Ok
12	Q1514-04	ENV-105-SB02	BG064083.D	10 Mar 2025 16:25		RC/JU	Ok
13	Q1514-06	ENV-103-SB01	BG064084.D	10 Mar 2025 17:05		RC/JU	Ok
14	Q1524-01	72-11930-343-COMP	BG064085.D	10 Mar 2025 17:46		RC/JU	Ok,M
15	Q1524-02	VNJ-241	BG064086.D	10 Mar 2025 18:26		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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 : 03/06/2025 **Time :** 17:00

End Prep Date : 03/07/2025 **Time :** 11:20

Combination Ratio : 20

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

Initial Room Temperature: 25 °C

Final Room Temperature: 22 °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	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1L Amber bottle	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 in not required. TUMBLER T-1 /T-2 checked,30 rpm. q1514-06 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/07/25 12:30	JP / TCLP Room	JP RJ / EXT
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167020TB	LEB020	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A
Q1510-01	FMC-25-0001-0005	N/A	N/A	N/A	N/A	100	N/A
Q1514-02	ENV-105-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1514-04	ENV-105-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1514-06	ENV-103-SB01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167020

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
PB167020TB	LEB020	N/A	N/A	N/A	N/A	#1	4.94
Q1488-02	ENV-101-SB01	5.01	96.5	6.2	2.5	#1	4.94
Q1488-04	ENV-101-SB02	5.02	96.5	6.6	2.0	#1	4.94
Q1488-06	ENV-102-SB01	5.03	96.5	6.2	2.5	#1	4.94
Q1488-08	ENV-102-SB02	5.04	96.5	7.2	2.5	#1	4.94
Q1488-10	ENV-104-SB01	5.03	96.5	6.6	2.0	#1	4.94
Q1488-12	ENV-104-SB02	5.02	96.5	7.0	2.5	#1	4.94
Q1490-02	CLAY-SLUDGE-DRUMS	5.04	96.5	7.0	2.5	#1	4.94
Q1494-04	ASPHALT-SOIL	5.01	96.5	8.6	3.0	#1	4.94
Q1494-06	SOIL	5.02	96.5	9.1	4.0	#1	4.94
Q1494-08	SOIL-COMP	5.04	96.5	8.6	3.5	#1	4.94
Q1510-01	FMC-25-0001-0005	5.03	96.5	5.6	1.5	#1	4.94
Q1514-02	ENV-105-SB01	5.01	96.5	7.6	2.5	#1	4.94
Q1514-04	ENV-105-SB02	5.02	96.5	8.0	3.0	#1	4.94
Q1514-06	ENV-103-SB01	5.03	96.5	9.1	3.5	#1	4.94

Q1488

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1490 **WorkList ID :** 188086 **Department :** TCLP Extraction **Date :** 03-06-2025 11:40:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-02	ENV-101-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-04	ENV-101-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-06	ENV-102-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-08	ENV-102-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-10	ENV-104-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-12	ENV-104-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1494-04	ASPHALT-SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311
Q1494-06	SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1494-08	SOIL-COMP	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1510-01	FMC-25-0001-0005	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1514-02	ENV-105-SB01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/06/2025	1311
Q1514-04	ENV-105-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311
Q1514-06	ENV-103-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311

909 of 2177

Date/Time 03106125 16:10

Raw Sample Received by: SB (WC)

Raw Sample Relinquished by: CA SM

Date/Time 03106125 18:00

Raw Sample Received by: CA SM

Raw Sample Relinquished by: SB (WC)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167035

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/07/2025
Matrix :	Water			**Extraction Start Time :**	12:45
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	03/07/2025
Balance check:	N/A	**Filter By:**	RS	**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 :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
H2SO4 1:1	N/A	EP2565
10N NaoH	N/A	EP2559
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/7/25	RS (Ext-Lab)	RC/SVOC
17:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167035

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/07/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167020TB	PB167020TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB167035BL	PB167035BL	TCLP BNA	1000	6	RUPESH	ritesh	1			2
PB167035BS	PB167035BS	TCLP BNA	1000	6	RUPESH	ritesh	1			3
Q1488-02	ENV-101-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q1488-02MS	ENV-101-SB01MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1488-02MSD	ENV-101-SB01MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1488-04	ENV-101-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1488-06	ENV-102-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q1488-08	ENV-102-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q1488-10	ENV-104-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q1488-12	ENV-104-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q1490-02	CLAY-SLUDGE-DRUMS	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q1494-04	ASPHALT-SOIL	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q1494-06	SOIL	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
Q1494-08	SOIL-COMP	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
Q1514-02	ENV-105-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		16
Q1514-04	ENV-105-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		17
Q1514-06	ENV-103-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		18

RS
3/7

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

03/07/25

12:30

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP BNA	8270E		03/07/25	03/07/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**			**03/04/25**

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LAB CHRONICLE

			TCLP BNA	8270E		03/07/25	03/10/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/11/25
Client Sample ID:	PB167020TB	SDG No.:	Q1488
Lab Sample ID:	PB167020TB	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
PL094684.D	1	03/11/25 11:54	03/13/25 17:33	PB167091

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	21.7		30 (43) - 150 (140)	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.6		30 (77) - 150 (126)	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	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
PL094647.D	1	03/11/25 11:54	03/12/25 18:15	PB167091

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	25.1		30 (43) - 150 (140)	125%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		30 (77) - 150 (126)	105%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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M = MS/MSD acceptance criteria did not meet requirements

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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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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
PL094650.D	1	03/11/25 11:54	03/12/25 18:56	PB167091

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	24.1		30 (43) - 150 (140)	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		30 (77) - 150 (126)	109%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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
PL094654.D	1	03/11/25 11:54	03/12/25 20:05	PB167091

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	28.5		30 (43) - 150 (140)	143%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.1		30 (77) - 150 (126)	111%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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
PL094655.D	1	03/11/25 11:54	03/12/25 20:19	PB167091

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	27.2		30 (43) - 150 (140)	136%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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
PL094656.D	1	03/11/25 11:54	03/12/25 20:33	PB167091

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	26.1		30 (43) - 150 (140)	131%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		30 (77) - 150 (126)	102%	SPK: 20

Comments:

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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
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() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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
PL094657.D	1	03/11/25 11:54	03/12/25 20:46	PB167091

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	27.5		30 (43) - 150 (140)	137%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		30 (77) - 150 (126)	106%	SPK: 20

Comments:

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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
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() = Laboratory InHouse Limit

QC SUMMARY

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

SDG No.: Q1488

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-PL094639.D	PIBLK-PL094639.D	Decachlorobiphenyl	1	20	24.1	121		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.0	105		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	23.8	119		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
Q1488-02	ENV-101-SB01	Decachlorobiphenyl	1	20	25.1	125		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.7	99		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	23.8	119		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
Q1488-02MS	ENV-101-SB01MS	Decachlorobiphenyl	1	20	27.9	139		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	26.8	134		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (77)	150 (126)
Q1488-02MSD	ENV-101-SB01MSD	Decachlorobiphenyl	1	20	27.8	139		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.9	104		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	26.7	133		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.8	109		30 (77)	150 (126)
Q1488-04	ENV-101-SB02	Decachlorobiphenyl	1	20	23.3	116		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.8	99		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	24.1	120		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.9	109		30 (77)	150 (126)
I.BLK-PL094651.D	PIBLK-PL094651.D	Decachlorobiphenyl	1	20	26.8	134		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.0	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	24.6	123		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.4	112		30 (77)	150 (126)
Q1488-06	ENV-102-SB01	Decachlorobiphenyl	1	20	28.5	143		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.1	111		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	27.1	135		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.5	108		30 (77)	150 (126)
Q1488-08	ENV-102-SB02	Decachlorobiphenyl	1	20	27.2	136		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	25.9	130		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.5	102		30 (77)	150 (126)
Q1488-10	ENV-104-SB01	Decachlorobiphenyl	1	20	26.1	131		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.9	99		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	25.0	125		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.5	102		30 (77)	150 (126)
Q1488-12	ENV-104-SB02	Decachlorobiphenyl	1	20	27.5	137		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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1488-12	ENV-104-SB02	Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	26.5	133		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (77)	150 (126)
I.BLK-PL094663.D	PIBLK-PL094663.D	Decachlorobiphenyl	1	20	28.3	141		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	23.2	116		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	26.4	132		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	23.4	117		30 (77)	150 (126)
I.BLK-PL094676.D	PIBLK-PL094676.D	Decachlorobiphenyl	1	20	23.1	115		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.2	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (77)	150 (126)
PB167091BL	PB167091BL	Decachlorobiphenyl	1	20	25.8	129		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.2	106		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.2	106		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.9	109		30 (77)	150 (126)
PB167091BS	PB167091BS	Decachlorobiphenyl	1	20	24.4	122		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.2	96		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.0	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (77)	150 (126)
PB167020TB	PB167020TB	Decachlorobiphenyl	1	20	21.7	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.1	86		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	17.9	90		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.6	88		30 (77)	150 (126)
I.BLK-PL094694.D	PIBLK-PL094694.D	Decachlorobiphenyl	1	20	24.5	123		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.3	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.5	112		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.2	96		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL094648.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**ENV-101-SB01MS**											
Q1488-02MS	gamma-BHC (Lindane)	5	0	7.40	ug/L	148				30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.60	ug/L	112				30 (77)	150 (143)	
	Endrin	5	0	5.80	ug/L	116				30 (76)	150 (144)	
	Methoxychlor	5	0	5.70	ug/L	114				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL094649.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:	**ENV-101-SB01MSD**											
Q1488-02MSD	gamma-BHC (Lindane)	5	0	7.30	ug/L	146		1		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.40	ug/L	108		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.60	ug/L	112		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.80	ug/L	116		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.60	ug/L	112		2		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL094683.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167091BS	gamma-BHC (Lindane)	0.5	0.48	ug/L	95				40 (82)	140 (129)	
	Heptachlor	0.5	0.47	ug/L	95				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.48	ug/L	97				40 (81)	140 (124)	
	Endrin	0.5	0.49	ug/L	98				40 (81)	140 (128)	
	Methoxychlor	0.5	0.53	ug/L	106				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167091BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB167091BL Lab File ID: PL094682.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 03/11/2025

Date Analyzed (1): 03/13/2025 Date Analyzed (2): 03/13/2025

Time Analyzed (1): 16:34 Time Analyzed (2): 16:34

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
ENV-101-SB01	Q1488-02	PL094647.D	03/12/2025	03/12/2025
ENV-101-SB01MS	Q1488-02MS	PL094648.D	03/12/2025	03/12/2025
ENV-101-SB01MSD	Q1488-02MSD	PL094649.D	03/12/2025	03/12/2025
ENV-101-SB02	Q1488-04	PL094650.D	03/12/2025	03/12/2025
ENV-102-SB01	Q1488-06	PL094654.D	03/12/2025	03/12/2025
ENV-102-SB02	Q1488-08	PL094655.D	03/12/2025	03/12/2025
ENV-104-SB01	Q1488-10	PL094656.D	03/12/2025	03/12/2025
ENV-104-SB02	Q1488-12	PL094657.D	03/12/2025	03/12/2025
PB167091BS	PB167091BS	PL094683.D	03/13/2025	03/13/2025
PB167020TB	PB167020TB	PL094684.D	03/13/2025	03/13/2025

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:	PB167091BL	SDG No.:	Q1488
Lab Sample ID:	PB167091BL	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
PL094682.D	1	03/11/25 11:54	03/13/25 16:34	PB167091

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	25.8		30 (43) - 150 (140)	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		30 (77) - 150 (126)	109%	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:	03/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/11/25
Client Sample ID:	PIBLK-PL094566.D	SDG No.:	Q1488
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:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PL094639.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PL094639.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
PL094639.D	1		03/12/25	PL031225

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	24.1		30 (43) - 150 (140)	121%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		30 (77) - 150 (126)	105%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PL094651.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PL094651.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
PL094651.D	1		03/12/25	PL031225

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	26.8		30 (43) - 150 (140)	134%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.4		30 (77) - 150 (126)	112%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PL094663.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PL094663.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
PL094663.D	1		03/12/25	PL031225

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	28.3		30 (43) - 150 (140)	141%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.4		30 (77) - 150 (126)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/13/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/13/25
Client Sample ID:	PIBLK-PL094676.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PL094676.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
PL094676.D	1		03/13/25	PL031325

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	23.1		30 (43) - 150 (140)	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		30 (77) - 150 (126)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/13/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/13/25
Client Sample ID:	PIBLK-PL094694.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PL094694.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
PL094694.D	1		03/13/25	PL031325

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	24.5		30 (43) - 150 (140)	123%	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
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:	PB167091BS	SDG No.:	Q1488
Lab Sample ID:	PB167091BS	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
PL094683.D	1	03/11/25 11:54	03/13/25 17:20	PB167091

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.48		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.47		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.48		0.0096	0.050	ug/L
72-20-8	Endrin	0.49		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.53		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	24.4		30 (43) - 150 (140)	122%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		30 (77) - 150 (126)	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MS	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
PL094648.D	1	03/11/25 11:54	03/12/25 18:29	PB167091

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	7.40		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.80		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.70		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	27.9		30 (43) - 150 (140)	139%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MSD	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
PL094649.D	1	03/11/25 11:54	03/12/25 18:42	PB167091

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	7.30		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.80		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.60		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	27.8		30 (43) - 150 (140)	139%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.8		30 (77) - 150 (126)	109%	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
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 15:49 **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	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
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	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 15:49 **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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094640.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.053	8.956	9.156	51.250	50.000	2.5
Endrin	6.571	6.474	6.674	45.720	50.000	-8.6
gamma-BHC (Lindane)	4.326	4.227	4.427	48.680	50.000	-2.6
Heptachlor	4.913	4.815	5.015	47.570	50.000	-4.9
Heptachlor epoxide	5.682	5.583	5.783	48.580	50.000	-2.8
Methoxychlor	7.499	7.400	7.600	49.660	50.000	-0.7
Tetrachloro-m-xylene	3.537	3.438	3.638	49.080	50.000	-1.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094640.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.904	7.807	8.007	53.140	50.000	6.3
Endrin	5.631	5.534	5.734	50.500	50.000	1.0
gamma-BHC (Lindane)	3.603	3.504	3.704	52.540	50.000	5.1
Heptachlor	3.940	3.842	4.042	50.950	50.000	1.9
Heptachlor epoxide	4.722	4.625	4.825	51.880	50.000	3.8
Methoxychlor	6.604	6.507	6.707	50.260	50.000	0.5
Tetrachloro-m-xylene	2.771	2.672	2.872	51.710	50.000	3.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 19:38 **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	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	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	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 19:38 **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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094653.D **Time Analyzed:** 19:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.050	8.956	9.156	57.460	50.000	14.9
Endrin	6.570	6.474	6.674	46.520	50.000	-7.0
gamma-BHC (Lindane)	4.325	4.227	4.427	51.810	50.000	3.6
Heptachlor	4.912	4.815	5.015	48.640	50.000	-2.7
Heptachlor epoxide	5.681	5.583	5.783	50.640	50.000	1.3
Methoxychlor	7.497	7.400	7.600	50.870	50.000	1.7
Tetrachloro-m-xylene	3.537	3.438	3.638	52.660	50.000	5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094653.D **Time Analyzed:** 19:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.903	7.807	8.007	56.290	50.000	12.6
Endrin	5.631	5.534	5.734	51.880	50.000	3.8
gamma-BHC (Lindane)	3.602	3.504	3.704	55.610	50.000	11.2
Heptachlor	3.940	3.842	4.042	52.170	50.000	4.3
Heptachlor epoxide	4.721	4.625	4.825	54.580	50.000	9.2
Methoxychlor	6.604	6.507	6.707	50.690	50.000	1.4
Tetrachloro-m-xylene	2.771	2.672	2.872	55.740	50.000	11.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 22:22 **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	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	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	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 22:22 **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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094664.D **Time Analyzed:** 22:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.050	8.956	9.156	57.790	50.000	15.6
Endrin	6.570	6.474	6.674	47.710	50.000	-4.6
gamma-BHC (Lindane)	4.325	4.227	4.427	53.770	50.000	7.5
Heptachlor	4.912	4.815	5.015	50.100	50.000	0.2
Heptachlor epoxide	5.680	5.583	5.783	52.710	50.000	5.4
Methoxychlor	7.496	7.400	7.600	52.160	50.000	4.3
Tetrachloro-m-xylene	3.536	3.438	3.638	53.830	50.000	7.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/12/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094664.D **Time Analyzed:** 22:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.904	7.807	8.007	57.440	50.000	14.9
Endrin	5.631	5.534	5.734	52.440	50.000	4.9
gamma-BHC (Lindane)	3.603	3.504	3.704	56.730	50.000	13.5
Heptachlor	3.940	3.842	4.042	52.860	50.000	5.7
Heptachlor epoxide	4.722	4.625	4.825	55.720	50.000	11.4
Methoxychlor	6.604	6.507	6.707	50.980	50.000	2.0
Tetrachloro-m-xylene	2.771	2.672	2.872	56.680	50.000	13.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/13/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 15:25 **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	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	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	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/13/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 15:25 **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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 03/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094677.D **Time Analyzed:** 15:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.051	8.956	9.156	58.110	50.000	16.2
Endrin	6.571	6.474	6.674	52.220	50.000	4.4
gamma-BHC (Lindane)	4.325	4.227	4.427	50.970	50.000	1.9
Heptachlor	4.912	4.815	5.015	49.860	50.000	-0.3
Heptachlor epoxide	5.680	5.583	5.783	50.170	50.000	0.3
Methoxychlor	7.497	7.400	7.600	59.780	50.000	19.6
Tetrachloro-m-xylene	3.536	3.438	3.638	50.700	50.000	1.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 03/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094677.D **Time Analyzed:** 15:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.903	7.807	8.007	56.820	50.000	13.6
Endrin	5.631	5.534	5.734	53.420	50.000	6.8
gamma-BHC (Lindane)	3.602	3.504	3.704	53.970	50.000	7.9
Heptachlor	3.940	3.842	4.042	53.200	50.000	6.4
Heptachlor epoxide	4.721	4.625	4.825	53.810	50.000	7.6
Methoxychlor	6.604	6.507	6.707	59.420	50.000	18.8
Tetrachloro-m-xylene	2.770	2.672	2.872	53.610	50.000	7.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/13/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:04 **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	3.54	3.54	3.44	3.64	0.00
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	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/13/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:04 **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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 03/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094695.D **Time Analyzed:** 20:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.048	8.956	9.156	53.870	50.000	7.7
Endrin	6.568	6.474	6.674	46.050	50.000	-7.9
gamma-BHC (Lindane)	4.324	4.227	4.427	47.020	50.000	-6.0
Heptachlor	4.911	4.815	5.015	45.500	50.000	-9.0
Heptachlor epoxide	5.679	5.583	5.783	45.670	50.000	-8.7
Methoxychlor	7.496	7.400	7.600	54.200	50.000	8.4
Tetrachloro-m-xylene	3.535	3.438	3.638	46.690	50.000	-6.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 03/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094695.D **Time Analyzed:** 20:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.902	7.807	8.007	51.700	50.000	3.4
Endrin	5.629	5.534	5.734	48.760	50.000	-2.5
gamma-BHC (Lindane)	3.601	3.504	3.704	49.290	50.000	-1.4
Heptachlor	3.939	3.842	4.042	48.060	50.000	-3.9
Heptachlor epoxide	4.720	4.625	4.825	49.010	50.000	-2.0
Methoxychlor	6.602	6.507	6.707	52.890	50.000	5.8
Tetrachloro-m-xylene	2.770	2.672	2.872	49.280	50.000	-1.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

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.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094621.D **Date Analyzed:** 03/12/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	22.150	20.000	10.8
Tetrachloro-m-xylene	3.539	3.490	3.590	20.850	20.000	4.3
alpha-BHC	3.994	3.940	4.040	10.750	10.000	7.5
beta-BHC	4.526	4.480	4.580	10.570	10.000	5.7
gamma-BHC (Lindane)	4.327	4.280	4.380	10.700	10.000	7.0
Endrin	6.573	6.500	6.640	41.560	50.000	-16.9
4,4'-DDT	7.025	6.950	7.100	87.210	100.000	-12.8
Methoxychlor	7.500	7.430	7.570	217.020	250.000	-13.2

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094621.D **Date Analyzed:** 03/12/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.906	7.810	8.010	20.130	20.000	0.7
Tetrachloro-m-xylene	2.772	2.720	2.820	20.240	20.000	1.2
alpha-BHC	3.274	3.220	3.320	9.640	10.000	-3.6
beta-BHC	3.904	3.850	3.950	10.800	10.000	8.0
gamma-BHC (Lindane)	3.604	3.550	3.650	9.650	10.000	-3.5
Endrin	5.634	5.560	5.700	44.940	50.000	-10.1
4,4'-DDT	6.032	5.960	6.100	96.750	100.000	-3.3
Methoxychlor	6.606	6.540	6.680	223.560	250.000	-10.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094652.D **Date Analyzed:** 03/12/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:24

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.049	8.950	9.150	24.670	20.000	23.4
Tetrachloro-m-xylene	3.537	3.490	3.590	21.440	20.000	7.2
alpha-BHC	3.992	3.940	4.040	11.020	10.000	10.2
beta-BHC	4.523	4.470	4.570	10.970	10.000	9.7
gamma-BHC (Lindane)	4.324	4.270	4.370	11.010	10.000	10.1
Endrin	6.569	6.500	6.640	43.690	50.000	-12.6
4,4'-DDT	7.021	6.950	7.090	91.520	100.000	-8.5
Methoxychlor	7.497	7.430	7.570	225.230	250.000	-9.9

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094652.D **Date Analyzed:** 03/12/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:24

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.903	7.800	8.000	23.060	20.000	15.3
Tetrachloro-m-xylene	2.771	2.720	2.820	21.550	20.000	7.8
alpha-BHC	3.272	3.220	3.320	10.200	10.000	2.0
beta-BHC	3.902	3.850	3.950	11.580	10.000	15.8
gamma-BHC (Lindane)	3.602	3.550	3.650	10.290	10.000	2.9
Endrin	5.631	5.560	5.700	47.470	50.000	-5.1
4,4'-DDT	6.029	5.960	6.100	98.390	100.000	-1.6
Methoxychlor	6.604	6.530	6.670	232.280	250.000	-7.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094667.D **Date Analyzed:** 03/13/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:53

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.055	8.950	9.160	22.170	20.000	10.9
Tetrachloro-m-xylene	3.539	3.490	3.590	18.440	20.000	-7.8
alpha-BHC	3.995	3.940	4.050	9.420	10.000	-5.8
beta-BHC	4.527	4.480	4.580	9.280	10.000	-7.2
gamma-BHC (Lindane)	4.328	4.280	4.380	9.510	10.000	-4.9
Endrin	6.574	6.500	6.640	38.380	50.000	-23.2
4,4'-DDT	7.025	6.950	7.100	89.690	100.000	-10.3
Methoxychlor	7.501	7.430	7.570	227.580	250.000	-9.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094667.D **Date Analyzed:** 03/13/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:53

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.903	7.800	8.000	20.830	20.000	4.2
Tetrachloro-m-xylene	2.768	2.720	2.820	19.200	20.000	-4.0
alpha-BHC	3.270	3.220	3.320	9.170	10.000	-8.3
beta-BHC	3.901	3.850	3.950	10.140	10.000	1.4
gamma-BHC (Lindane)	3.600	3.550	3.650	8.920	10.000	-10.8
Endrin	5.630	5.560	5.700	43.240	50.000	-13.5
4,4'-DDT	6.028	5.960	6.100	101.690	100.000	1.7
Methoxychlor	6.604	6.530	6.670	241.920	250.000	-3.2

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

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	03/12/2025	08:51	PL094621.D	9.05	3.54
I.BLK	I.BLK	03/12/2025	15:35	PL094639.D	9.06	3.54
PSTDCCC050	PSTDCCC050	03/12/2025	15:49	PL094640.D	9.05	3.54
ENV-101-SB01	Q1488-02	03/12/2025	18:15	PL094647.D	9.05	3.54
ENV-101-SB01MS	Q1488-02MS	03/12/2025	18:29	PL094648.D	9.05	3.54
ENV-101-SB01MSD	Q1488-02MSD	03/12/2025	18:42	PL094649.D	9.05	3.54
ENV-101-SB02	Q1488-04	03/12/2025	18:56	PL094650.D	9.05	3.54
I.BLK	I.BLK	03/12/2025	19:10	PL094651.D	9.05	3.54
PEM	PEM	03/12/2025	19:24	PL094652.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/12/2025	19:38	PL094653.D	9.05	3.54
ENV-102-SB01	Q1488-06	03/12/2025	20:05	PL094654.D	9.05	3.54
ENV-102-SB02	Q1488-08	03/12/2025	20:19	PL094655.D	9.05	3.54
ENV-104-SB01	Q1488-10	03/12/2025	20:33	PL094656.D	9.05	3.54
ENV-104-SB02	Q1488-12	03/12/2025	20:46	PL094657.D	9.05	3.54
I.BLK	I.BLK	03/12/2025	22:09	PL094663.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/12/2025	22:22	PL094664.D	9.05	3.54
PEM	PEM	03/13/2025	11:53	PL094667.D	9.06	3.54
I.BLK	I.BLK	03/13/2025	15:12	PL094676.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/13/2025	15:25	PL094677.D	9.05	3.54
PB167091BL	PB167091BL	03/13/2025	16:34	PL094682.D	9.05	3.54
PB167091BS	PB167091BS	03/13/2025	17:20	PL094683.D	9.05	3.54
PB167020TB	PB167020TB	03/13/2025	17:33	PL094684.D	9.05	3.54
I.BLK	I.BLK	03/13/2025	19:51	PL094694.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/13/2025	20:04	PL094695.D	9.05	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

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	03/12/2025	08:51	PL094621.D	7.91	2.77
I.BLK	I.BLK	03/12/2025	15:35	PL094639.D	7.91	2.77
PSTDCCC050	PSTDCCC050	03/12/2025	15:49	PL094640.D	7.90	2.77
ENV-101-SB01	Q1488-02	03/12/2025	18:15	PL094647.D	7.90	2.77
ENV-101-SB01MS	Q1488-02MS	03/12/2025	18:29	PL094648.D	7.90	2.77
ENV-101-SB01MSD	Q1488-02MSD	03/12/2025	18:42	PL094649.D	7.90	2.77
ENV-101-SB02	Q1488-04	03/12/2025	18:56	PL094650.D	7.90	2.77
I.BLK	I.BLK	03/12/2025	19:10	PL094651.D	7.90	2.77
PEM	PEM	03/12/2025	19:24	PL094652.D	7.90	2.77
PSTDCCC050	PSTDCCC050	03/12/2025	19:38	PL094653.D	7.90	2.77
ENV-102-SB01	Q1488-06	03/12/2025	20:05	PL094654.D	7.90	2.77
ENV-102-SB02	Q1488-08	03/12/2025	20:19	PL094655.D	7.90	2.77
ENV-104-SB01	Q1488-10	03/12/2025	20:33	PL094656.D	7.90	2.77
ENV-104-SB02	Q1488-12	03/12/2025	20:46	PL094657.D	7.90	2.77
I.BLK	I.BLK	03/12/2025	22:09	PL094663.D	7.90	2.77
PSTDCCC050	PSTDCCC050	03/12/2025	22:22	PL094664.D	7.90	2.77
PEM	PEM	03/13/2025	11:53	PL094667.D	7.90	2.77
I.BLK	I.BLK	03/13/2025	15:12	PL094676.D	7.90	2.77
PSTDCCC050	PSTDCCC050	03/13/2025	15:25	PL094677.D	7.90	2.77
PB167091BL	PB167091BL	03/13/2025	16:34	PL094682.D	7.90	2.77
PB167091BS	PB167091BS	03/13/2025	17:20	PL094683.D	7.90	2.77
PB167020TB	PB167020TB	03/13/2025	17:33	PL094684.D	7.90	2.77
I.BLK	I.BLK	03/13/2025	19:51	PL094694.D	7.90	2.77
PSTDCCC050	PSTDCCC050	03/13/2025	20:04	PL094695.D	7.90	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
ENV-101-SB01MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Lab Sample ID: Q1488-02MS **Date(s) Analyzed:** 03/12/2025 03/12/2025

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	5.70	1.8
	2	6.60	6.55	6.65	5.60	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	7.40	11.4
	2	3.60	3.55	3.65	6.60	
Heptachlor	1	4.91	4.86	4.96	5.20	3.8
	2	3.94	3.89	3.99	5.40	
Heptachlor epoxide	1	5.68	5.63	5.73	5.30	5.5
	2	4.72	4.67	4.77	5.60	
Endrin	1	6.57	6.52	6.62	5.20	10.9
	2	5.63	5.58	5.68	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
ENV-101-SB01MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Lab Sample ID: Q1488-02MSD **Date(s) Analyzed:** 03/12/2025 03/12/2025

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	5.60	0
	2	6.60	6.55	6.65	5.60	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	7.30	8.6
	2	3.60	3.55	3.65	6.70	
Heptachlor	1	4.91	4.86	4.96	5.10	5.7
	2	3.94	3.89	3.99	5.40	
Heptachlor epoxide	1	5.68	5.63	5.73	5.20	7.4
	2	4.72	4.67	4.77	5.60	
Endrin	1	6.57	6.52	6.62	5.20	10.9
	2	5.63	5.58	5.68	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB167091BS

Contract: PORT06
Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488
Lab Sample ID: PB167091BS **Date(s) Analyzed:** 03/13/2025 03/13/2025
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	0.53	3.2
	2	6.60	6.55	6.65	0.51	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.43	9
	2	3.60	3.55	3.65	0.48	
Heptachlor	1	4.91	4.86	4.96	0.43	9.8
	2	3.94	3.89	3.99	0.47	
Heptachlor epoxide	1	5.68	5.63	5.73	0.44	8.2
	2	4.72	4.67	4.77	0.48	
Endrin	1	6.57	6.52	6.62	0.45	7.9
	2	5.63	5.58	5.68	0.49	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094684.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 17:33
Operator : AR\AJ
Sample : PB167020TB
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167020TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:53 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...	3.535	2.769	48409580	62834662	17.102	17.604
28)	SA Decachlor...	9.049	7.903	45646313	72402933	21.659	17.924
	Target Compounds						

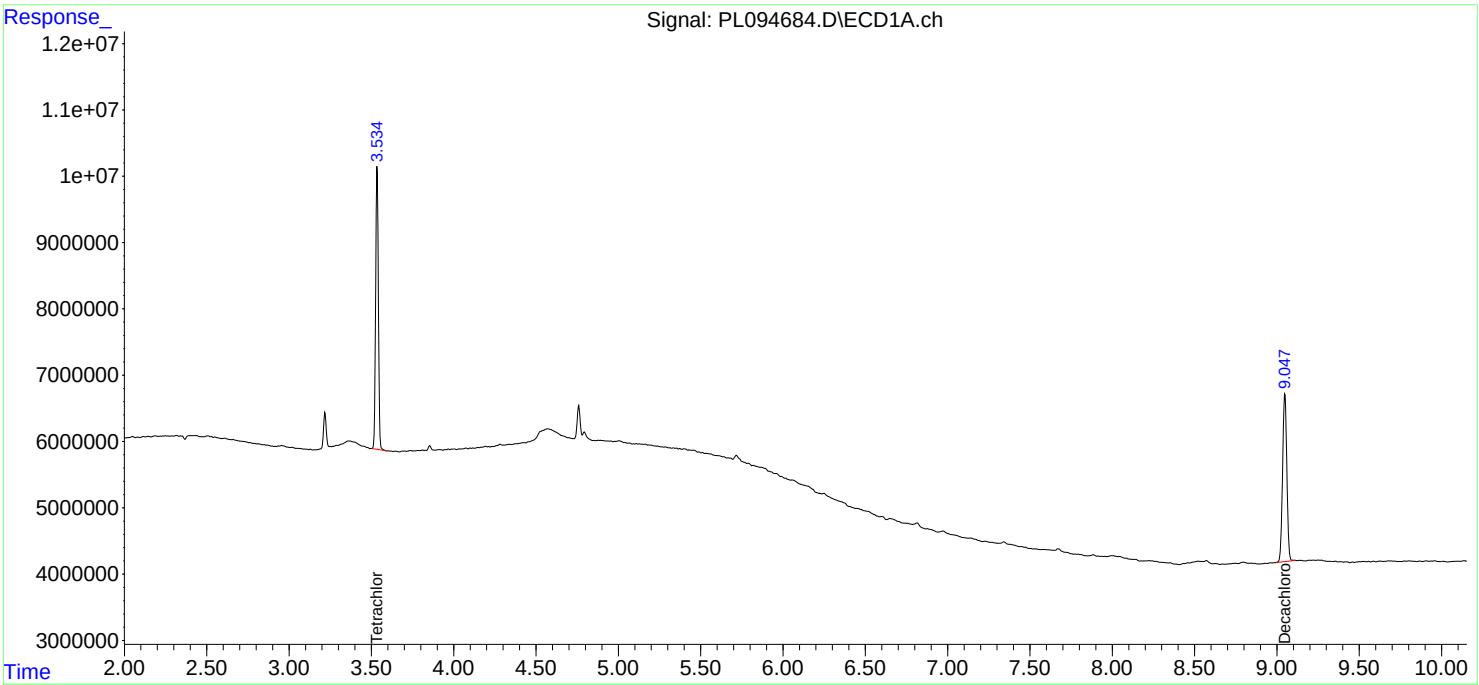
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

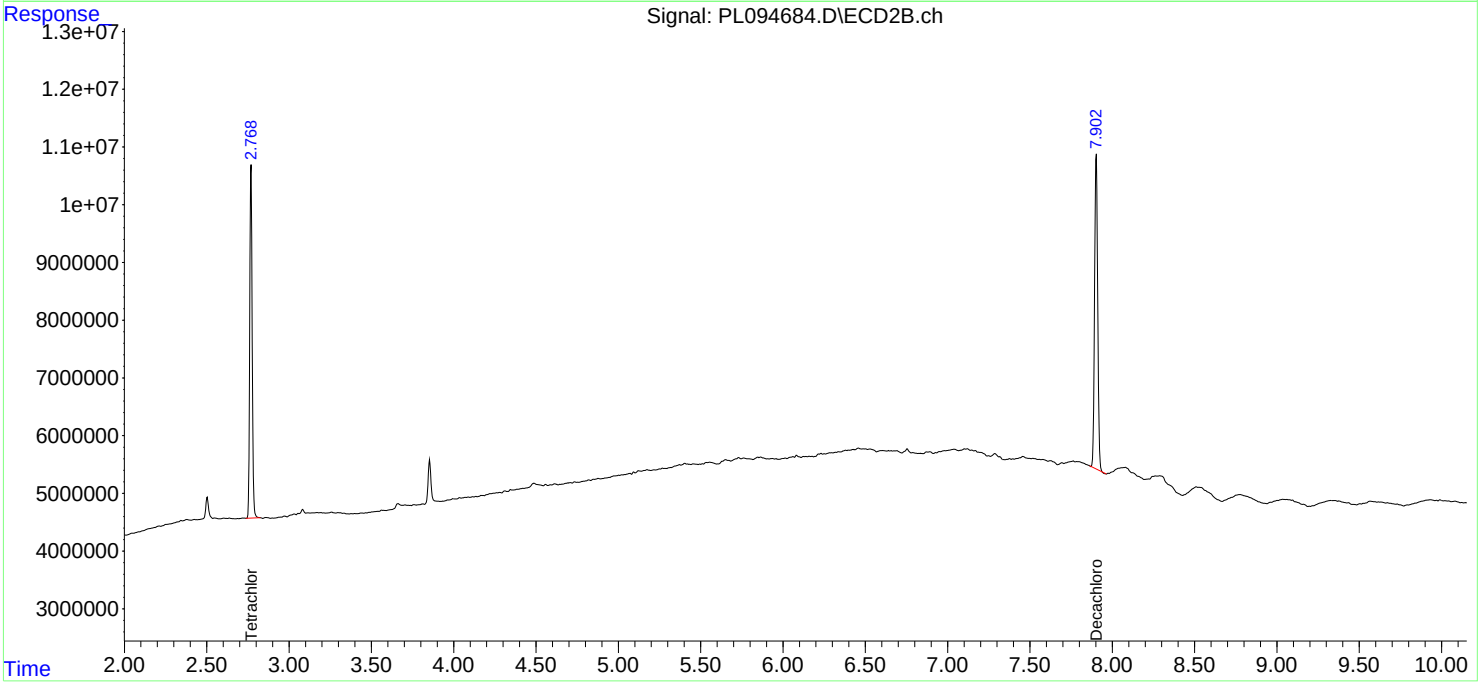
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094684.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 17:33
Operator : AR\AJ
Sample : PB167020TB
Misc :
ALS Vial : 18 Sample Multiplier: 1

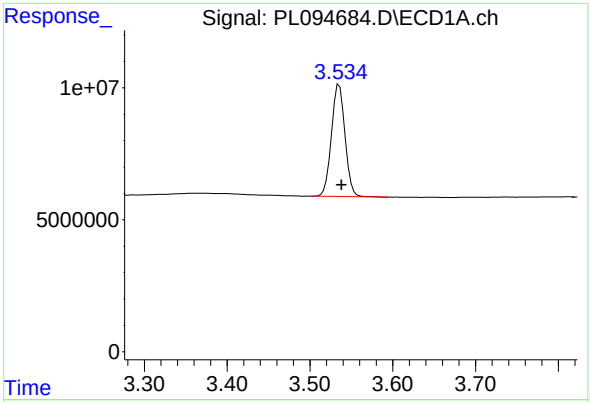
Instrument :
ECD_L
ClientSampleId :
PB167020TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:53 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



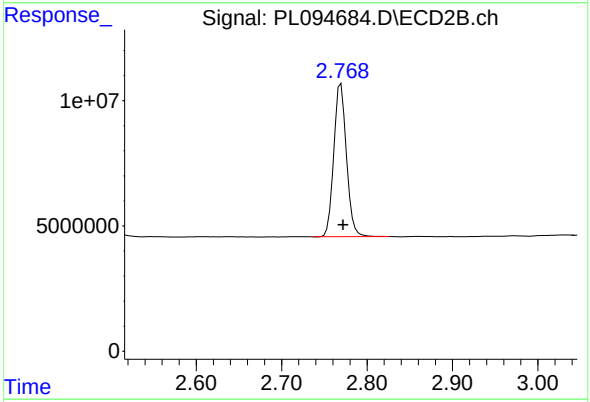




#1 Tetrachloro-m-xylene

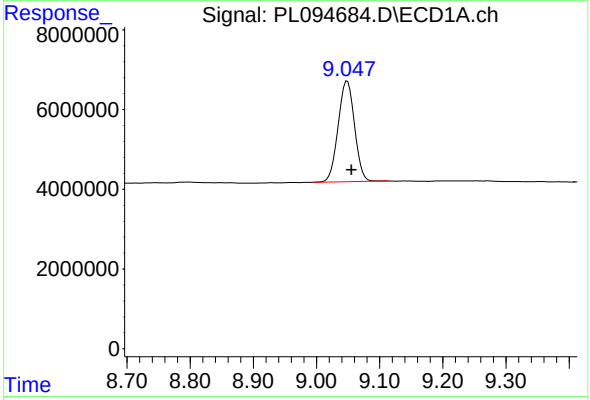
R.T.: 3.535 min
Delta R.T.: -0.003 min
Response: 48409580
Conc: 17.10 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167020TB



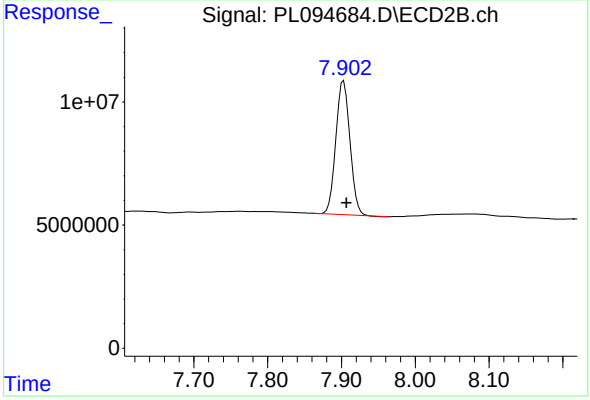
#1 Tetrachloro-m-xylene

R.T.: 2.769 min
Delta R.T.: -0.002 min
Response: 62834662
Conc: 17.60 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: -0.007 min
Response: 45646313
Conc: 21.66 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.903 min
Delta R.T.: -0.004 min
Response: 72402933
Conc: 17.92 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094647.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:15
Operator : AR\AJ
Sample : Q1488-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:35:38 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...	3.538	2.773	55750056	75065082	19.695	21.031
28)	SA Decachlor...	9.051	7.904	52822617	96076530	25.065	23.785
	Target Compounds						

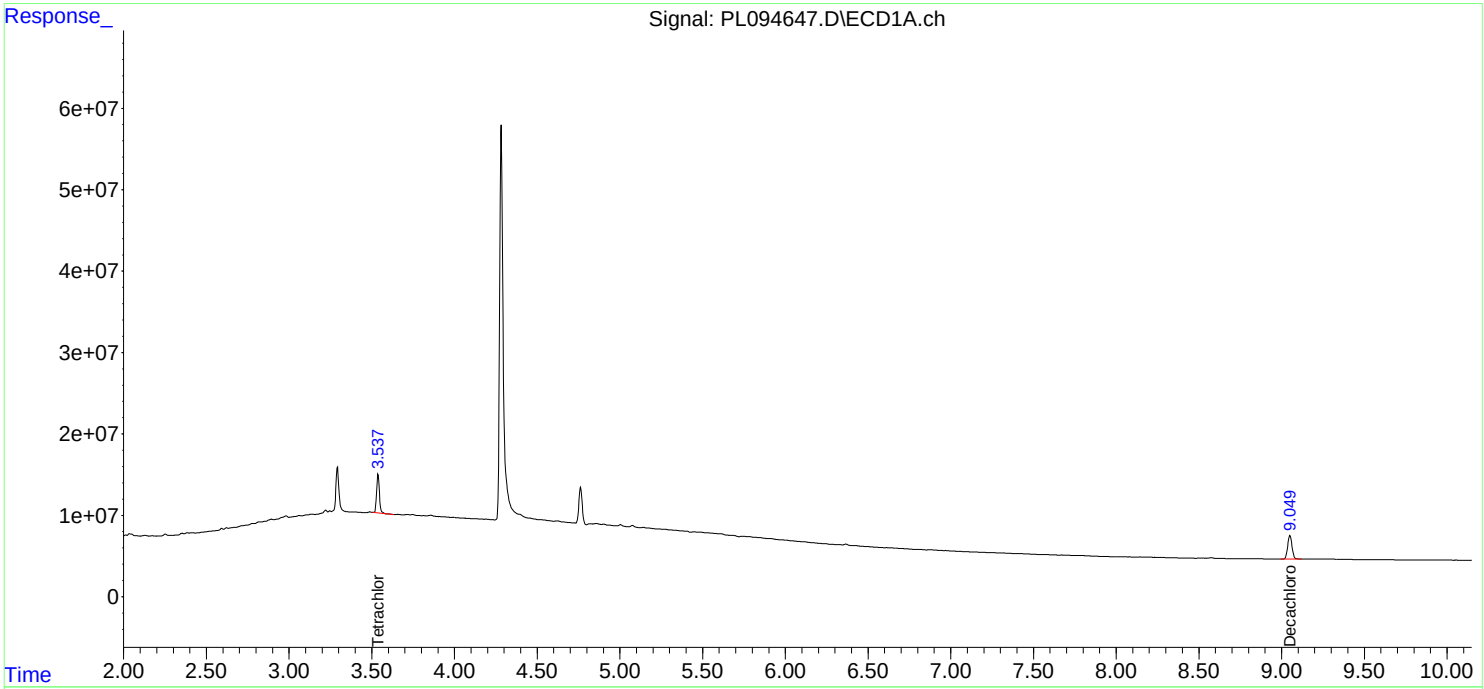
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

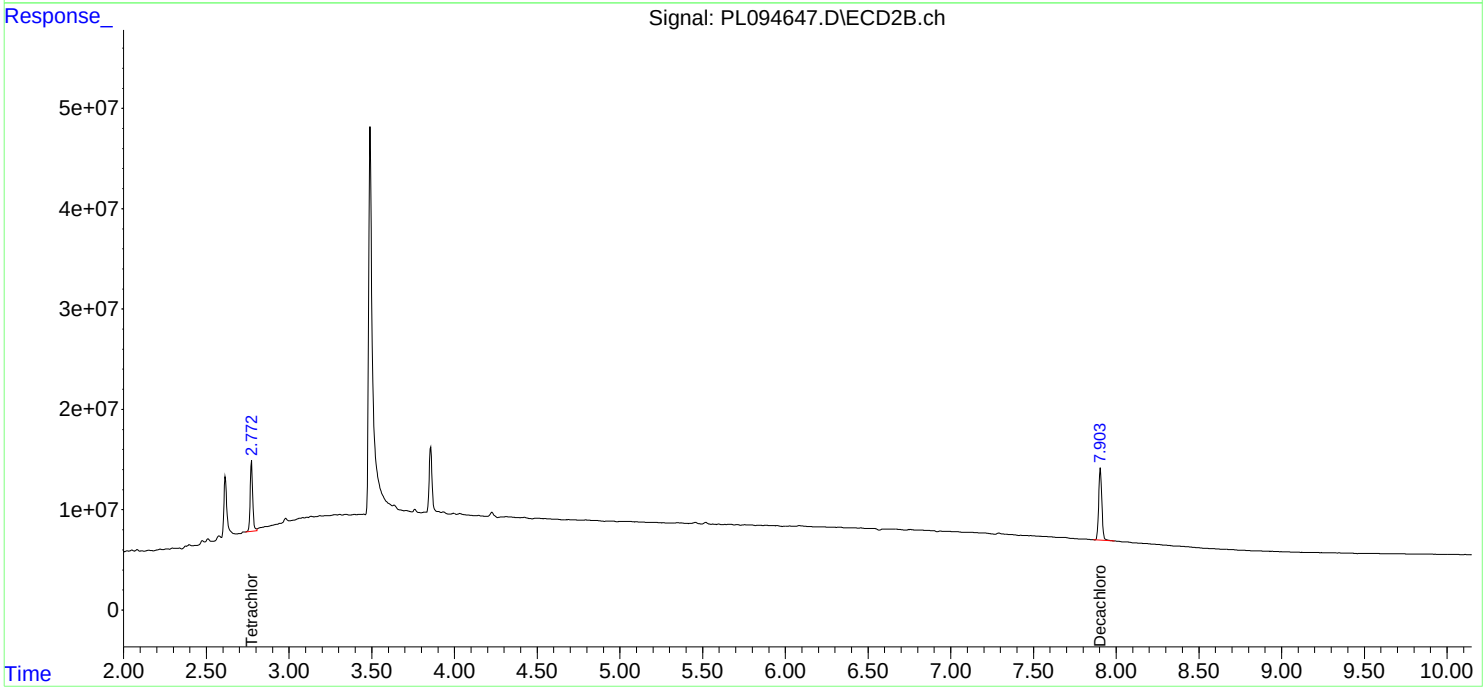
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094647.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:15
Operator : AR\AJ
Sample : Q1488-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

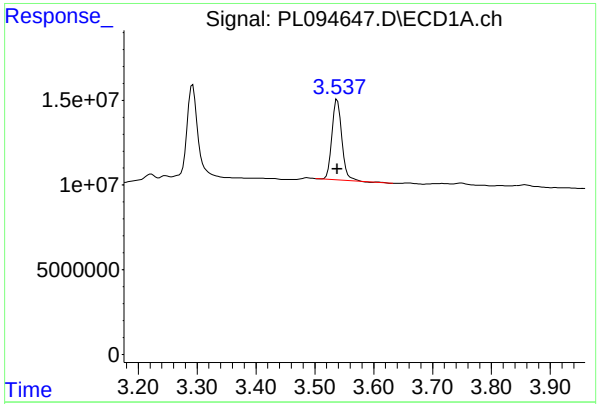
Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:35:38 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



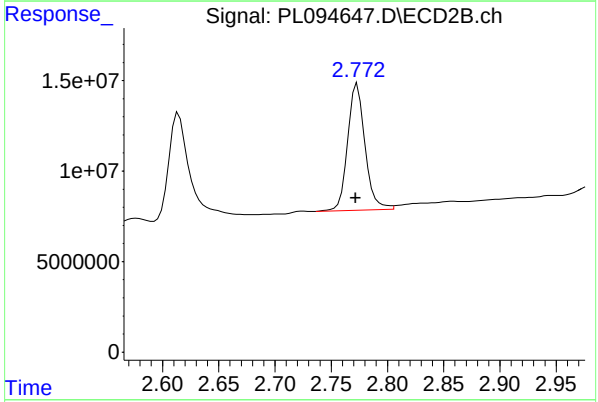




#1 Tetrachloro-m-xylene

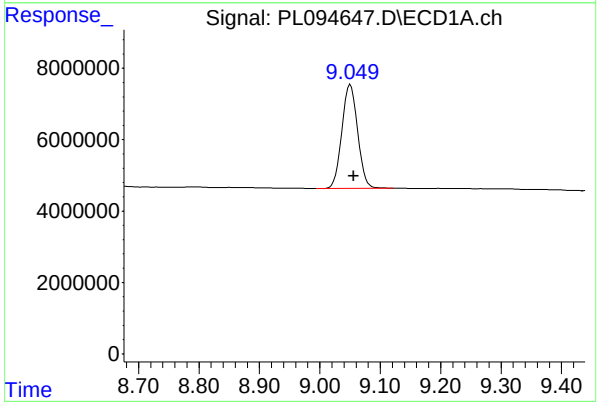
R.T.: 3.538 min
Delta R.T.: 0.000 min
Response: 55750056
Conc: 19.70 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01



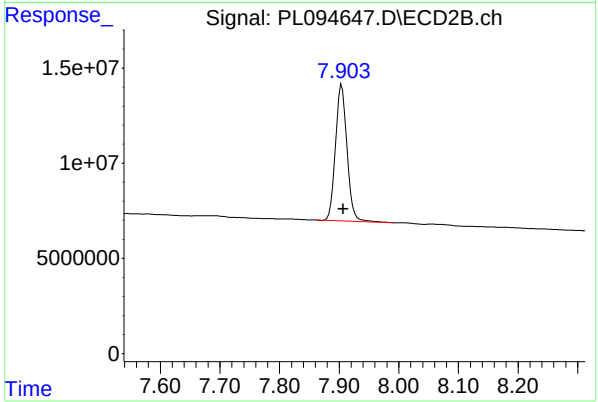
#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: 0.001 min
Response: 75065082
Conc: 21.03 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.051 min
Delta R.T.: -0.005 min
Response: 52822617
Conc: 25.06 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: -0.002 min
Response: 96076530
Conc: 23.79 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:56
Operator : AR\AJ
Sample : Q1488-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:36:19 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...	3.536	2.772	55947590	78108985	19.765m	21.884
28)	SA Decachlor...	9.049	7.904	48990509	97282904	23.246m	24.084
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

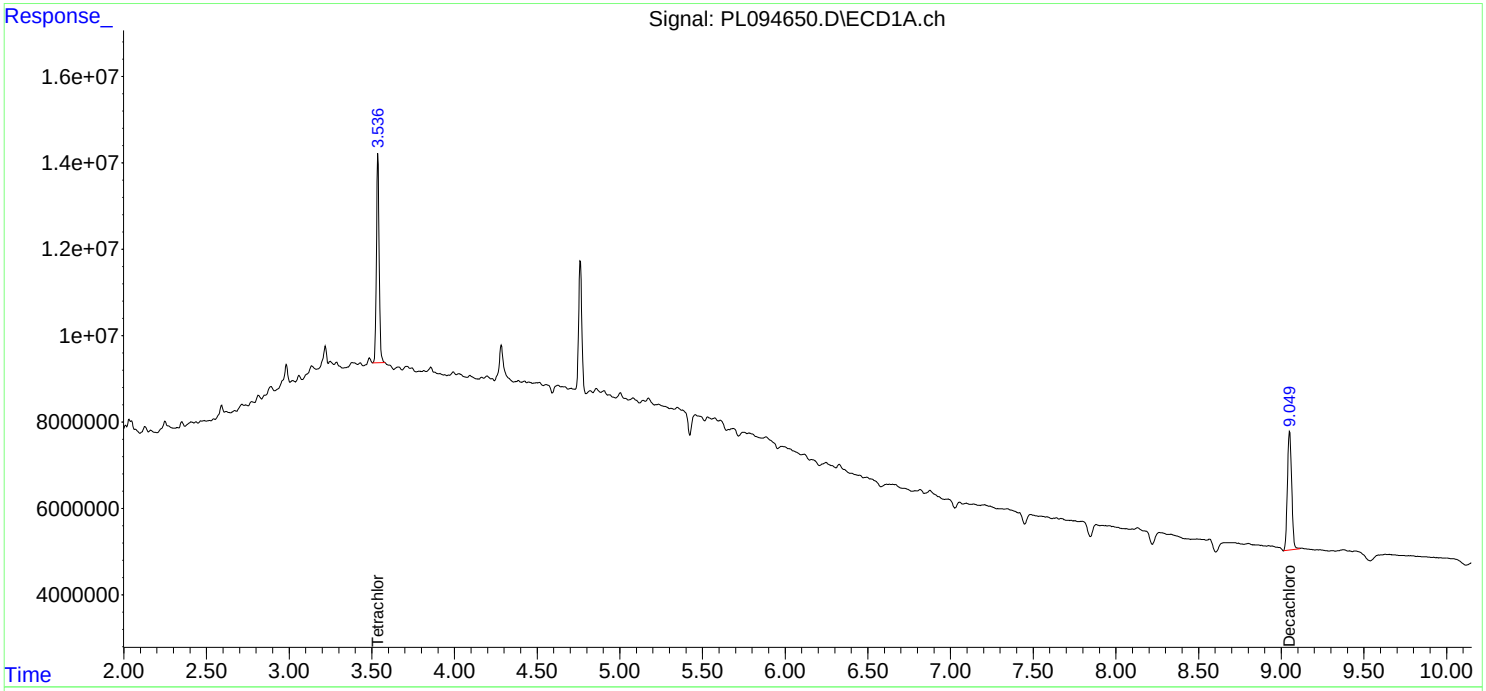
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:56
Operator : AR\AJ
Sample : Q1488-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

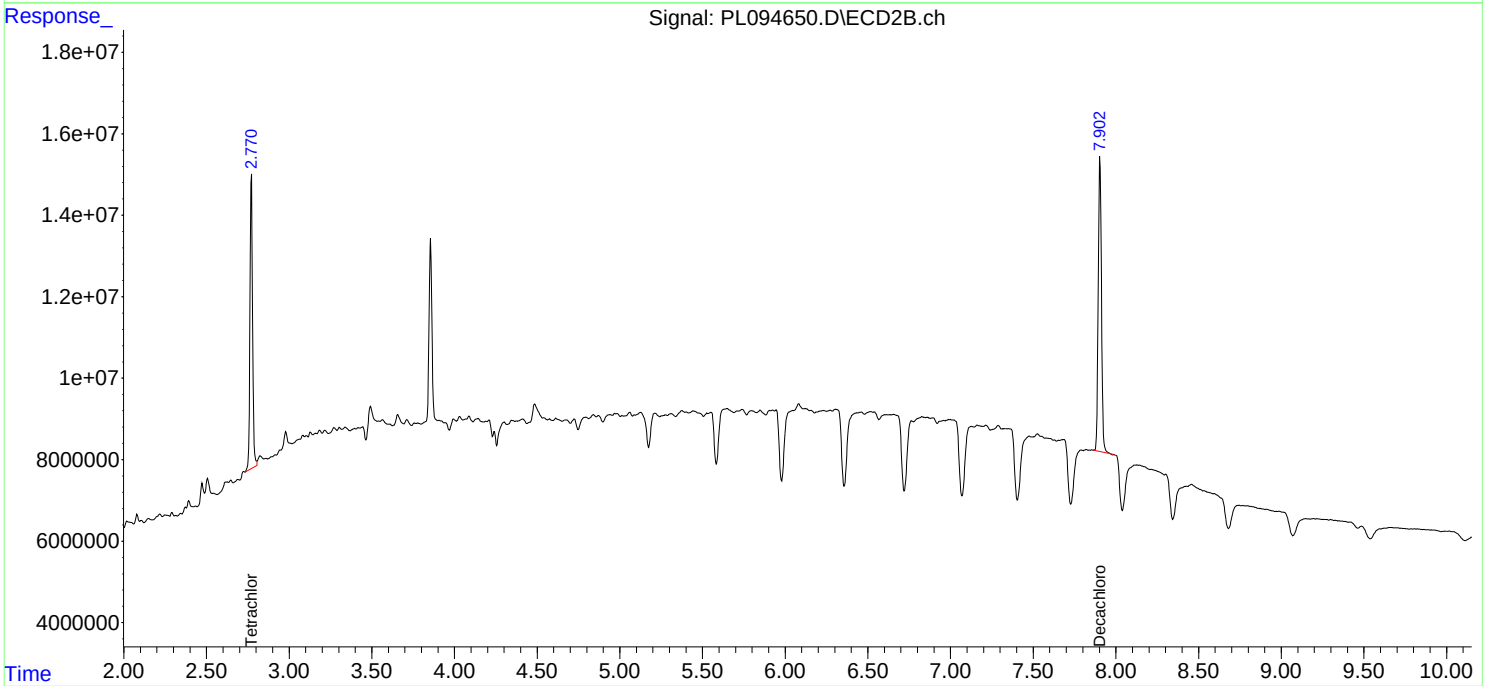
Instrument :
ECD_L
ClientSampleId :
ENV-101-SB02

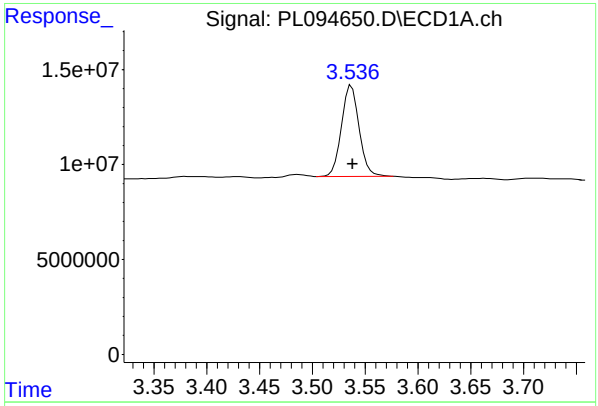
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:36:19 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







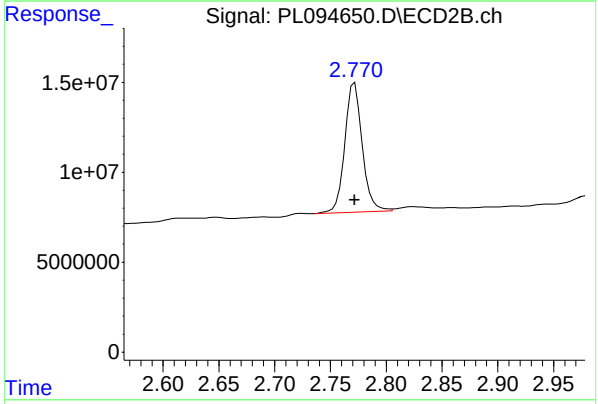
#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: -0.002 mi
Response: 55947590
Conc: 19.76 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB02

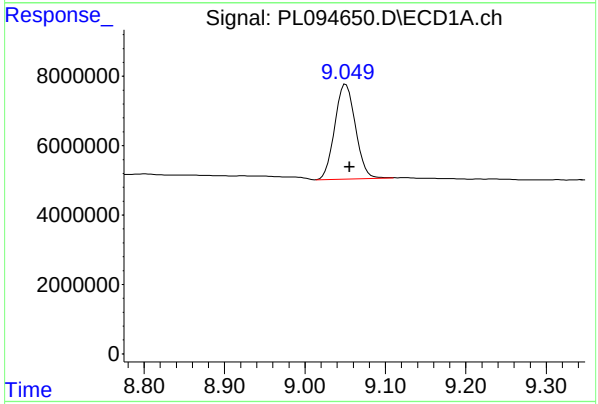
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



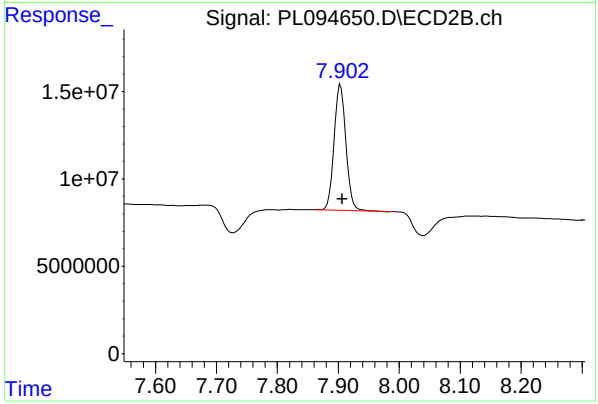
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.000 min
Response: 78108985
Conc: 21.88 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: -0.006 min
Response: 48990509
Conc: 23.25 ng/ml m



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: -0.003 min
Response: 97282904
Conc: 24.08 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:05
Operator : AR\AJ
Sample : Q1488-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-102-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:24 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...	3.535	2.770	62589210	76747942	22.111m	21.502m
28)	SA Decachlor...	9.049	7.903	60144523	109.4E6	28.539	27.080
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

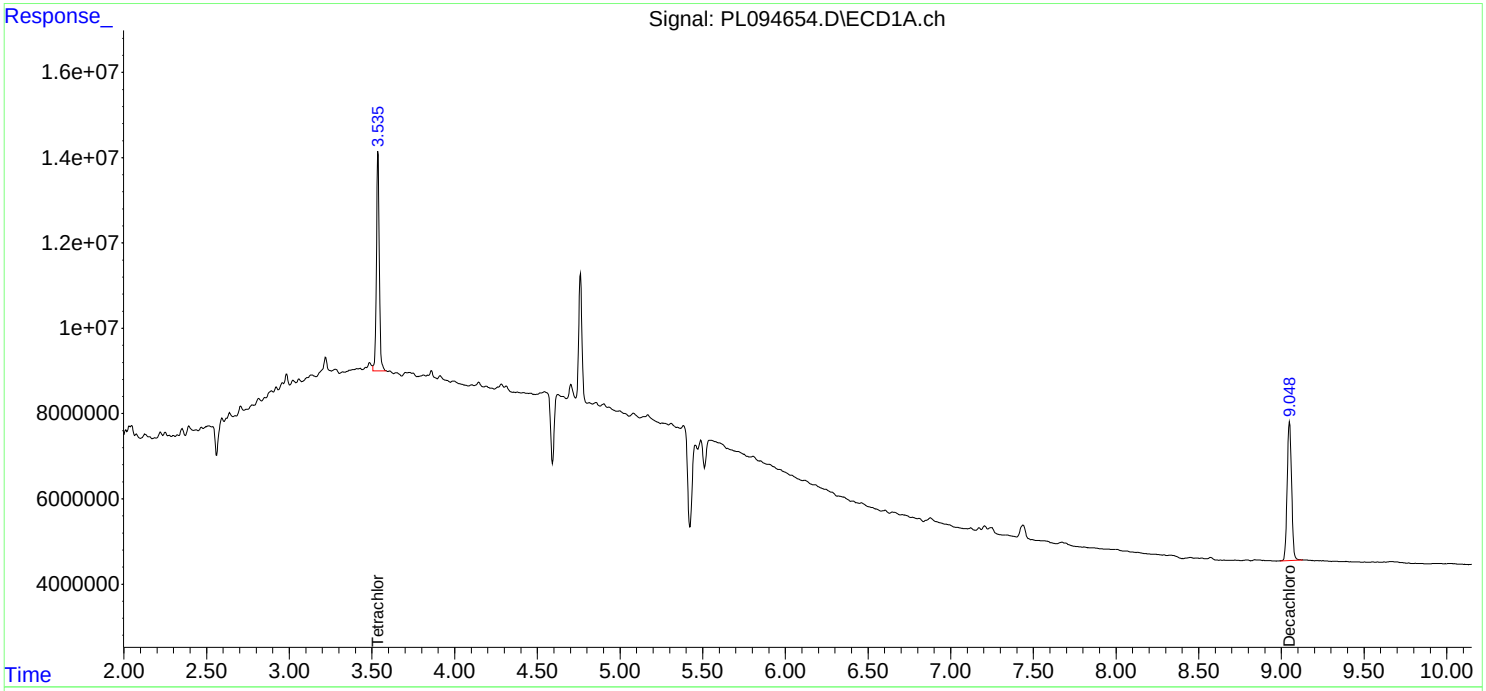
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:05
Operator : AR\AJ
Sample : Q1488-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

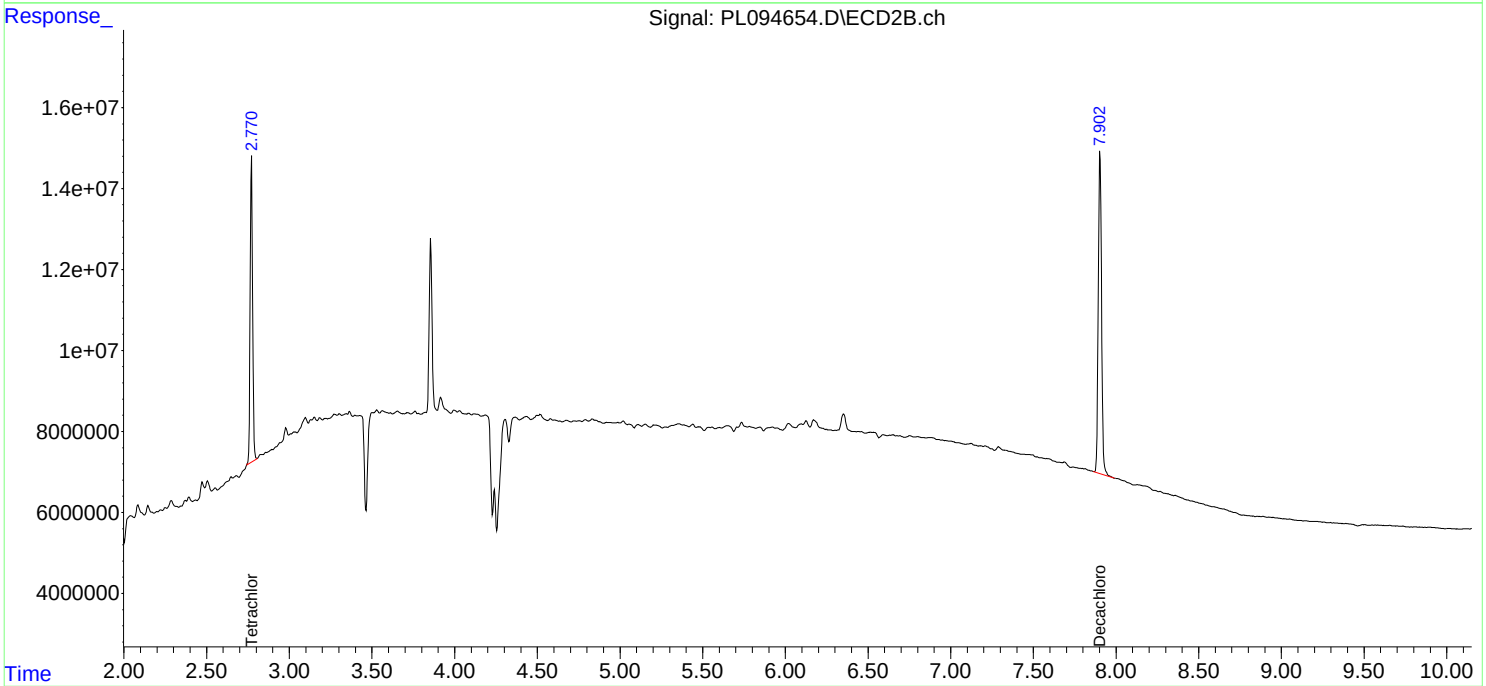
Instrument :
ECD_L
ClientSampleId :
ENV-102-SB01

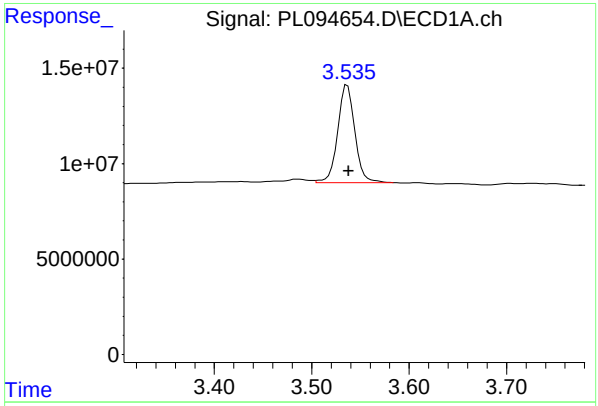
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:24 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







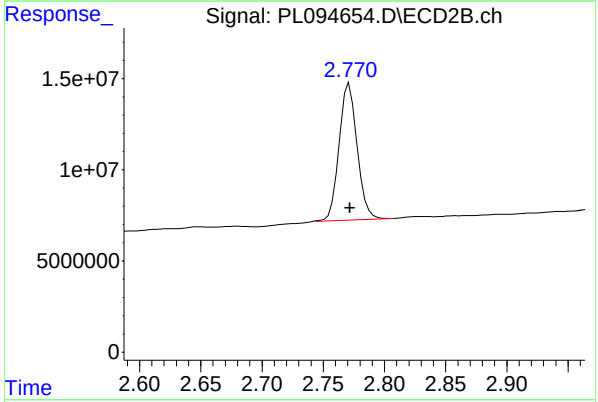
#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: -0.003 min
Response: 62589210
Conc: 22.11 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-102-SB01

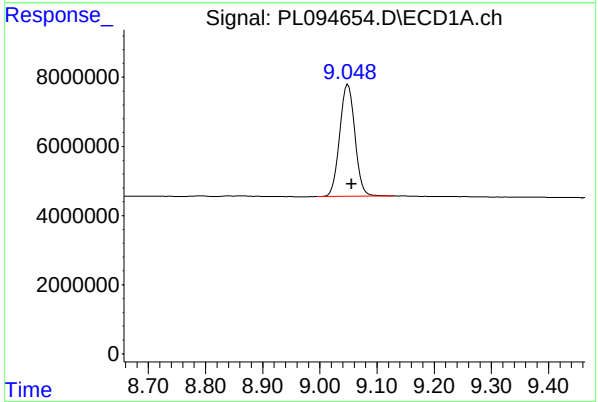
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



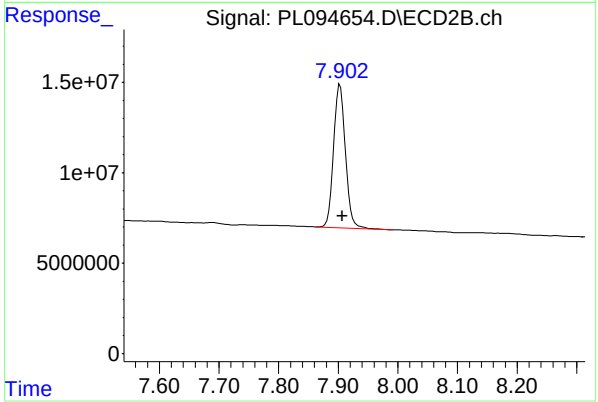
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: -0.002 min
Response: 76747942
Conc: 21.50 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: -0.007 min
Response: 60144523
Conc: 28.54 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.903 min
Delta R.T.: -0.004 min
Response: 109385009
Conc: 27.08 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094655.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:19
Operator : AR\AJ
Sample : Q1488-08
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-102-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:34 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...	3.535	2.770	58232832	73110721	20.572m	20.483m
28)	SA Decachlor...	9.051	7.903	57358736	104.7E6	27.217	25.932
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

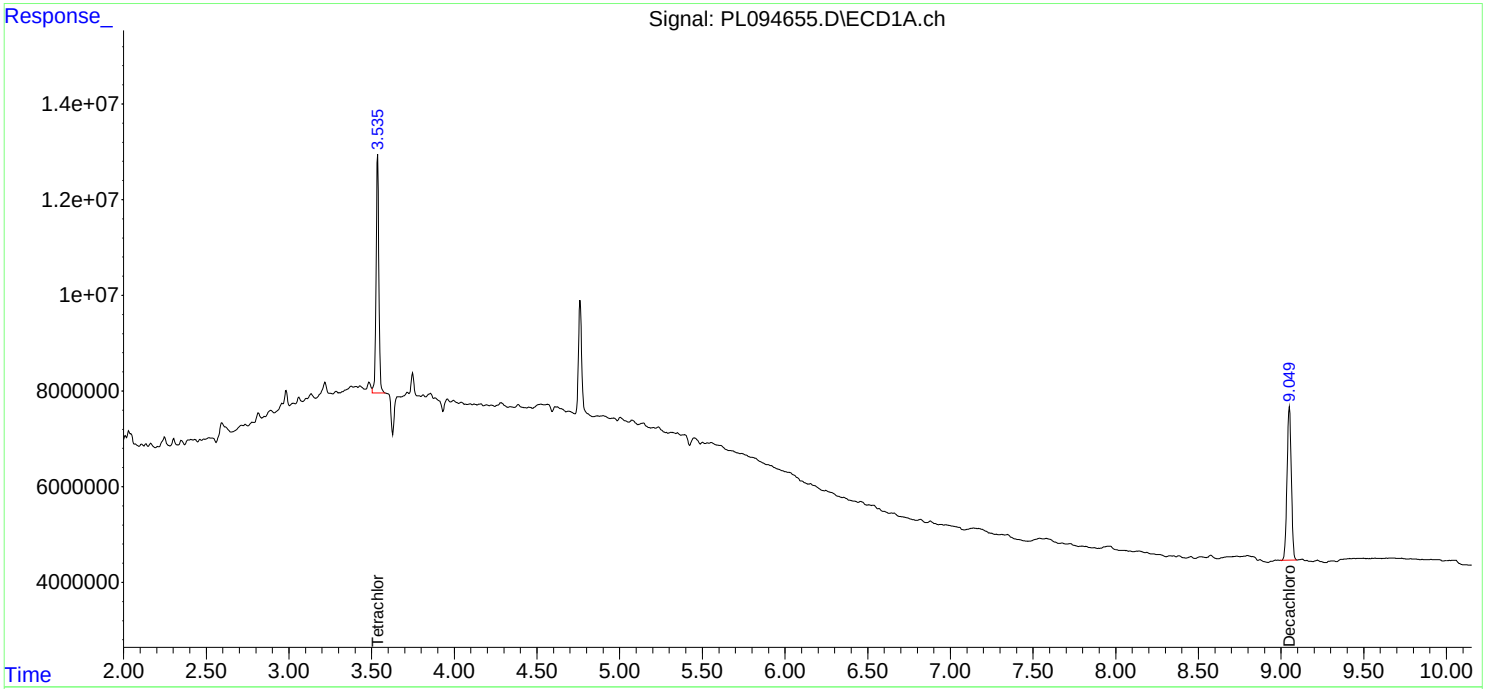
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094655.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:19
Operator : AR\AJ
Sample : Q1488-08
Misc :
ALS Vial : 28 Sample Multiplier: 1

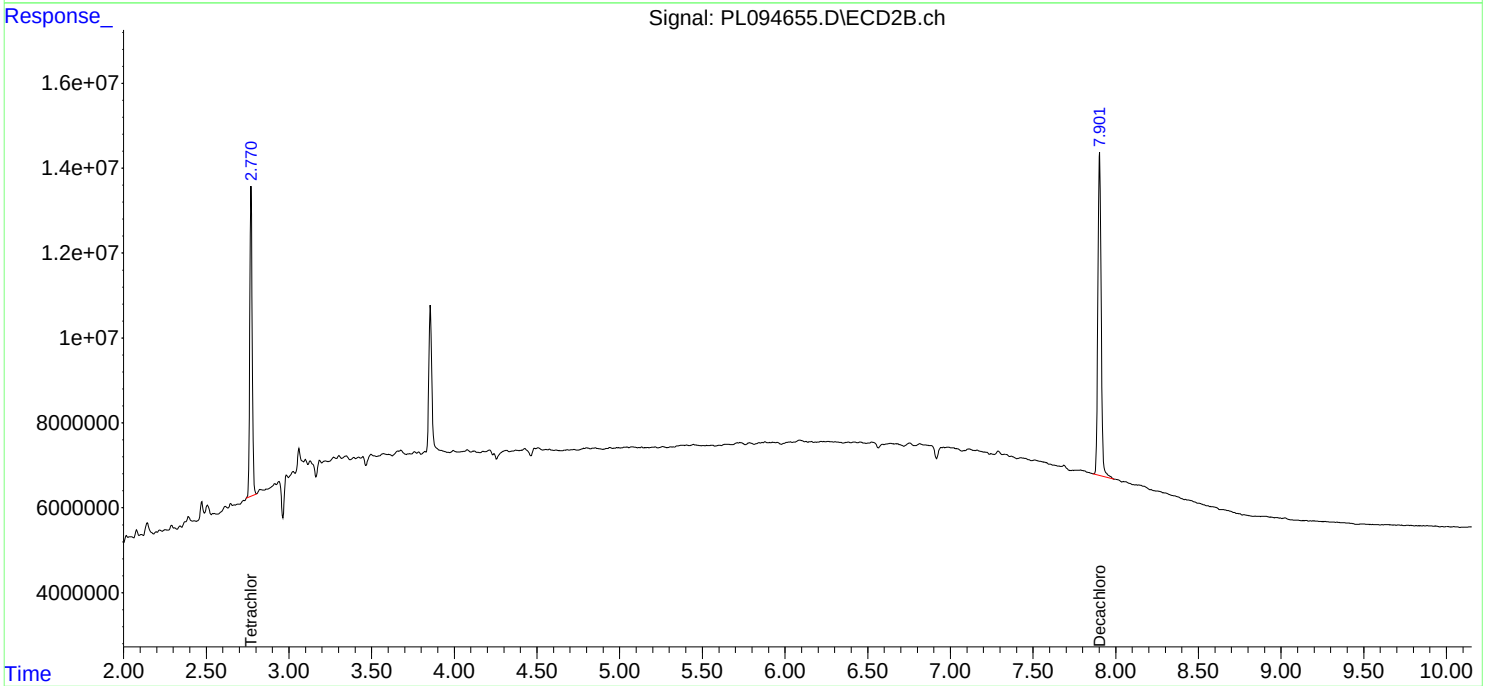
Instrument :
ECD_L
ClientSampleId :
ENV-102-SB02

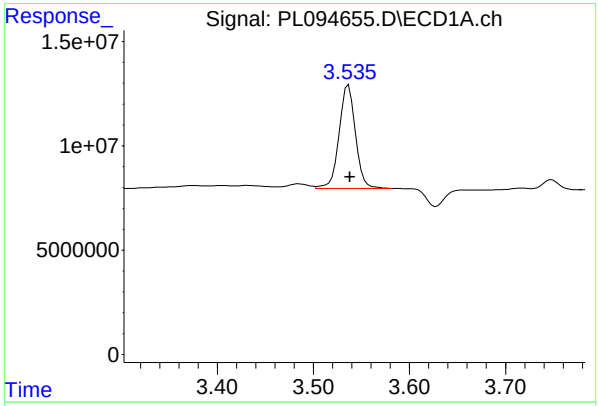
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:34 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







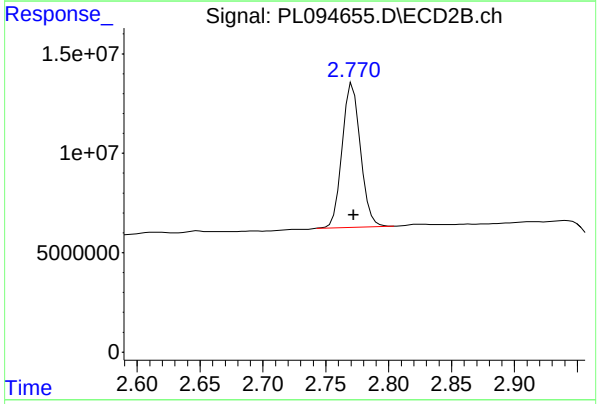
#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: -0.003 min
Response: 58232832
Conc: 20.57 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-102-SB02

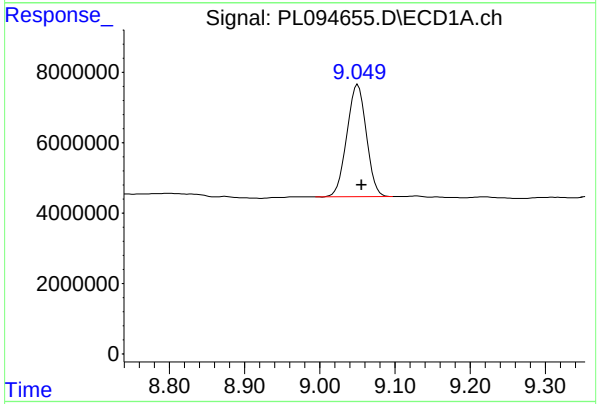
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



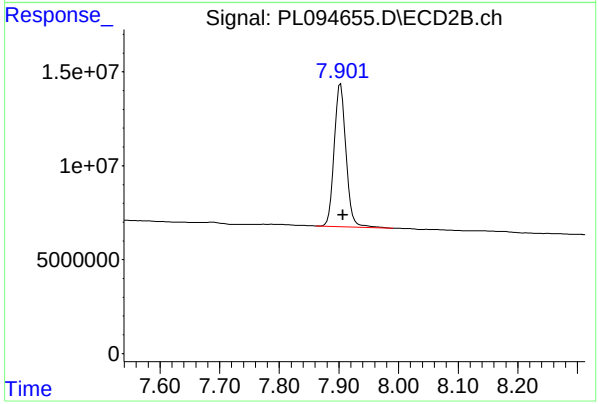
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: -0.002 min
Response: 73110721
Conc: 20.48 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.051 min
Delta R.T.: -0.005 min
Response: 57358736
Conc: 27.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.903 min
Delta R.T.: -0.004 min
Response: 104747203
Conc: 25.93 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:33
Operator : AR\AJ
Sample : Q1488-10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-104-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:46 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...	3.536	2.772	56187831	73043546	19.850m	20.465
28)	SA Decachlor...	9.050	7.904	55088475	101.0E6	26.140	24.999
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

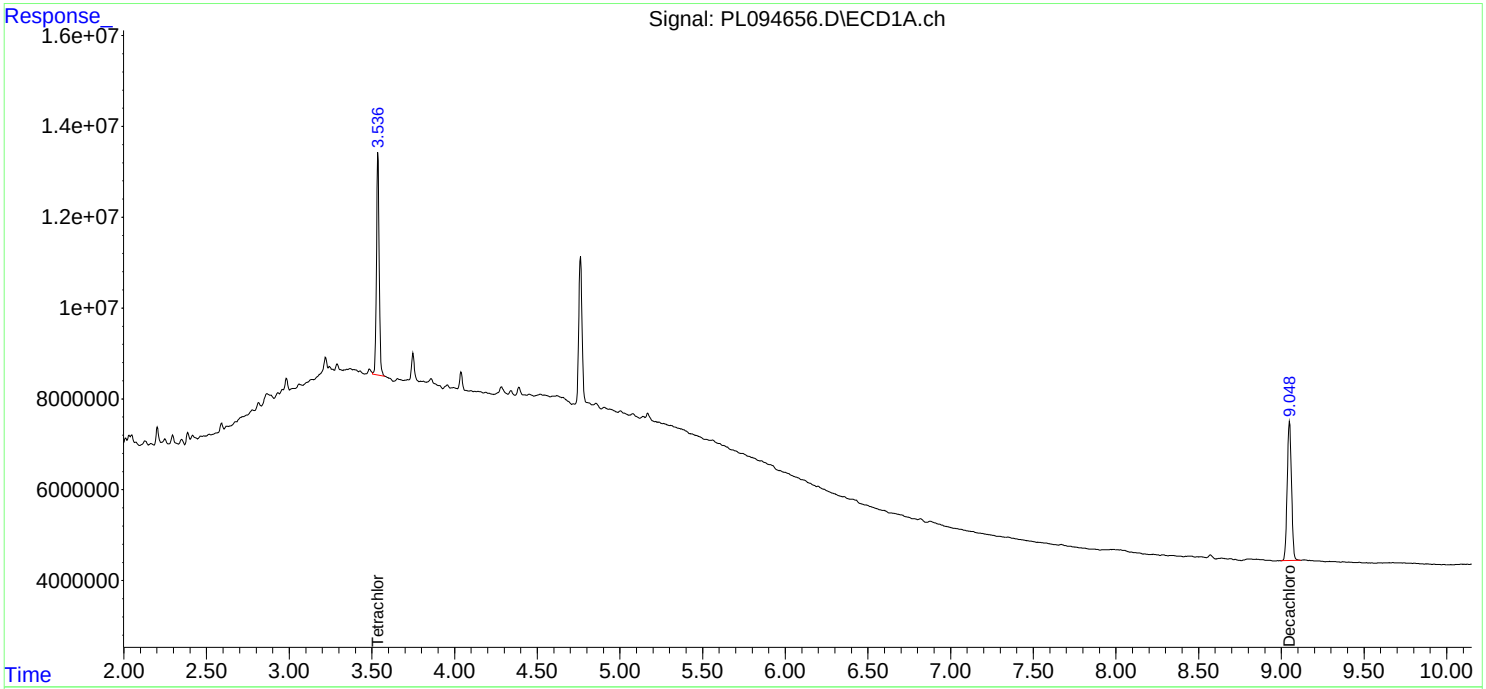
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:33
Operator : AR\AJ
Sample : Q1488-10
Misc :
ALS Vial : 29 Sample Multiplier: 1

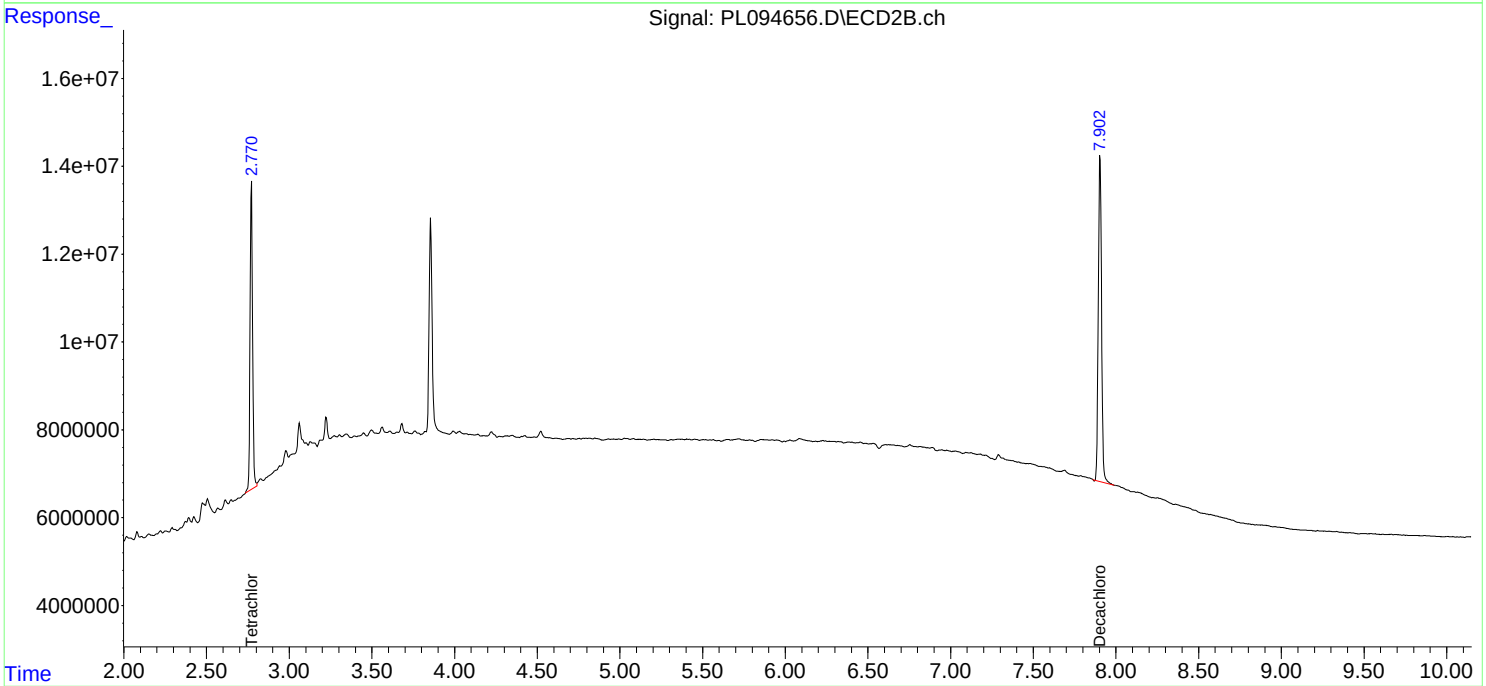
Instrument :
ECD_L
ClientSampleId :
ENV-104-SB01

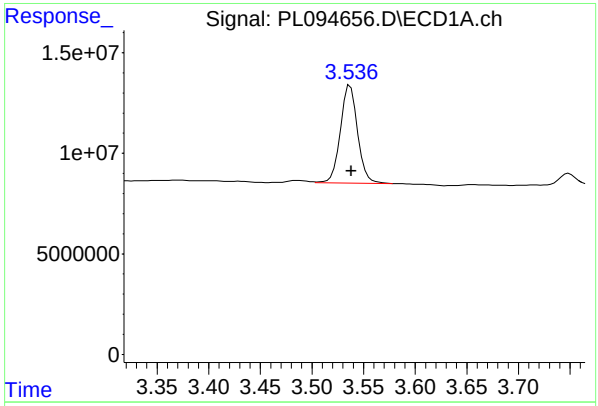
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:46 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







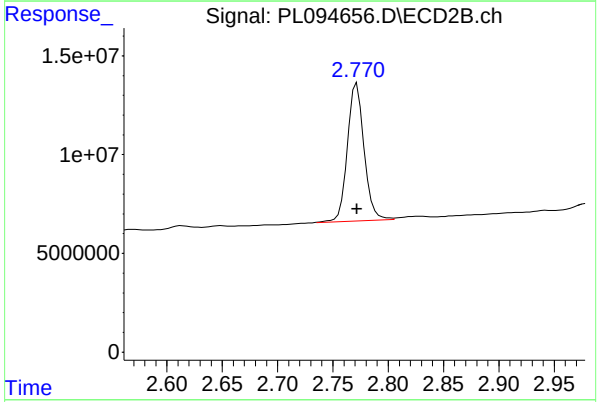
#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: -0.002 min
Response: 56187831
Conc: 19.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-104-SB01

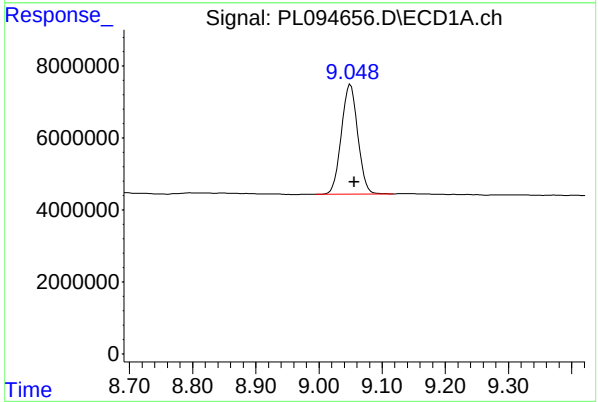
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



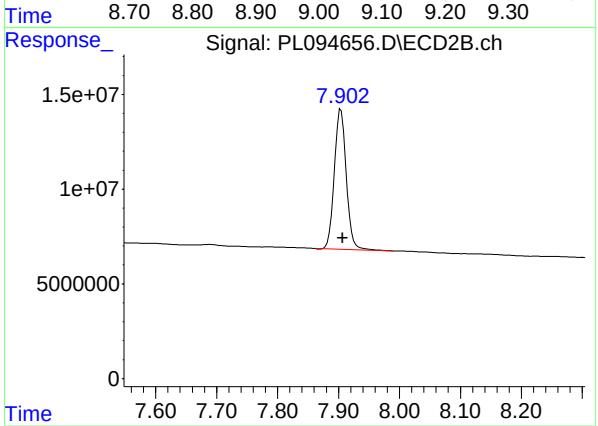
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.000 min
Response: 73043546
Conc: 20.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.050 min
Delta R.T.: -0.006 min
Response: 55088475
Conc: 26.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: -0.003 min
Response: 100979211
Conc: 25.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:46
Operator : AR\AJ
Sample : Q1488-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:56 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...	3.537	2.771	57781003	75893023	20.412	21.263
28)	SA Decachlor...	9.049	7.903	57866231	107.0E6	27.458	26.501
	Target Compounds						

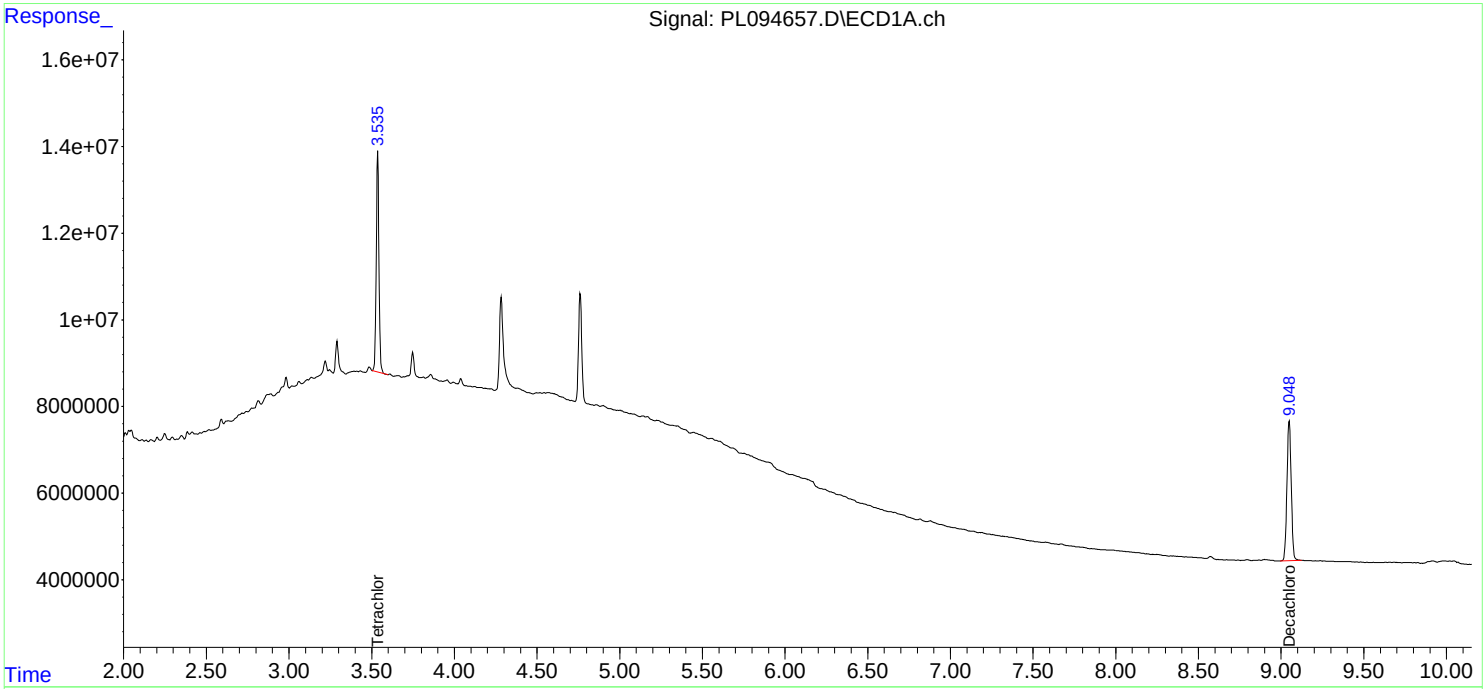
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

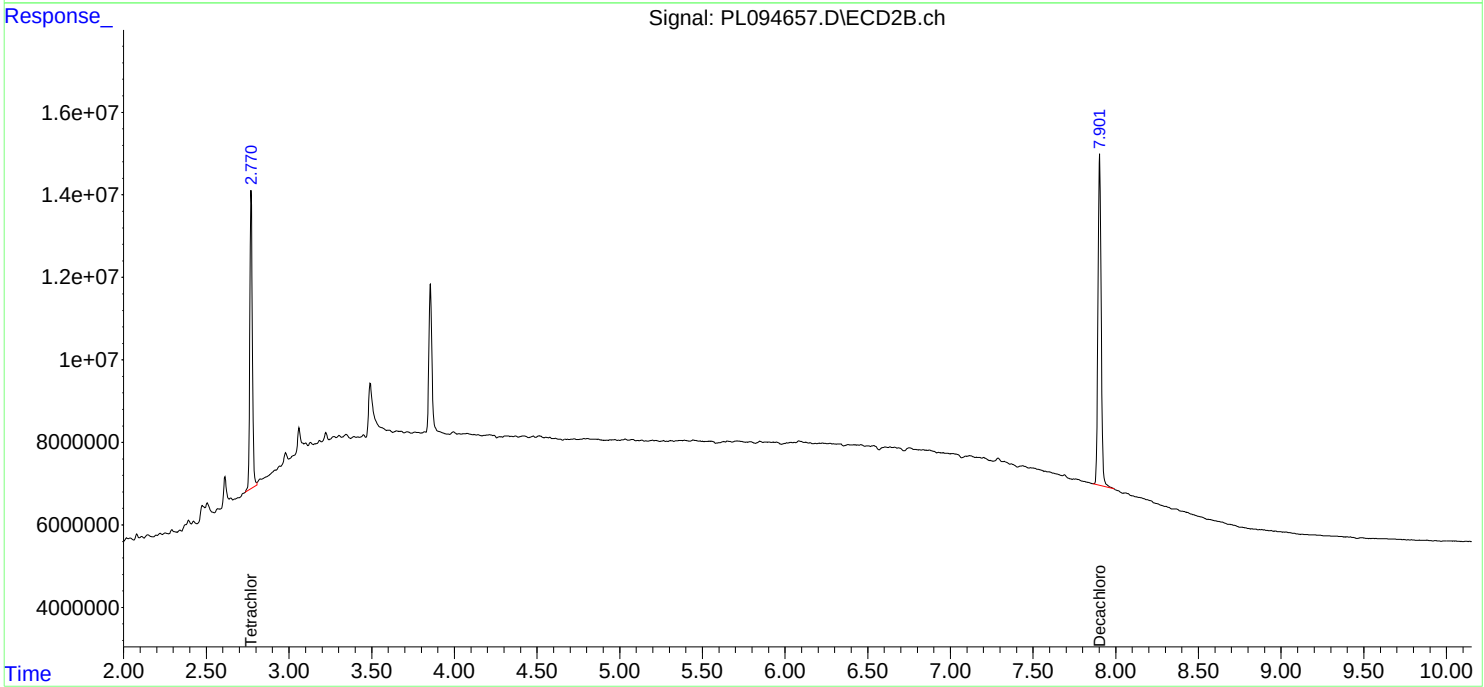
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 20:46
Operator : AR\AJ
Sample : Q1488-12
Misc :
ALS Vial : 30 Sample Multiplier: 1

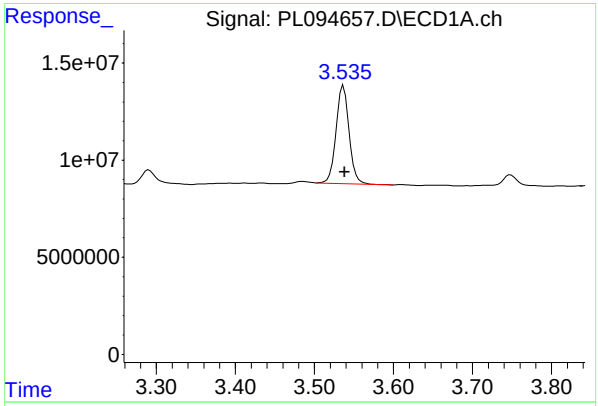
Instrument :
ECD_L
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:37:56 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



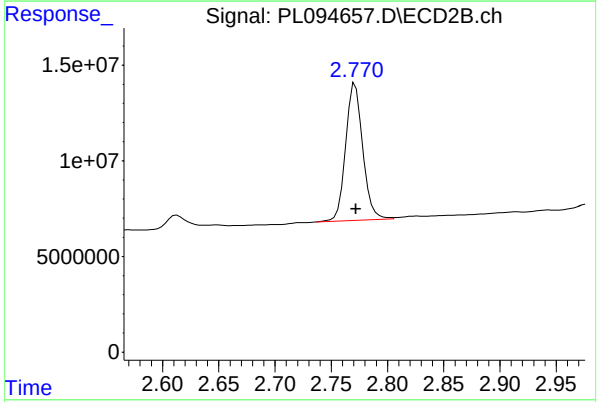




#1 Tetrachloro-m-xylene

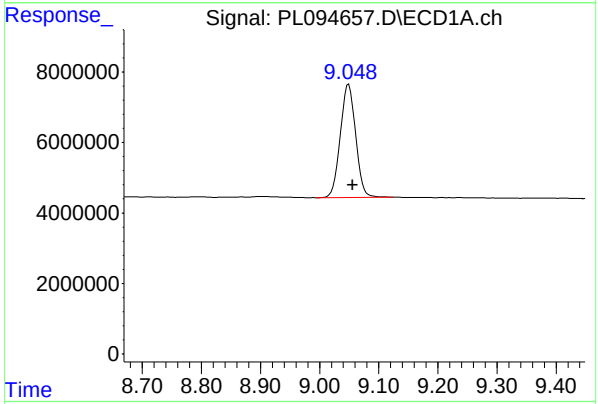
R.T.: 3.537 min
Delta R.T.: -0.001 min
Response: 57781003
Conc: 20.41 ng/ml

Instrument :
ECD_L
ClientSampleId :
ENV-104-SB02



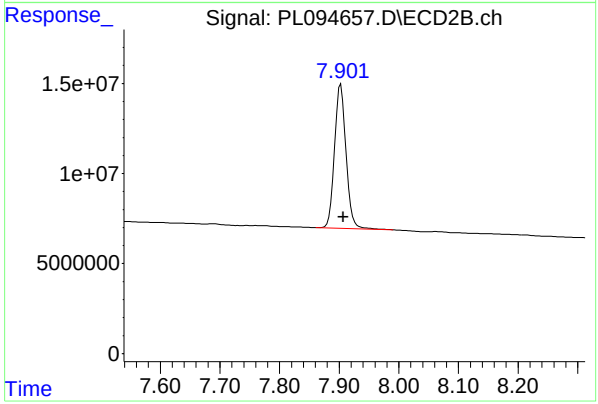
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 75893023
Conc: 21.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: -0.006 min
Response: 57866231
Conc: 27.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.903 min
Delta R.T.: -0.004 min
Response: 107046993
Conc: 26.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094682.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 16:34
Operator : AR\AJ
Sample : PB167091BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167091BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:08 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...	3.535	2.770	60028992	78141153	21.207	21.893
28)	SA Decachlor...	9.049	7.902	54392054	85796575	25.809	21.240
	Target Compounds						

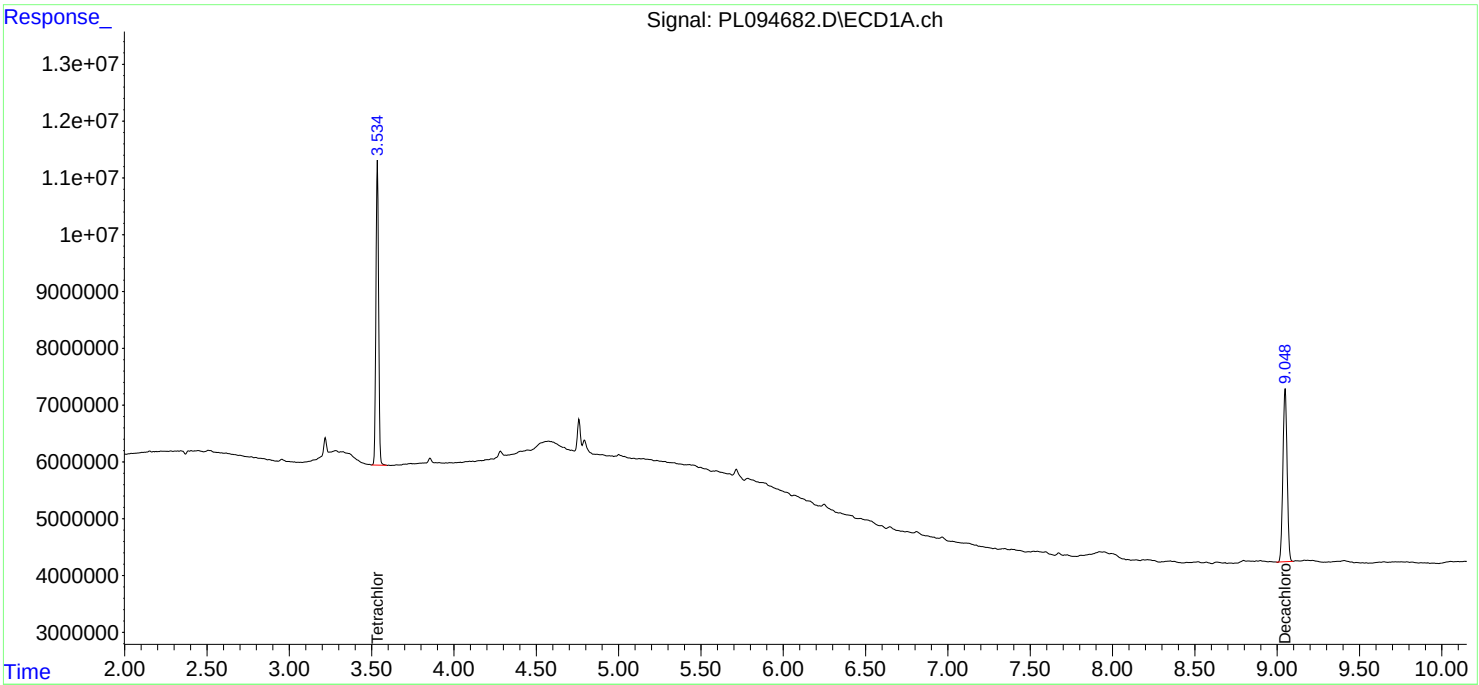
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

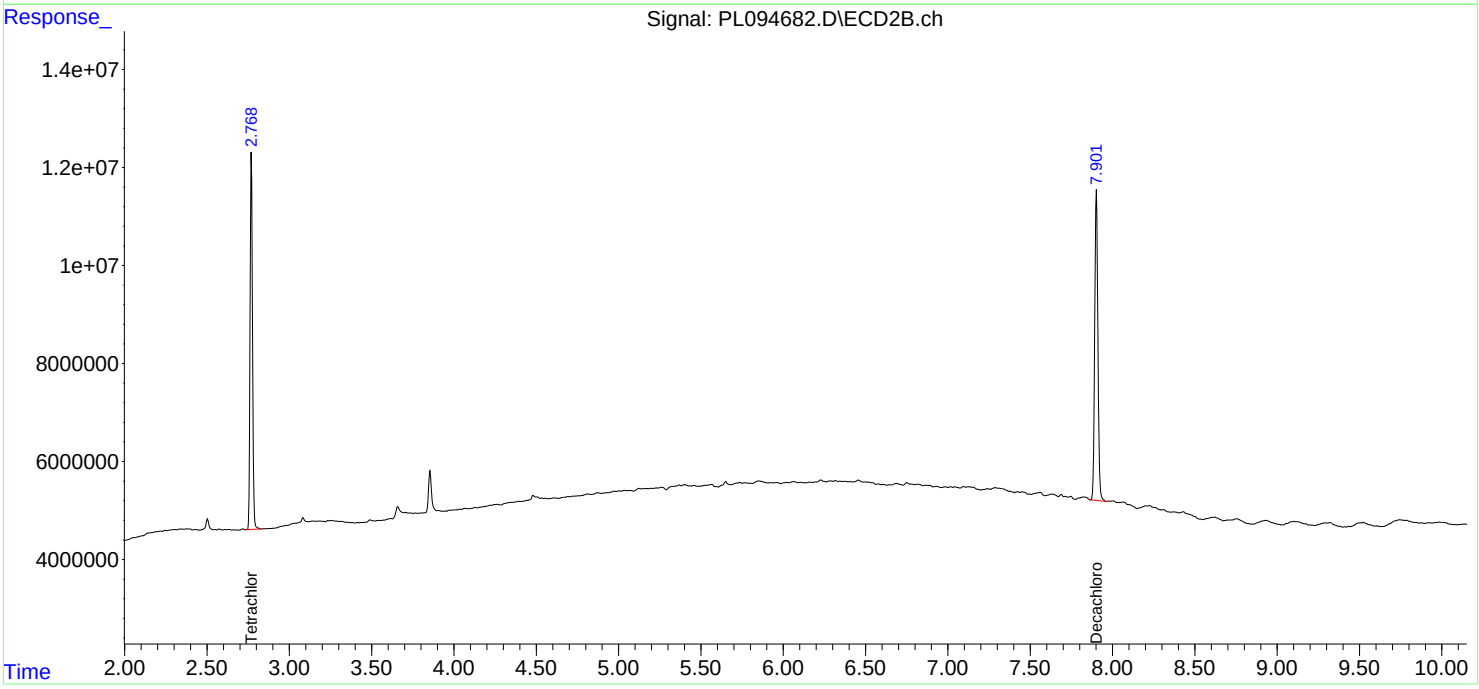
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094682.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 16:34
Operator : AR\AJ
Sample : PB167091BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

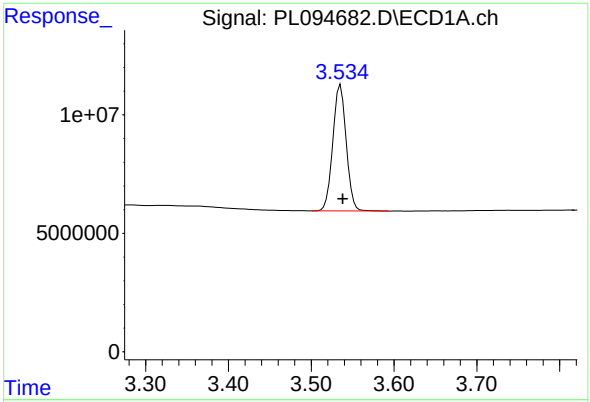
Instrument :
ECD_L
ClientSampleId :
PB167091BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:08 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



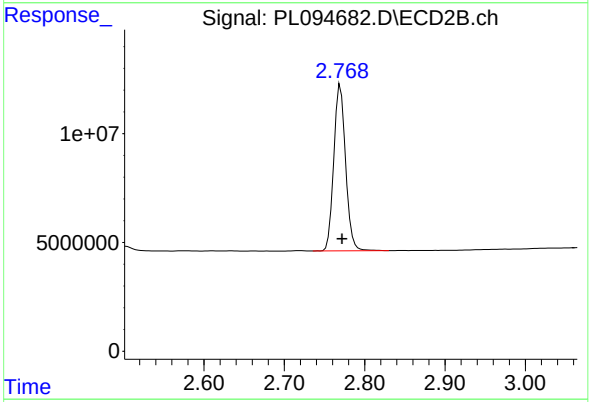




#1 Tetrachloro-m-xylene

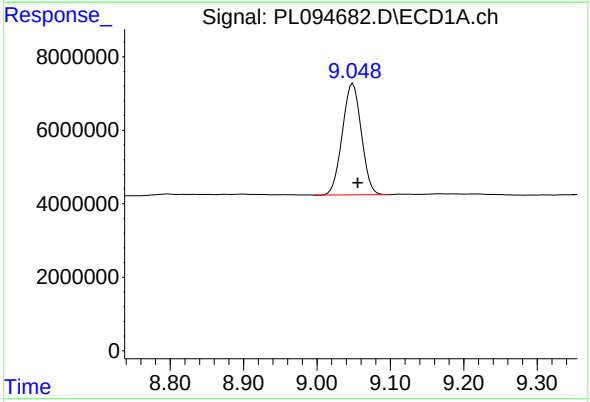
R.T.: 3.535 min
Delta R.T.: -0.003 min
Response: 60028992
Conc: 21.21 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167091BL



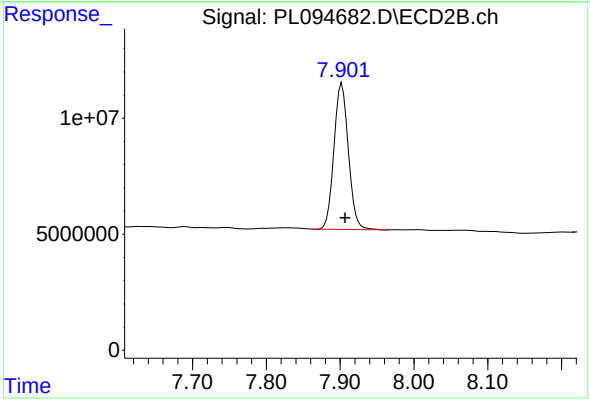
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: -0.002 min
Response: 78141153
Conc: 21.89 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: -0.007 min
Response: 54392054
Conc: 25.81 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.902 min
Delta R.T.: -0.004 min
Response: 85796575
Conc: 21.24 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094683.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 17:20
Operator : AR\AJ
Sample : PB167091BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167091BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/14/2025
Supervised By :mohammad ahmed 03/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:23 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...	3.537	2.769	54396223	74071628	19.217	20.753
28)	SA Decachlor...	9.051	7.903	51398003	80936186	24.389	20.037
	Target Compounds						
2)	A alpha-BHC	3.994	3.271	180.3E6	259.4E6	43.420	48.117
3)	MA gamma-BHC...	4.326	3.601	173.5E6	244.4E6	43.481	47.558
4)	MA Heptachlor	4.914	3.939	166.9E6	249.9E6	43.004	47.423
5)	MB Aldrin	5.255	4.218	159.0E6	231.6E6	43.073	47.498
6)	B beta-BHC	4.525	3.901	78708436	108.8E6	42.655	48.997
7)	B delta-BHC	4.772	4.130	179.7E6	245.7E6	46.133	49.128
8)	B Heptachlo...	5.682	4.721	148.7E6	221.0E6	44.447	48.270
9)	A Endosulfan I	6.067	5.090	137.2E6	210.7E6	44.680	48.015
10)	B gamma-Chl...	5.938	4.971	149.5E6	233.1E6	44.360	48.283
11)	B alpha-Chl...	6.017	5.034	146.7E6	229.3E6	44.483	48.047
12)	B 4,4'-DDE	6.191	5.221	142.5E6	233.9E6	48.434	50.325m
13)	MA Dieldrin	6.342	5.354	144.7E6	236.6E6	45.247	48.757
14)	MA Endrin	6.572	5.630	125.9E6	214.6E6	45.426	49.180
15)	B Endosulfa...	6.792	5.925	127.6E6	208.9E6	47.013	48.257
16)	A 4,4'-DDD	6.709	5.778	111.5E6	185.4E6	51.488	51.563
17)	MA 4,4'-DDT	7.022	6.028	118.6E6	206.1E6	49.879	51.120
18)	B Endrin al...	6.923	6.104	99371539	163.6E6	47.073	48.602
19)	B Endosulfa...	7.156	6.327	117.2E6	204.8E6	48.177	50.278
20)	A Methoxychlor	7.498	6.603	63553076	109.1E6	53.090	51.416
21)	B Endrin ke...	7.642	6.831	132.5E6	235.1E6	50.145	49.253m
22)	Mirex	8.114	7.010	98074894	173.2E6	47.464	45.642m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

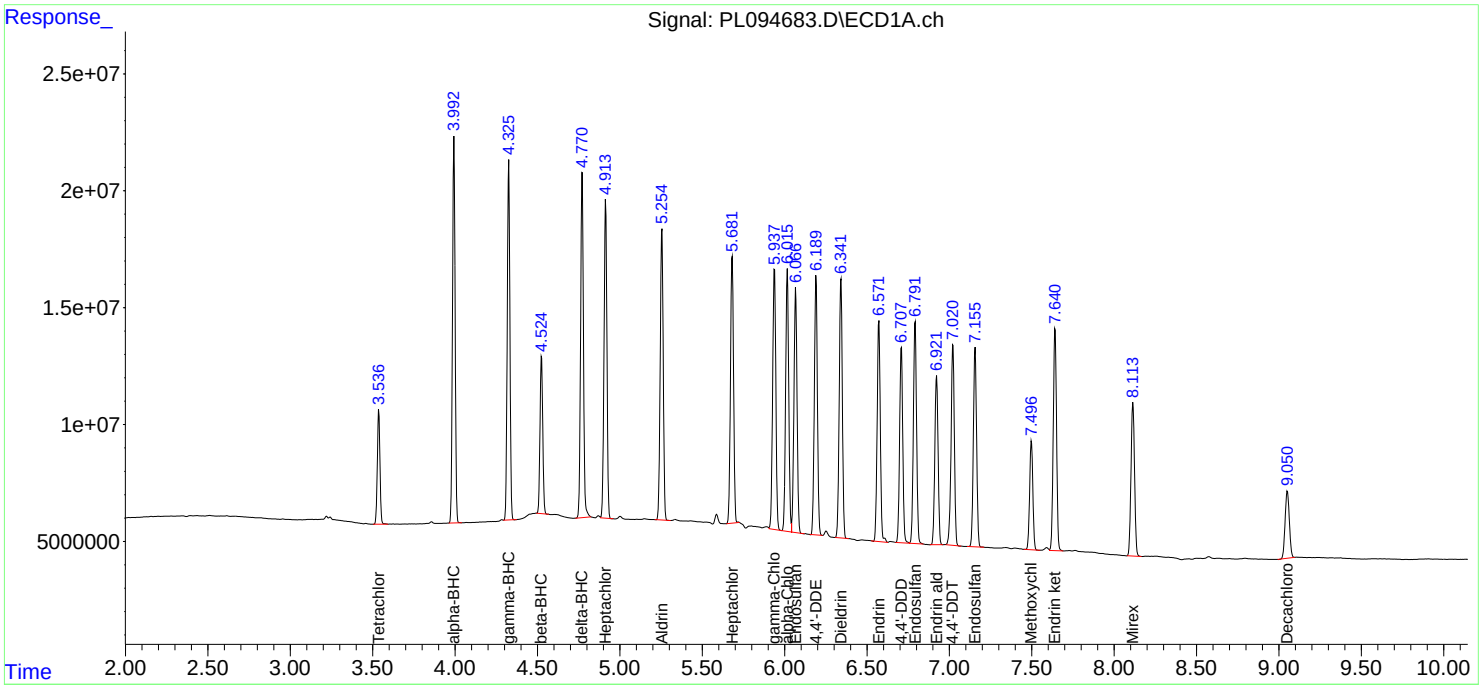
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031325\
Data File : PL094683.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2025 17:20
Operator : AR\AJ
Sample : PB167091BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

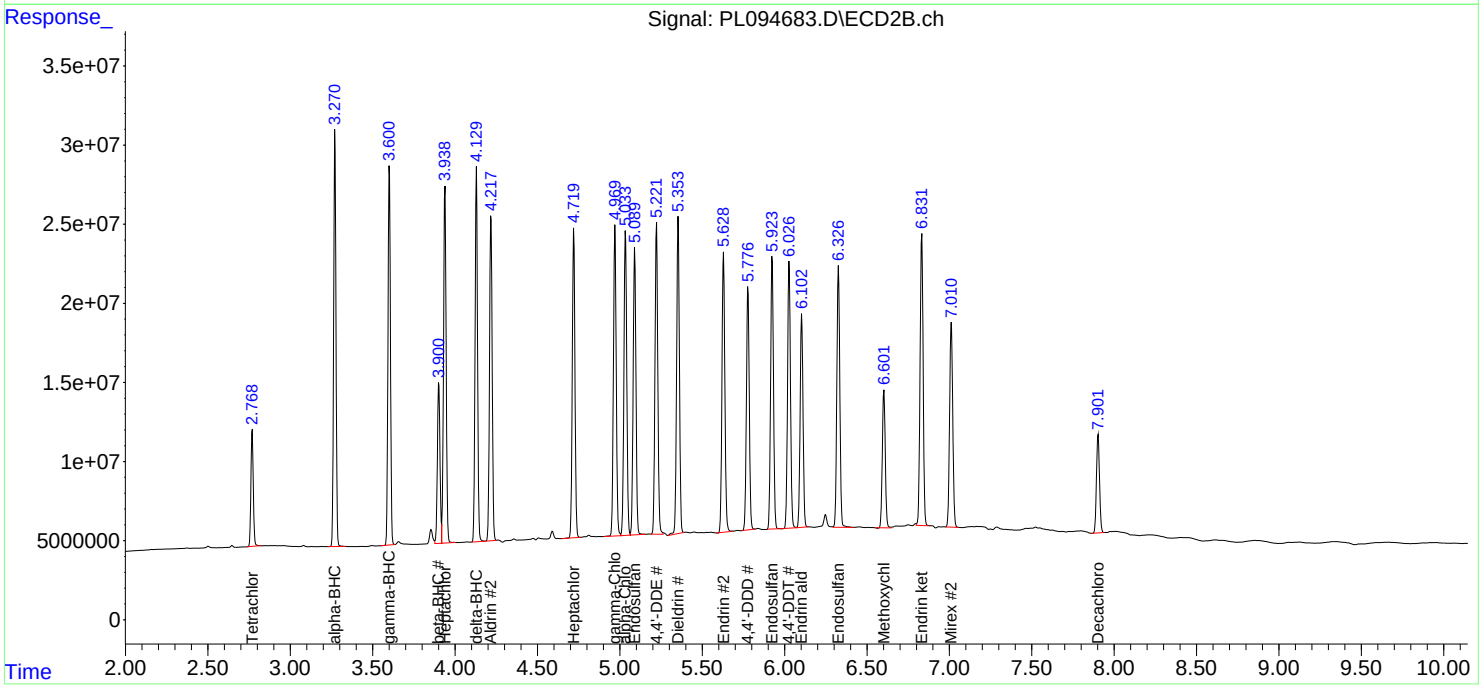
Instrument :
ECD_L
ClientSampleId :
PB167091BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/14/2025
Supervised By :mohammad ahmed 03/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 11:12:23 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





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094648.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:29
Operator : AR\AJ
Sample : Q1488-02MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:35:49 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...	3.537	2.772	58418796	76941111	20.638	21.557
28)	SA Decachlor...	9.051	7.904	58727746	108.4E6	27.867	26.831
	Target Compounds						
2)	A alpha-BHC	3.993	3.272	220.4E6	303.6E6	53.082	56.319m
3)	MA gamma-BHC...	4.324	3.603	294.5E6	339.4E6	73.803m	66.045
4)	MA Heptachlor	4.913	3.941	200.3E6	282.3E6	51.590	53.577
5)	MB Aldrin	5.254	4.219	190.5E6	271.2E6	51.597	55.620
6)	B beta-BHC	4.524	3.903	93685857	127.7E6	50.772	57.479
7)	B delta-BHC	4.770	4.131	244.1E6	295.2E6	62.678	59.008
8)	B Heptachlo...	5.681	4.722	178.0E6	257.8E6	53.214	56.312
9)	A Endosulfan I	6.066	5.092	162.4E6	246.5E6	52.884	56.176
10)	B gamma-Chl...	5.937	4.972	176.7E6	270.2E6	52.453	55.967
11)	B alpha-Chl...	6.016	5.035	174.3E6	265.0E6	52.855	55.531
12)	B 4,4'-DDE	6.189	5.224	167.3E6	265.9E6	56.880	57.197
13)	MA Dieldrin	6.342	5.356	177.9E6	276.1E6	55.619	56.902
14)	MA Endrin	6.571	5.631	144.1E6	252.6E6	51.985	57.894
15)	B Endosulfa...	6.791	5.926	152.5E6	249.6E6	56.189	57.675
16)	A 4,4'-DDD	6.708	5.779	131.5E6	220.4E6	60.720	61.293
17)	MA 4,4'-DDT	7.021	6.029	137.7E6	234.8E6	57.895	58.224
18)	B Endrin al...	6.922	6.106	113.4E6	189.3E6	53.741	56.259
19)	B Endosulfa...	7.156	6.328	138.9E6	242.5E6	57.100	59.533
20)	A Methoxychlor	7.497	6.604	68590351	119.8E6	57.298	56.475
21)	B Endrin ke...	7.641	6.833	156.0E6	287.5E6	59.025	60.234
22)	Mirex	8.113	7.011	114.3E6	212.4E6	55.333	55.960m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

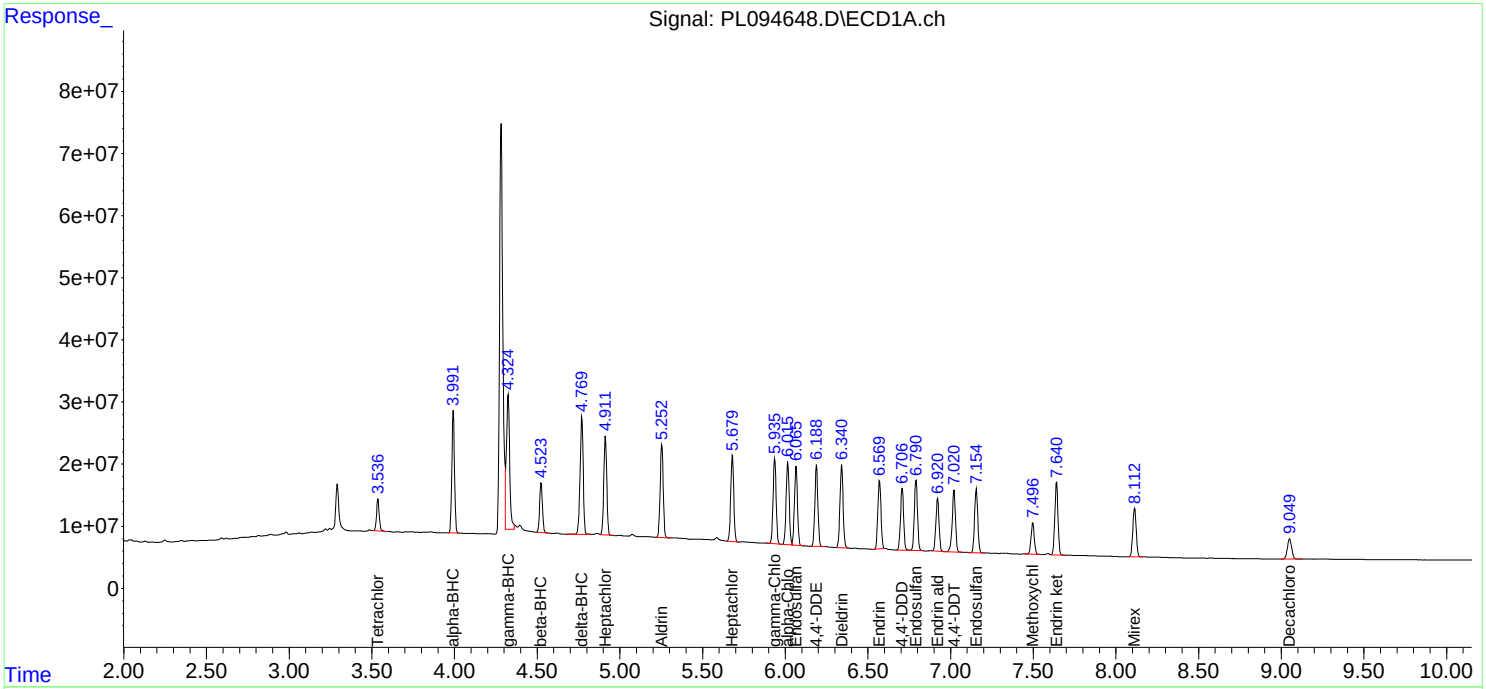
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094648.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:29
Operator : AR\AJ
Sample : Q1488-02MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

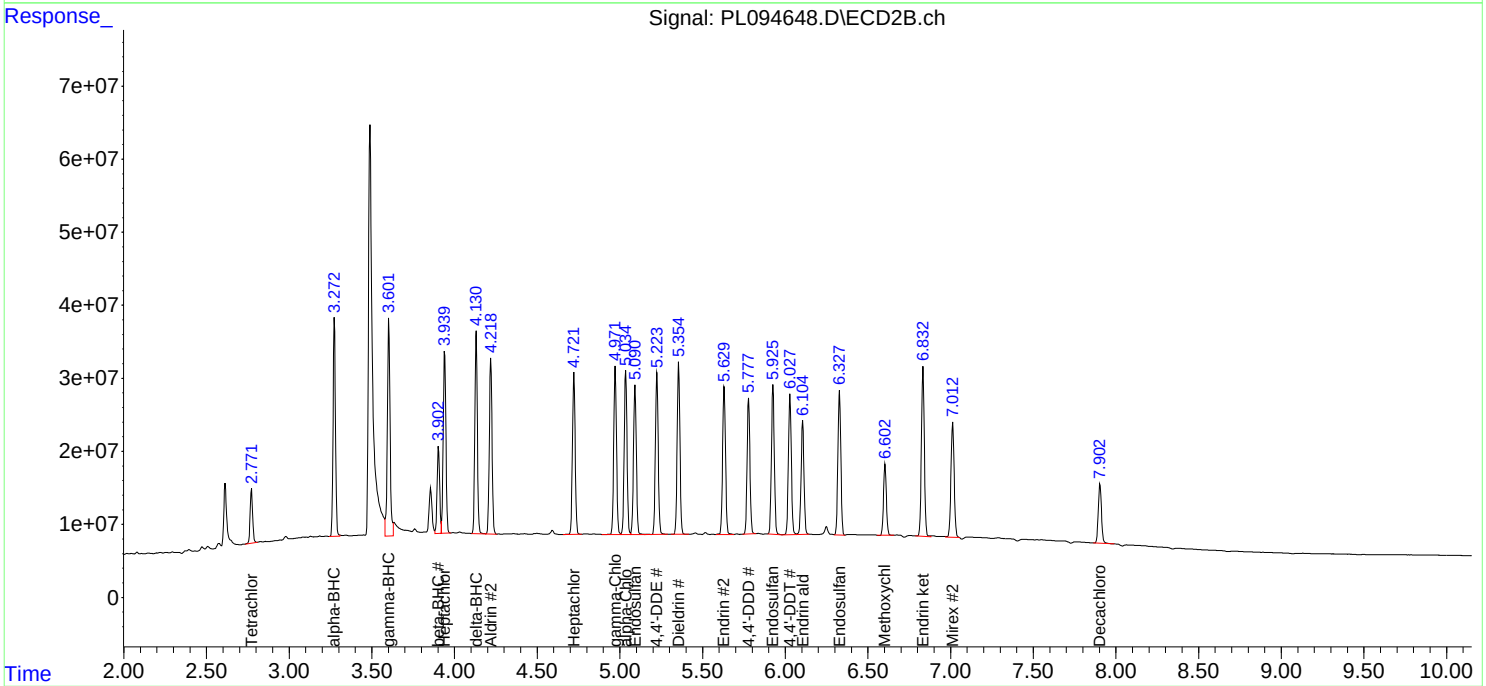
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:35:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

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 :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094649.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:42
Operator : AR\AJ
Sample : Q1488-02MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/14/2025
Supervised By :mohammad ahmed 03/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:36:04 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...	3.537	2.771	59099118	77716626	20.878	21.774
28) SA	Decachlor...	9.051	7.903	58639076	107.7E6	27.825	26.665
	Target Compounds						
2) A	alpha-BHC	3.993	3.273	220.9E6	309.2E6	53.193	57.360
3) MA	gamma-BHC...	4.323	3.601	289.7E6	344.4E6	72.591m	67.002m
4) MA	Heptachlor	4.912	3.940	197.4E6	283.3E6	50.851	53.773
5) MB	Aldrin	5.254	4.219	186.9E6	272.3E6	50.611	55.840
6) B	beta-BHC	4.524	3.903	93228879	127.5E6	50.525	57.389
7) B	delta-BHC	4.770	4.131	233.3E6	295.5E6	59.911	59.079
8) B	Heptachlo...	5.681	4.722	175.3E6	258.2E6	52.410	56.384
9) A	Endosulfan I	6.066	5.092	159.7E6	246.8E6	52.024	56.224
10) B	gamma-Chl...	5.937	4.972	174.8E6	271.1E6	51.864	56.138
11) B	alpha-Chl...	6.016	5.036	171.9E6	265.6E6	52.126	55.655
12) B	4,4'-DDE	6.190	5.224	166.7E6	265.7E6	56.654	57.148
13) MA	Dieldrin	6.341	5.356	173.7E6	275.6E6	54.311	56.800
14) MA	Endrin	6.570	5.631	144.4E6	252.6E6	52.094m	57.895
15) B	Endosulfa...	6.791	5.926	149.2E6	249.7E6	54.959	57.684
16) A	4,4'-DDD	6.707	5.779	128.7E6	220.7E6	59.422	61.386
17) MA	4,4'-DDT	7.021	6.029	135.8E6	233.4E6	57.099	57.874
18) B	Endrin al...	6.921	6.105	112.4E6	188.8E6	53.249	56.104
19) B	Endosulfa...	7.157	6.328	136.8E6	242.1E6	56.264	59.432
20) A	Methoxychlor	7.498	6.604	67588959	119.3E6	56.462	56.234
21) B	Endrin ke...	7.641	6.833	154.6E6	286.0E6	58.482	59.917
22)	Mirex	8.113	7.013	113.6E6	212.5E6	54.973	55.986

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

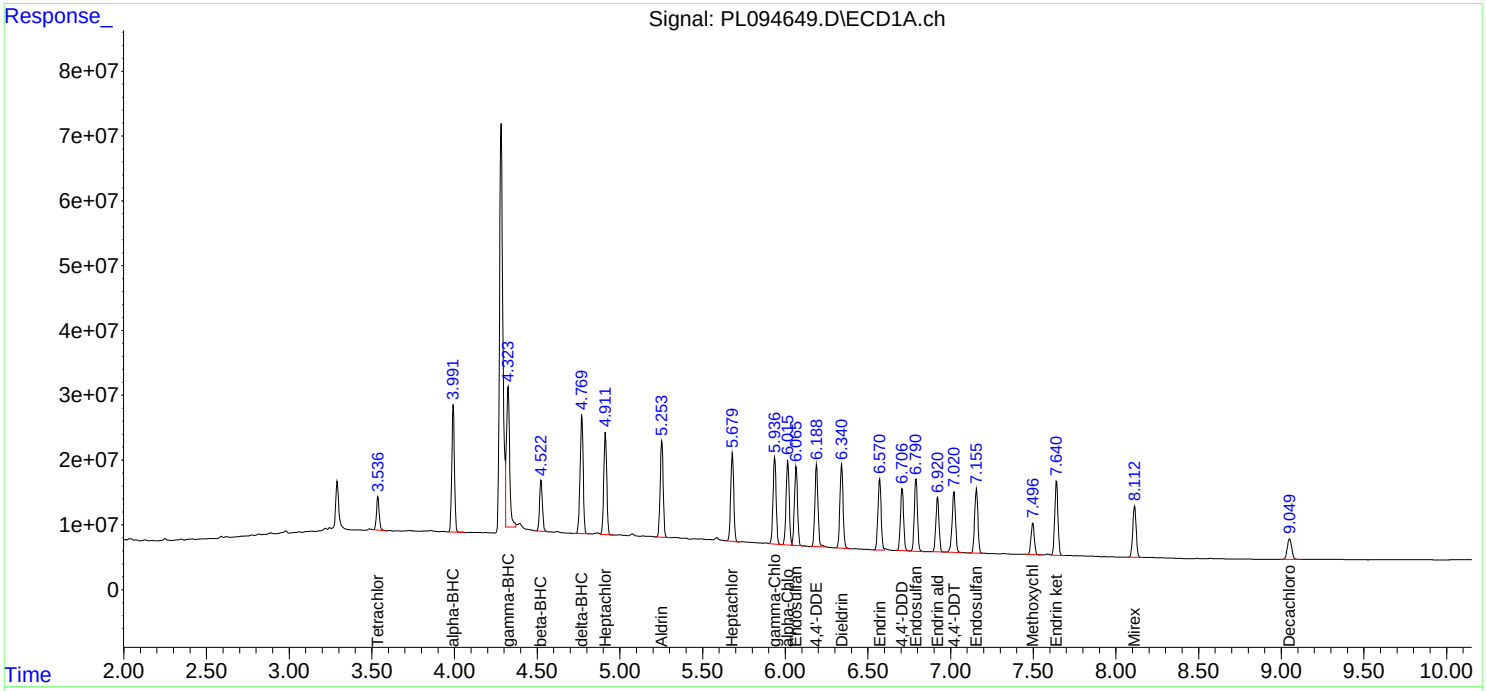
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL031225\
Data File : PL094649.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 18:42
Operator : AR\AJ
Sample : Q1488-02MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

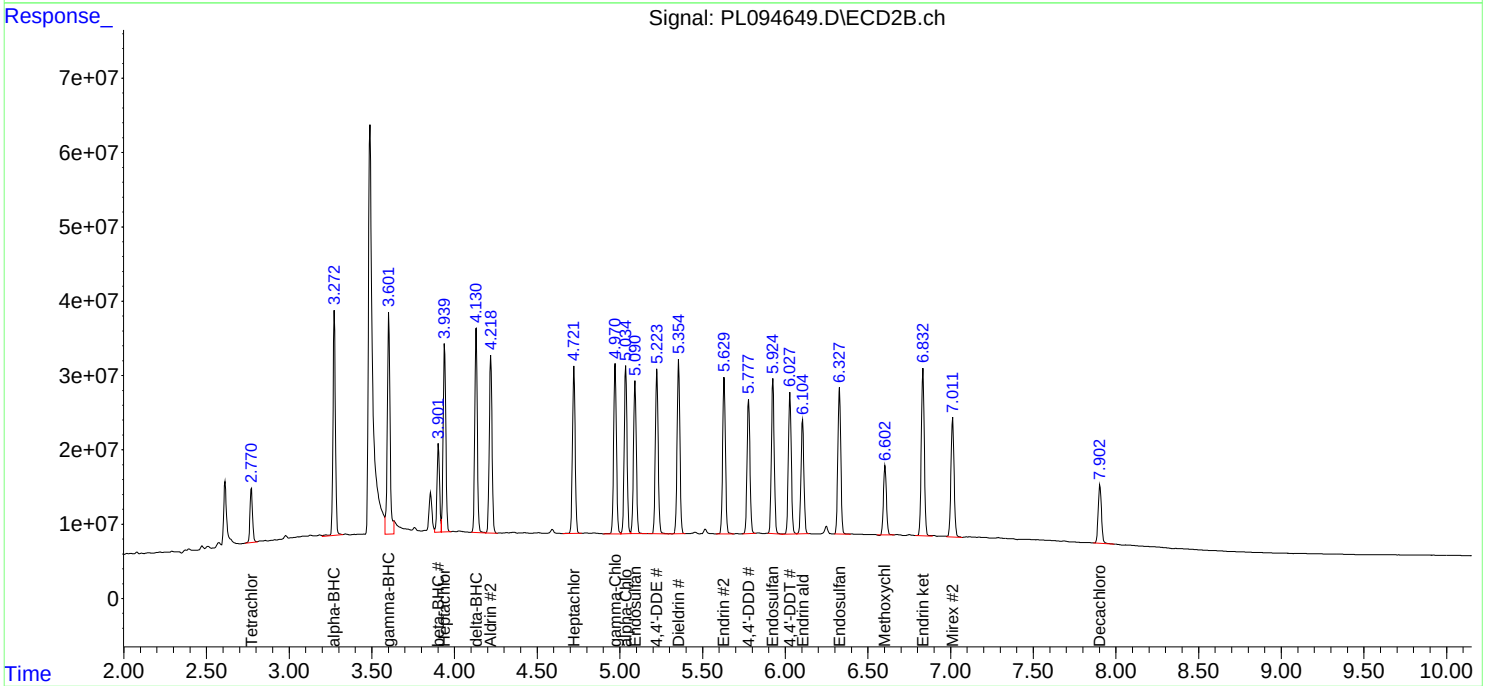
Instrument :
ECD_L
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/14/2025
Supervised By :mohammad ahmed 03/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 05:36:04 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





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
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

Alliance TECHNICAL GROUP
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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:	PL031225	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094621.D	4,4"-DDD	Abdul	3/13/2025 8:32:01 AM	Ankita	3/13/2025 11:41:55	Peak Integrated by Software
PEM	PL094621.D	4,4"-DDE	Abdul	3/13/2025 8:32:01 AM	Ankita	3/13/2025 11:41:55	Peak Integrated by Software
PEM	PL094621.D	4,4"-DDE #2	Abdul	3/13/2025 8:32:01 AM	Ankita	3/13/2025 11:41:55	Peak Integrated by Software
PEM	PL094621.D	Endrin	Abdul	3/13/2025 8:32:01 AM	Ankita	3/13/2025 11:41:55	Peak Integrated by Software
PEM	PL094621.D	Endrin aldehyde	Abdul	3/13/2025 8:32:01 AM	Ankita	3/13/2025 11:41:55	Peak Integrated by Software
PSTDCCC050	PL094622.D	4,4"-DDE	Abdul	3/13/2025 8:32:05 AM	Ankita	3/13/2025 11:41:57	Peak Integrated by Software
PSTDCCC050	PL094622.D	4,4"-DDE #2	Abdul	3/13/2025 8:32:05 AM	Ankita	3/13/2025 11:41:57	Peak Integrated by Software
PSTDCCC050	PL094622.D	Dieldrin	Abdul	3/13/2025 8:32:05 AM	Ankita	3/13/2025 11:41:57	Peak Integrated by Software
PSTDCCC050	PL094622.D	Endrin	Abdul	3/13/2025 8:32:05 AM	Ankita	3/13/2025 11:41:57	Peak Integrated by Software
PSTDCCC050	PL094629.D	4,4"-DDD	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	4,4"-DDE #2	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	Dieldrin #2	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	Endosulfan II	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL031225	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094629.D	Endrin	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	gamma-BHC (Lindane)	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	gamma-BHC (Lindane) #2	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	gamma-Chlordane	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PSTDCCC050	PL094629.D	Heptachlor epoxide	Abdul	3/13/2025 8:32:27 AM	Ankita	3/13/2025 11:42:24	Peak Integrated by Software
PCHLORCCC500	PL094630.D	Chlordane-2	Abdul	3/13/2025 8:32:31 AM	Ankita	3/13/2025 11:42:26	Peak Integrated by Software
PCHLORCCC500	PL094630.D	Chlordane-3	Abdul	3/13/2025 8:32:31 AM	Ankita	3/13/2025 11:42:26	Peak Integrated by Software
PCHLORCCC500	PL094630.D	Chlordane-4	Abdul	3/13/2025 8:32:31 AM	Ankita	3/13/2025 11:42:26	Peak Integrated by Software
PSTDCCC050	PL094640.D	4,4"-DDE #2	Abdul	3/13/2025 8:32:54 AM	Ankita	3/13/2025 11:42:35	Peak Integrated by Software
PSTDCCC050	PL094640.D	Dieldrin #2	Abdul	3/13/2025 8:32:54 AM	Ankita	3/13/2025 11:42:35	Peak Integrated by Software
PSTDCCC050	PL094640.D	Endrin	Abdul	3/13/2025 8:32:54 AM	Ankita	3/13/2025 11:42:35	Peak Integrated by Software
PCHLORCCC500	PL094641.D	Chlordane-2	Abdul	3/13/2025 8:32:58 AM	Ankita	3/13/2025 11:42:37	Peak Integrated by Software
PCHLORCCC500	PL094641.D	Chlordane-5	Abdul	3/13/2025 8:32:58 AM	Ankita	3/13/2025 11:42:37	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031225	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PCHLORCCC500	PL094641.D	Chlordane-5 #2	Abdul	3/13/2025 8:32:58 AM	Ankita	3/13/2025 11:42:37	Peak Integrated by Software
PTOXCCC500	PL094642.D	Toxaphene-2	Abdul	3/13/2025 8:33:04 AM	Ankita	3/13/2025 11:42:38	Peak Integrated by Software
Q1488-02MS	PL094648.D	alpha-BHC #2	Abdul	3/13/2025 8:33:17 AM	Ankita	3/13/2025 11:43:02	Peak Integrated by Software
Q1488-02MS	PL094648.D	gamma-BHC (Lindane)	Abdul	3/13/2025 8:33:17 AM	Ankita	3/13/2025 11:43:02	Peak Integrated by Software
Q1488-02MS	PL094648.D	Mirex #2	Abdul	3/13/2025 8:33:17 AM	Ankita	3/13/2025 11:43:02	Peak Integrated by Software
Q1488-02MSD	PL094649.D	Endrin	yogesh	3/14/2025 3:47:22 PM	mohammad	3/18/2025 6:27:43	Peak Integrated by Software
Q1488-02MSD	PL094649.D	gamma-BHC (Lindane)	yogesh	3/14/2025 3:47:22 PM	mohammad	3/18/2025 6:27:43	Peak Integrated by Software
Q1488-02MSD	PL094649.D	gamma-BHC (Lindane) #2	yogesh	3/14/2025 3:47:22 PM	mohammad	3/18/2025 6:27:43	Peak Integrated by Software
Q1488-04	PL094650.D	Decachlorobiphenyl	Abdul	3/13/2025 8:33:27 AM	Ankita	3/13/2025 11:43:03	Peak Integrated by Software
Q1488-04	PL094650.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:27 AM	Ankita	3/13/2025 11:43:03	Peak Integrated by Software
I.BLK	PL094651.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:33 AM	Ankita	3/13/2025 11:43:05	Peak Integrated by Software
PEM	PL094652.D	4,4"-DDE	Abdul	3/13/2025 8:33:37 AM	Ankita	3/13/2025 11:43:06	Peak Integrated by Software
PEM	PL094652.D	4,4"-DDE #2	Abdul	3/13/2025 8:33:37 AM	Ankita	3/13/2025 11:43:06	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031225	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094652.D	Endrin	Abdul	3/13/2025 8:33:37 AM	Ankita	3/13/2025 11:43:06	Peak Integrated by Software
PEM	PL094652.D	Endrin ketone #2	Abdul	3/13/2025 8:33:37 AM	Ankita	3/13/2025 11:43:06	Peak Integrated by Software
PSTDCCC050	PL094653.D	4,4"-DDE #2	Abdul	3/13/2025 8:34:19 AM	Ankita	3/13/2025 11:43:08	Peak Integrated by Software
PSTDCCC050	PL094653.D	Dieldrin #2	Abdul	3/13/2025 8:34:19 AM	Ankita	3/13/2025 11:43:08	Peak Integrated by Software
PSTDCCC050	PL094653.D	Endrin	Abdul	3/13/2025 8:34:19 AM	Ankita	3/13/2025 11:43:08	Peak Integrated by Software
Q1488-06	PL094654.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:41 AM	Ankita	3/13/2025 11:43:10	Peak Integrated by Software
Q1488-06	PL094654.D	Tetrachloro-m-xylene #2	Abdul	3/13/2025 8:33:41 AM	Ankita	3/13/2025 11:43:10	Peak Integrated by Software
Q1488-08	PL094655.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:44 AM	Ankita	3/13/2025 11:43:12	Peak Integrated by Software
Q1488-08	PL094655.D	Tetrachloro-m-xylene #2	Abdul	3/13/2025 8:33:44 AM	Ankita	3/13/2025 11:43:12	Peak Integrated by Software
Q1488-10	PL094656.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:49 AM	Ankita	3/13/2025 11:43:13	Peak Integrated by Software
I.BLK	PL094663.D	Tetrachloro-m-xylene	Abdul	3/13/2025 8:33:58 AM	Ankita	3/13/2025 11:43:17	Peak Integrated by Software
PSTDCCC050	PL094664.D	4,4"-DDE #2	Abdul	3/13/2025 8:31:20 AM	Ankita	3/13/2025 11:43:18	Peak Integrated by Software
PSTDCCC050	PL094664.D	Dieldrin #2	Abdul	3/13/2025 8:31:20 AM	Ankita	3/13/2025 11:43:18	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031225	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094664.D	Endosulfan I #2	Abdul	3/13/2025 8:31:20 AM	Ankita	3/13/2025 11:43:18	Peak Integrated by Software
PSTDCCC050	PL094664.D	Endrin	Abdul	3/13/2025 8:31:20 AM	Ankita	3/13/2025 11:43:18	Peak Integrated by Software
PSTDCCC050	PL094664.D	Endrin ketone #2	Abdul	3/13/2025 8:31:20 AM	Ankita	3/13/2025 11:43:18	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031325	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094667.D	4,4"-DDD	yogesh	3/14/2025 3:46:19 PM	mohammad	3/18/2025 5:07:31	Peak Integrated by Software
PEM	PL094667.D	4,4"-DDD #2	yogesh	3/14/2025 3:46:19 PM	mohammad	3/18/2025 5:07:31	Peak Integrated by Software
PEM	PL094667.D	Endrin aldehyde	yogesh	3/14/2025 3:46:19 PM	mohammad	3/18/2025 5:07:31	Peak Integrated by Software
PSTDCCC050	PL094668.D	Decachlorobiphenyl	yogesh	3/14/2025 3:46:21 PM	mohammad	3/18/2025 5:07:35	Peak Integrated by Software
PSTDCCC050	PL094668.D	Endrin ketone #2	yogesh	3/14/2025 3:46:21 PM	mohammad	3/18/2025 5:07:35	Peak Integrated by Software
PSTDCCC050	PL094677.D	Mirex #2	yogesh	3/14/2025 3:46:30 PM	mohammad	3/18/2025 5:07:54	Peak Integrated by Software
PB167091BS	PL094683.D	4,4"-DDE #2	yogesh	3/14/2025 3:46:37 PM	mohammad	3/18/2025 5:08:13	Peak Integrated by Software
PB167091BS	PL094683.D	Endrin ketone #2	yogesh	3/14/2025 3:46:37 PM	mohammad	3/18/2025 5:08:13	Peak Integrated by Software
PB167091BS	PL094683.D	Mirex #2	yogesh	3/14/2025 3:46:37 PM	mohammad	3/18/2025 5:08:13	Peak Integrated by Software
PSTDCCC050	PL094695.D	4,4"-DDE #2	yogesh	3/14/2025 3:46:47 PM	mohammad	3/18/2025 5:08:42	Peak Integrated by Software
PSTDCCC050	PL094695.D	Dieldrin #2	yogesh	3/14/2025 3:46:47 PM	mohammad	3/18/2025 5:08:42	Peak Integrated by Software
PSTDCCC050	PL094695.D	Endrin	yogesh	3/14/2025 3:46:47 PM	mohammad	3/18/2025 5:08:42	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031325	Instrument	ECD_I

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

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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,PP242583,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,PP242583,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,PP242583,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 # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,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	PL094619.D	12 Mar 2025 08:23	AR\AJ	Ok
2	I.BLK	PL094620.D	12 Mar 2025 08:37	AR\AJ	Ok
3	PEM	PL094621.D	12 Mar 2025 08:51	AR\AJ	Ok,M
4	PSTDCCC050	PL094622.D	12 Mar 2025 09:04	AR\AJ	Ok,M
5	Q1494-01	PL094623.D	12 Mar 2025 09:44	AR\AJ	Ok
6	PB167077BS	PL094624.D	12 Mar 2025 10:15	AR\AJ	Ok,M
7	Q1534-13DL	PL094625.D	12 Mar 2025 10:33	AR\AJ	Ok,M
8	Q1534-19DL	PL094626.D	12 Mar 2025 10:47	AR\AJ	Dilution
9	Q1534-19DL2	PL094627.D	12 Mar 2025 11:00	AR\AJ	Ok,M
10	I.BLK	PL094628.D	12 Mar 2025 11:14	AR\AJ	Ok
11	PSTDCCC050	PL094629.D	12 Mar 2025 11:37	AR\AJ	Ok,M
12	PCHLORCCC500	PL094630.D	12 Mar 2025 12:06	AR\AJ	Ok,M
13	PTOXCCC500	PL094631.D	12 Mar 2025 12:34	AR\AJ	Ok
14	PB167086BS	PL094632.D	12 Mar 2025 13:17	AR\AJ	Ok,M
15	PB167087BS	PL094633.D	12 Mar 2025 13:50	AR\AJ	Ok
16	Q1502-11	PL094634.D	12 Mar 2025 14:12	AR\AJ	Ok,M
17	Q1502-09DL	PL094635.D	12 Mar 2025 14:26	AR\AJ	Dilution
18	Q1502-09DL2	PL094636.D	12 Mar 2025 14:40	AR\AJ	Ok,M
19	Q1502-13	PL094637.D	12 Mar 2025 14:54	AR\AJ	Dilution
20	Q1502-13DL	PL094638.D	12 Mar 2025 15:07	AR\AJ	Ok
21	I.BLK	PL094639.D	12 Mar 2025 15:35	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PSTDCCC050	PL094640.D	12 Mar 2025 15:49	AR\AJ	Ok,M
23	PCHLORCCC500	PL094641.D	12 Mar 2025 16:02	AR\AJ	Ok,M
24	PTOXCCC500	PL094642.D	12 Mar 2025 16:54	AR\AJ	Ok,M
25	PB167091BL	PL094643.D	12 Mar 2025 17:20	AR\AJ	Not Ok
26	PB167091BS	PL094644.D	12 Mar 2025 17:34	AR\AJ	Not Ok
27	PB167020TB	PL094645.D	12 Mar 2025 17:48	AR\AJ	Not Ok
28	PB167049TB	PL094646.D	12 Mar 2025 18:01	AR\AJ	Not Ok
29	Q1488-02	PL094647.D	12 Mar 2025 18:15	AR\AJ	Ok
30	Q1488-02MS	PL094648.D	12 Mar 2025 18:29	AR\AJ	Ok,M
31	Q1488-02MSD	PL094649.D	12 Mar 2025 18:42	AR\AJ	Ok,M
32	Q1488-04	PL094650.D	12 Mar 2025 18:56	AR\AJ	Ok,M
33	I.BLK	PL094651.D	12 Mar 2025 19:10	AR\AJ	Ok,M
34	PEM	PL094652.D	12 Mar 2025 19:24	AR\AJ	Ok,M
35	PSTDCCC050	PL094653.D	12 Mar 2025 19:38	AR\AJ	Ok,M
36	Q1488-06	PL094654.D	12 Mar 2025 20:05	AR\AJ	Ok,M
37	Q1488-08	PL094655.D	12 Mar 2025 20:19	AR\AJ	Ok,M
38	Q1488-10	PL094656.D	12 Mar 2025 20:33	AR\AJ	Ok,M
39	Q1488-12	PL094657.D	12 Mar 2025 20:46	AR\AJ	Ok
40	Q1514-02	PL094658.D	12 Mar 2025 21:00	AR\AJ	Ok
41	Q1514-04	PL094659.D	12 Mar 2025 21:13	AR\AJ	Ok,M
42	Q1514-06	PL094660.D	12 Mar 2025 21:27	AR\AJ	Ok
43	Q1523-03	PL094661.D	12 Mar 2025 21:41	AR\AJ	Ok
44	Q1523-06	PL094662.D	12 Mar 2025 21:55	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	I.BLK	PL094663.D	12 Mar 2025 22:09	AR\AJ	Ok,M
46	PSTDCCC050	PL094664.D	12 Mar 2025 22:22	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031325

Review By	yogesh	Review On	3/14/2025 3:47:02 PM		
Supervise By	mohammad	Supervise On	3/18/2025 5:09:03 AM		
SubDirectory	PL031325	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,PP242583,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	PL094665.D	13 Mar 2025 10:10	AR\AJ	Ok
2	I.BLK	PL094666.D	13 Mar 2025 11:33	AR\AJ	Ok
3	PEM	PL094667.D	13 Mar 2025 11:53	AR\AJ	Ok,M
4	PSTDCCC050	PL094668.D	13 Mar 2025 12:24	AR\AJ	Ok,M
5	PB167112BL	PL094669.D	13 Mar 2025 12:54	AR\AJ	Not Ok
6	PB167112BS	PL094670.D	13 Mar 2025 13:38	AR\AJ	Ok
7	Q1545-01	PL094671.D	13 Mar 2025 14:02	AR\AJ	Ok,M
8	Q1547-01	PL094672.D	13 Mar 2025 14:16	AR\AJ	Ok
9	Q1547-01MS	PL094673.D	13 Mar 2025 14:29	AR\AJ	Ok,M
10	Q1547-01MSD	PL094674.D	13 Mar 2025 14:43	AR\AJ	Ok,M
11	Q1547-06	PL094675.D	13 Mar 2025 14:57	AR\AJ	Ok
12	I.BLK	PL094676.D	13 Mar 2025 15:12	AR\AJ	Ok
13	PSTDCCC050	PL094677.D	13 Mar 2025 15:25	AR\AJ	Ok,M
14	Q1549-01	PL094678.D	13 Mar 2025 15:39	AR\AJ	Ok,M
15	Q1552-01	PL094679.D	13 Mar 2025 15:53	AR\AJ	Ok,M
16	Q1553-01	PL094680.D	13 Mar 2025 16:07	AR\AJ	Ok,M
17	Q1556-01	PL094681.D	13 Mar 2025 16:21	AR\AJ	Ok
18	PB167091BL	PL094682.D	13 Mar 2025 16:34	AR\AJ	Ok
19	PB167091BS	PL094683.D	13 Mar 2025 17:20	AR\AJ	Ok,M
20	PB167020TB	PL094684.D	13 Mar 2025 17:33	AR\AJ	Ok
21	PB167049TB	PL094685.D	13 Mar 2025 17:47	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031325

Review By	yogesh	Review On	3/14/2025 3:47:02 PM		
Supervise By	mohammad	Supervise On	3/18/2025 5:09:03 AM		
SubDirectory	PL031325	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB167125BL	PL094686.D	13 Mar 2025 18:01	AR\AJ	Ok
23	PB167125BS	PL094687.D	13 Mar 2025 18:15	AR\AJ	Not Ok
24	PB167103TB	PL094688.D	13 Mar 2025 18:28	AR\AJ	Ok
25	Q1547-05	PL094689.D	13 Mar 2025 18:42	AR\AJ	Ok,M
26	Q1547-10	PL094690.D	13 Mar 2025 18:56	AR\AJ	Ok,M
27	Q1552-05	PL094691.D	13 Mar 2025 19:09	AR\AJ	Ok
28	Q1547-05MS	PL094692.D	13 Mar 2025 19:23	AR\AJ	Ok,M
29	Q1547-05MSD	PL094693.D	13 Mar 2025 19:37	AR\AJ	Ok,M
30	I.BLK	PL094694.D	13 Mar 2025 19:51	AR\AJ	Ok
31	PSTDCCC050	PL094695.D	13 Mar 2025 20:04	AR\AJ	Ok,M

M : Manual Integration

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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,PP242583,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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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,PP242583,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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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,PP242583,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 # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,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	PL094619.D	12 Mar 2025 08:23		AR\AJ	Ok
2	I.BLK	I.BLK	PL094620.D	12 Mar 2025 08:37		AR\AJ	Ok
3	PEM	PEM	PL094621.D	12 Mar 2025 08:51		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL094622.D	12 Mar 2025 09:04		AR\AJ	Ok,M
5	Q1494-01	PURGE-WATER	PL094623.D	12 Mar 2025 09:44		AR\AJ	Ok
6	PB167077BS	PB167077BS	PL094624.D	12 Mar 2025 10:15		AR\AJ	Ok,M
7	Q1534-13DL	OR-636-COMP-18DL	PL094625.D	12 Mar 2025 10:33		AR\AJ	Ok,M
8	Q1534-19DL	OR-636-COMP-19DL	PL094626.D	12 Mar 2025 10:47	need dilution	AR\AJ	Dilution
9	Q1534-19DL2	OR-636-COMP-19DL2	PL094627.D	12 Mar 2025 11:00		AR\AJ	Ok,M
10	I.BLK	I.BLK	PL094628.D	12 Mar 2025 11:14		AR\AJ	Ok
11	PSTDCCC050	PSTDCCC050	PL094629.D	12 Mar 2025 11:37		AR\AJ	Ok,M
12	PCHLORCCC500	PCHLORCCC500	PL094630.D	12 Mar 2025 12:06		AR\AJ	Ok,M
13	PTOXCCC500	PTOXCCC500	PL094631.D	12 Mar 2025 12:34		AR\AJ	Ok
14	PB167086BS	PB167086BS	PL094632.D	12 Mar 2025 13:17		AR\AJ	Ok,M
15	PB167087BS	PB167087BS	PL094633.D	12 Mar 2025 13:50		AR\AJ	Ok
16	Q1502-11	PT-CHLR-WP	PL094634.D	12 Mar 2025 14:12	TCMX high in 2nd column	AR\AJ	Ok,M
17	Q1502-09DL	PT-PEST-WPDL	PL094635.D	12 Mar 2025 14:26	TCMX high in 1st column , Need dilution	AR\AJ	Dilution

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1502-09DL2	PT-PEST-WPDL2	PL094636.D	12 Mar 2025 14:40	DCB and TCMX high in 1st column	AR\AJ	Ok,M
19	Q1502-13	PT-TXP-WP	PL094637.D	12 Mar 2025 14:54	need dilution	AR\AJ	Dilution
20	Q1502-13DL	PT-TXP-WPDL	PL094638.D	12 Mar 2025 15:07		AR\AJ	Ok
21	I.BLK	I.BLK	PL094639.D	12 Mar 2025 15:35		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PL094640.D	12 Mar 2025 15:49		AR\AJ	Ok,M
23	PCHLORCCC500	PCHLORCCC500	PL094641.D	12 Mar 2025 16:02		AR\AJ	Ok,M
24	PTOXCCC500	PTOXCCC500	PL094642.D	12 Mar 2025 16:54		AR\AJ	Ok,M
25	PB167091BL	PB167091BL	PL094643.D	12 Mar 2025 17:20	DCB high in 1st column	AR\AJ	Not Ok
26	PB167091BS	PB167091BS	PL094644.D	12 Mar 2025 17:34	DCB high in both column , TCMX high in 1st column , Comp#20 recovery fail	AR\AJ	Not Ok
27	PB167020TB	PB167020TB	PL094645.D	12 Mar 2025 17:48	DCB high in 1st column	AR\AJ	Not Ok
28	PB167049TB	PB167049TB	PL094646.D	12 Mar 2025 18:01	DCB high in 1st column	AR\AJ	Not Ok
29	Q1488-02	ENV-101-SB01	PL094647.D	12 Mar 2025 18:15		AR\AJ	Ok
30	Q1488-02MS	ENV-101-SB01MS	PL094648.D	12 Mar 2025 18:29		AR\AJ	Ok,M
31	Q1488-02MSD	ENV-101-SB01MSD	PL094649.D	12 Mar 2025 18:42		AR\AJ	Ok,M
32	Q1488-04	ENV-101-SB02	PL094650.D	12 Mar 2025 18:56		AR\AJ	Ok,M
33	I.BLK	I.BLK	PL094651.D	12 Mar 2025 19:10		AR\AJ	Ok,M
34	PEM	PEM	PL094652.D	12 Mar 2025 19:24		AR\AJ	Ok,M
35	PSTDCCC050	PSTDCCC050	PL094653.D	12 Mar 2025 19:38	Comp#16 high in 2nd column	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031225

Review By	Abdul	Review On	3/13/2025 8:34:38 AM		
Supervise By	Ankita	Supervise On	3/13/2025 11:43:34 AM		
SubDirectory	PL031225	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	Q1488-06	ENV-102-SB01	PL094654.D	12 Mar 2025 20:05	DCB high in 1st column	AR\AJ	Ok,M
37	Q1488-08	ENV-102-SB02	PL094655.D	12 Mar 2025 20:19		AR\AJ	Ok,M
38	Q1488-10	ENV-104-SB01	PL094656.D	12 Mar 2025 20:33		AR\AJ	Ok,M
39	Q1488-12	ENV-104-SB02	PL094657.D	12 Mar 2025 20:46		AR\AJ	Ok
40	Q1514-02	ENV-105-SB01	PL094658.D	12 Mar 2025 21:00		AR\AJ	Ok
41	Q1514-04	ENV-105-SB02	PL094659.D	12 Mar 2025 21:13		AR\AJ	Ok,M
42	Q1514-06	ENV-103-SB01	PL094660.D	12 Mar 2025 21:27		AR\AJ	Ok
43	Q1523-03	WC-A1-01-C	PL094661.D	12 Mar 2025 21:41		AR\AJ	Ok
44	Q1523-06	WC-A2-02-C	PL094662.D	12 Mar 2025 21:55		AR\AJ	Ok
45	I.BLK	I.BLK	PL094663.D	12 Mar 2025 22:09	DCB high in 1st column	AR\AJ	Ok,M
46	PSTDCCC050	PSTDCCC050	PL094664.D	12 Mar 2025 22:22	Comp#16 high in both column	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031325

Review By	yogesh	Review On	3/14/2025 3:47:02 PM		
Supervise By	mohammad	Supervise On	3/18/2025 5:09:03 AM		
SubDirectory	PL031325	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,PP242583,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	PL094665.D	13 Mar 2025 10:10		AR\AJ	Ok
2	I.BLK	I.BLK	PL094666.D	13 Mar 2025 11:33		AR\AJ	Ok
3	PEM	PEM	PL094667.D	13 Mar 2025 11:53		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL094668.D	13 Mar 2025 12:24		AR\AJ	Ok,M
5	PB167112BL	PB167112BL	PL094669.D	13 Mar 2025 12:54	f falg	AR\AJ	Not Ok
6	PB167112BS	PB167112BS	PL094670.D	13 Mar 2025 13:38		AR\AJ	Ok
7	Q1545-01	BU-02-031125	PL094671.D	13 Mar 2025 14:02		AR\AJ	Ok,M
8	Q1547-01	OR-620-JB-COMP-01	PL094672.D	13 Mar 2025 14:16		AR\AJ	Ok
9	Q1547-01MS	OR-620-JB-COMP-01M	PL094673.D	13 Mar 2025 14:29		AR\AJ	Ok,M
10	Q1547-01MSD	OR-620-JB-COMP-01M	PL094674.D	13 Mar 2025 14:43		AR\AJ	Ok,M
11	Q1547-06	OR-620-JB-COMP-02	PL094675.D	13 Mar 2025 14:57		AR\AJ	Ok
12	I.BLK	I.BLK	PL094676.D	13 Mar 2025 15:12		AR\AJ	Ok
13	PSTDCCC050	PSTDCCC050	PL094677.D	13 Mar 2025 15:25		AR\AJ	Ok,M
14	Q1549-01	72-11978	PL094678.D	13 Mar 2025 15:39		AR\AJ	Ok,M
15	Q1552-01	NB-418-JB-COMP-01	PL094679.D	13 Mar 2025 15:53		AR\AJ	Ok,M
16	Q1553-01	RT2321	PL094680.D	13 Mar 2025 16:07		AR\AJ	Ok,M
17	Q1556-01	OR-02-031225	PL094681.D	13 Mar 2025 16:21		AR\AJ	Ok
18	PB167091BL	PB167091BL	PL094682.D	13 Mar 2025 16:34		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031325

Review By	yogesh	Review On	3/14/2025 3:47:02 PM		
Supervise By	mohammad	Supervise On	3/18/2025 5:09:03 AM		
SubDirectory	PL031325	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,PP242583,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167091BS	PB167091BS	PL094683.D	13 Mar 2025 17:20		AR\AJ	Ok,M
20	PB167020TB	PB167020TB	PL094684.D	13 Mar 2025 17:33		AR\AJ	Ok
21	PB167049TB	PB167049TB	PL094685.D	13 Mar 2025 17:47		AR\AJ	Ok
22	PB167125BL	PB167125BL	PL094686.D	13 Mar 2025 18:01		AR\AJ	Ok
23	PB167125BS	PB167125BS	PL094687.D	13 Mar 2025 18:15	Methoxychlor Recovery fail for 1st column	AR\AJ	Not Ok
24	PB167103TB	PB167103TB	PL094688.D	13 Mar 2025 18:28		AR\AJ	Ok
25	Q1547-05	OR-620-JB-COMP-01	PL094689.D	13 Mar 2025 18:42		AR\AJ	Ok,M
26	Q1547-10	OR-620-JB-COMP-02	PL094690.D	13 Mar 2025 18:56		AR\AJ	Ok,M
27	Q1552-05	NB-418-JB-COMP-01	PL094691.D	13 Mar 2025 19:09		AR\AJ	Ok
28	Q1547-05MS	OR-620-JB-COMP-01M	PL094692.D	13 Mar 2025 19:23		AR\AJ	Ok,M
29	Q1547-05MSD	OR-620-JB-COMP-01M	PL094693.D	13 Mar 2025 19:37		AR\AJ	Ok,M
30	I.BLK	I.BLK	PL094694.D	13 Mar 2025 19:51		AR\AJ	Ok
31	PSTDCCC050	PSTDCCC050	PL094695.D	13 Mar 2025 20:04		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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 : 03/06/2025 **Time :** 17:00

End Prep Date : 03/07/2025 **Time :** 11:20

Combination Ratio : 20

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

Initial Room Temperature: 25 °C

Final Room Temperature: 22 °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	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1L Amber bottle	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 in not required. TUMBLER T-1 /T-2 checked,30 rpm. q1514-06 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/07/25 12:30	JP / TCLP Room	JPP RJ / EXT
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167020TB	LEB020	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A
Q1510-01	FMC-25-0001-0005	N/A	N/A	N/A	N/A	100	N/A
Q1514-02	ENV-105-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1514-04	ENV-105-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1514-06	ENV-103-SB01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167020

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
PB167020TB	LEB020	N/A	N/A	N/A	N/A	#1	4.94
Q1488-02	ENV-101-SB01	5.01	96.5	6.2	2.5	#1	4.94
Q1488-04	ENV-101-SB02	5.02	96.5	6.6	2.0	#1	4.94
Q1488-06	ENV-102-SB01	5.03	96.5	6.2	2.5	#1	4.94
Q1488-08	ENV-102-SB02	5.04	96.5	7.2	2.5	#1	4.94
Q1488-10	ENV-104-SB01	5.03	96.5	6.6	2.0	#1	4.94
Q1488-12	ENV-104-SB02	5.02	96.5	7.0	2.5	#1	4.94
Q1490-02	CLAY-SLUDGE-DRUMS	5.04	96.5	7.0	2.5	#1	4.94
Q1494-04	ASPHALT-SOIL	5.01	96.5	8.6	3.0	#1	4.94
Q1494-06	SOIL	5.02	96.5	9.1	4.0	#1	4.94
Q1494-08	SOIL-COMP	5.04	96.5	8.6	3.5	#1	4.94
Q1510-01	FMC-25-0001-0005	5.03	96.5	5.6	1.5	#1	4.94
Q1514-02	ENV-105-SB01	5.01	96.5	7.6	2.5	#1	4.94
Q1514-04	ENV-105-SB02	5.02	96.5	8.0	3.0	#1	4.94
Q1514-06	ENV-103-SB01	5.03	96.5	9.1	3.5	#1	4.94

Q1488

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1490 **WorkList ID :** 188086 **Department :** TCLP Extraction **Date :** 03-06-2025 11:40:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-02	ENV-101-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-04	ENV-101-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-06	ENV-102-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-08	ENV-102-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-10	ENV-104-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-12	ENV-104-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1494-04	ASPHALT-SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311
Q1494-06	SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1494-08	SOIL-COMP	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1510-01	FMC-25-0001-0005	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1514-02	ENV-105-SB01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/06/2025	1311
Q1514-04	ENV-105-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311
Q1514-06	ENV-103-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311

1040 of 2177

Date/Time 03106125 16:10

Raw Sample Received by: SB (WC)

Raw Sample Relinquished by: CA SM

Date/Time 03106125 18:00

Raw Sample Received by: CA SM

Raw Sample Relinquished by: SB (WC)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167091

SOP ID: M3510C,3580A-Extraction Pesticide-16

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/11/2025

Extraction Start Time : 11:54

Extraction End Date : 03/11/2025

Extraction End Time : 16:55

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24208
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	E3878
Baked Na2SO4	N/A	EP2593
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:

40ML Vial Lot # 03-40BTS721.

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
3/11/25	RS (Ext-lab)	Y.P. Post PCB.
17:20	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167091

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 03/11/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167020TB	PB167020TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			SEP-1
PB167049TB	PB167049TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			2
PB167091BL	PBLK091	TCLP Pesticide	1000	6	RUPESH	ritesh	10			3
PB167091BS	PLCS091	TCLP Pesticide	1000	6	RUPESH	ritesh	10			4
Q1488-02	ENV-101-SB01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
Q1488-02MS	ENV-101-SB01MS	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
Q1488-02MSD	ENV-101-SB01MSD	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7
Q1488-04	ENV-101-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		8
Q1488-06	ENV-102-SB01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		9
Q1488-08	ENV-102-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		10
Q1488-10	ENV-104-SB01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		11
Q1488-12	ENV-104-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		12
Q1514-02	ENV-105-SB01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		13
Q1514-04	ENV-105-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		14
Q1514-06	ENV-103-SB01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		15
Q1523-03	WC-A1-01-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		16
Q1523-06	WC-A2-02-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		17

RS 3/11

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

03/07/25

12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167049

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
PB167049TB	LEB049	10	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q1523-03	WC-A1-01-C	01	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q1523-06	WC-A2-02-C	02	100.01	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q1534-06	OR-363-COMP-16	03	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1534-12	OR-363-COMP-17	04	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1534-18	OR-363-COMP-18	05	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1534-24	OR-363OR-363-COMP-19-	06	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1537-05	COMP-1	07	100.03	2000	N/A	N/A	N/A	10.0	1.5	T-1
Q1537-06	COMP-2	08	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q1537-07	COMP-3	09	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-1

03/11/2025
11:00

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

LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	

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

LAB CHRONICLE

			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			EPH	NJEPH		03/05/25	03/05/25	
			PCB	8082A		03/06/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**			**03/04/25**
			EPH	NJEPH		03/05/25	03/05/25	
			PCB	8082A		03/06/25	03/06/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.5 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
PP070272.D	1	03/05/25 09:10	03/05/25 17:08	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	19.2	ug/kg
11104-28-2	Aroclor-1221	7.20	U	7.20	19.2	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	19.2	ug/kg
53469-21-9	Aroclor-1242	3.80	U	3.80	19.2	ug/kg
12672-29-6	Aroclor-1248	8.90	U	8.90	19.2	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.2	ug/kg
37324-23-5	Aroclor-1262	5.10	U	5.10	19.2	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.2	ug/kg
11096-82-5	Aroclor-1260	3.30	U	3.30	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.5		30 (32) - 150 (144)	127%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		30 (32) - 150 (175)	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 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
PP070273.D	1	03/05/25 09:10	03/05/25 17:25	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.70	U	3.70	18.8	ug/kg
11104-28-2	Aroclor-1221	7.10	U	7.10	18.8	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	18.8	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.8	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.8	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.8	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.8	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.8	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.3		30 (32) - 150 (144)	136%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.7		30 (32) - 150 (175)	113%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	85.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070281.D	1	03/05/25 09:10	03/05/25 20:08	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	19.8	ug/kg
11104-28-2	Aroclor-1221	7.50	U	7.50	19.8	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	19.8	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.8	ug/kg
12672-29-6	Aroclor-1248	9.20	U	9.20	19.8	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	19.8	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	19.8	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.8	ug/kg
11096-82-5	Aroclor-1260	3.40	U	3.40	19.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.8		30 (32) - 150 (144)	129%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		30 (32) - 150 (175)	113%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	80.1 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
PP070282.D	1	03/05/25 09:10	03/05/25 20:24	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.20	U	4.20	21.2	ug/kg
11104-28-2	Aroclor-1221	8.00	U	8.00	21.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	21.2	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	21.2	ug/kg
12672-29-6	Aroclor-1248	9.80	U	9.80	21.2	ug/kg
11097-69-1	Aroclor-1254	3.40	U	3.40	21.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	21.2	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	21.2	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	21.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.2		30 (32) - 150 (144)	126%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		30 (32) - 150 (175)	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	82.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070283.D	1	03/05/25 09:10	03/05/25 20:40	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.10	U	4.10	20.6	ug/kg
11104-28-2	Aroclor-1221	7.70	U	7.70	20.6	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	20.6	ug/kg
53469-21-9	Aroclor-1242	4.10	U	4.10	20.6	ug/kg
12672-29-6	Aroclor-1248	9.50	U	9.50	20.6	ug/kg
11097-69-1	Aroclor-1254	3.30	U	3.30	20.6	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	20.6	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	20.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	20.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.4		30 (32) - 150 (144)	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.9		30 (32) - 150 (175)	80%	SPK: 20

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	81.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070284.D	1	03/05/25 09:10	03/05/25 20:56	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.20	U	4.20	20.9	ug/kg
11104-28-2	Aroclor-1221	7.90	U	7.90	20.9	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	20.9	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	20.9	ug/kg
12672-29-6	Aroclor-1248	9.70	U	9.70	20.9	ug/kg
11097-69-1	Aroclor-1254	3.40	U	3.40	20.9	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	20.9	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	20.9	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	20.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.5		30 (32) - 150 (144)	123%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		30 (32) - 150 (175)	89%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	380 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109670.D	1	03/06/25 09:05	03/06/25 19:15	PB167009

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.39	U	0.39	1.30	ug/L
11104-28-2	Aroclor-1221	0.61	U	0.61	1.30	ug/L
11141-16-5	Aroclor-1232	0.97	U	0.97	1.30	ug/L
53469-21-9	Aroclor-1242	0.42	U	0.42	1.30	ug/L
12672-29-6	Aroclor-1248	0.32	U	0.32	1.30	ug/L
11097-69-1	Aroclor-1254	0.29	U	0.29	1.30	ug/L
37324-23-5	Aroclor-1262	0.37	U	0.37	1.30	ug/L
11100-14-4	Aroclor-1268	0.32	U	0.32	1.30	ug/L
11096-82-5	Aroclor-1260	0.39	U	0.39	1.30	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.1		30 (16) - 150 (158)	136%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		30 (10) - 150 (173)	96%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	820 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109671.D	1	03/06/25 09:05	03/06/25 19:33	PB167009

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.18	U	0.18	0.61	ug/L
11104-28-2	Aroclor-1221	0.28	U	0.28	0.61	ug/L
11141-16-5	Aroclor-1232	0.45	U	0.45	0.61	ug/L
53469-21-9	Aroclor-1242	0.20	U	0.20	0.61	ug/L
12672-29-6	Aroclor-1248	0.15	U	0.15	0.61	ug/L
11097-69-1	Aroclor-1254	0.13	U	0.13	0.61	ug/L
37324-23-5	Aroclor-1262	0.17	U	0.17	0.61	ug/L
11100-14-4	Aroclor-1268	0.15	U	0.15	0.61	ug/L
11096-82-5	Aroclor-1260	0.18	U	0.18	0.61	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.1		30 (16) - 150 (158)	135%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		30 (10) - 150 (173)	88%	SPK: 20

Comments:

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QC SUMMARY

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

SDG No.: Q1488

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-PO109425.D	PIBLK-PO109425.D	Tetrachloro-m-xylene	1	20	25.3	126		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	25.3	126		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	24.1	121		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	25.5	127		70 (60)	130 (140)
I.BLK-PO109666.D	PIBLK-PO109666.D	Tetrachloro-m-xylene	1	20	17.7	89		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	16.1	80		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.9	95		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.8	89		70 (60)	130 (140)
PB167009BL	PB167009BL	Tetrachloro-m-xylene	1	20	22.4	112		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	20.5	102		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	23.7	119		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	21.9	110		30 (10)	150 (173)
PB167009BS	PB167009BS	Tetrachloro-m-xylene	1	20	21.6	108		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	20.6	103		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	22.5	112		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	22.1	110		30 (10)	150 (173)
PB167009BSD	PB167009BSD	Tetrachloro-m-xylene	1	20	21.5	107		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	20.4	102		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	22.3	112		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	22.1	111		30 (10)	150 (173)
Q1488-13	ENV-102-GW01	Tetrachloro-m-xylene	1	20	25.9	129		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	17.6	88		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	27.1	136		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	19.2	96		30 (10)	150 (173)
Q1488-14	ENV-104-GW01	Tetrachloro-m-xylene	1	20	25.9	129		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	16.1	80		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	27.1	135		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	17.6	88		30 (10)	150 (173)
I.BLK-PO109681.D	PIBLK-PO109681.D	Tetrachloro-m-xylene	1	20	18.1	90		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.0	85		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.9	95		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.4	92		70 (60)	130 (140)
I.BLK-PP069995.D	PIBLK-PP069995.D	Tetrachloro-m-xylene	1	20	21.9	109		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.8	109		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.6	108		70 (60)	130 (140)
I.BLK-PP070263.D	PIBLK-PP070263.D	Tetrachloro-m-xylene	1	20	20.1	100		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.8	94		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.9	105		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.3	102		70 (60)	130 (140)
PB166985BL	PB166985BL	Tetrachloro-m-xylene	1	20	24.9	125		30 (32)	150 (144)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB166985BL	PB166985BL	Decachlorobiphenyl	1	20	22.2	111		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.1	121		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.8	119		30 (32)	150 (175)
PB166985BS	PB166985BS	Tetrachloro-m-xylene	1	20	25.4	127		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.5	113		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.1	121		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.7	119		30 (32)	150 (175)
Q1488-01	ENV-101-SB01	Tetrachloro-m-xylene	1	20	25.0	125		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.5	97		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	25.5	127		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.7	104		30 (32)	150 (175)
Q1488-03	ENV-101-SB02	Tetrachloro-m-xylene	1	20	27.0	135		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.4	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.3	136		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.7	113		30 (32)	150 (175)
I.BLK-PP070278.D	PIBLK-PP070278.D	Tetrachloro-m-xylene	1	20	21.2	106		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.6	98		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.7	104		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.6	103		70 (60)	130 (140)
Q1488-03MS	ENV-101-SB02MS	Tetrachloro-m-xylene	1	20	24.9	125		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.6	98		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	23.8	119		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.1	106		30 (32)	150 (175)
Q1488-03MSD	ENV-101-SB02MSD	Tetrachloro-m-xylene	1	20	26.5	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.3	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.6	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.1	121		30 (32)	150 (175)
Q1488-05	ENV-102-SB01	Tetrachloro-m-xylene	1	20	25.6	128		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.7	104		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	25.8	129		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.6	113		30 (32)	150 (175)
Q1488-07	ENV-102-SB02	Tetrachloro-m-xylene	1	20	25.2	126		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.4	97		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.9	125		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.1	106		30 (32)	150 (175)
Q1488-09	ENV-104-SB01	Tetrachloro-m-xylene	1	20	22.3	112		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	14.1	70		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	22.4	112		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	15.9	80		30 (32)	150 (175)
Q1488-11	ENV-104-SB02	Tetrachloro-m-xylene	1	20	24.5	123		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.6	83		30 (32)	150 (175)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1488-11	ENV-104-SB02	Tetrachloro-m-xylene	2	20	24.1	120		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.7	89		30 (32)	150 (175)
I.BLK-PP070293.D	PIBLK-PP070293.D	Tetrachloro-m-xylene	1	20	21.6	108		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.2	101		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.7	109		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.4	107		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070279.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:	**ENV-101-SB02MS**											
Q1488-03MS	AR1016	183.5	0	188	ug/kg	102				40 (55)	140 (146)	
	AR1260	183.5	0	174	ug/kg	95				40 (31)	140 (146)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070280.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:	**ENV-101-SB02MSD**											
Q1488-03MSD	AR1016	183.7	0	193	ug/kg	105		3		40 (55)	140 (146)	30 (20)
	AR1260	183.7	0	183	ug/kg	100		5		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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO109668.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167009BS	AR1016	5	5.00	ug/L	100				40 (61)	140 (112)	
	AR1260	5	4.80	ug/L	96				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO109669.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167009BSD	AR1016	5	5.00	ug/L	100	0			40 (61)	140 (112)	20 (20)
	AR1260	5	4.80	ug/L	96	0			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP070265.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166985BS	AR1016	166.6	165	ug/kg	99				40 (71)	140 (120)	
	AR1260	166.6	161	ug/kg	97				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166985BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB166985BL Lab File ID: PP070264.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 03/05/2025

Date Analyzed (1): 03/05/2025 Date Analyzed (2): 03/05/2025

Time Analyzed (1): 14:58 Time Analyzed (2): 14:58

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
PB166985BS	PB166985BS	PP070265.D	03/05/2025	03/05/2025
ENV-101-SB01	Q1488-01	PP070272.D	03/05/2025	03/05/2025
ENV-101-SB02	Q1488-03	PP070273.D	03/05/2025	03/05/2025
ENV-101-SB02MS	Q1488-03MS	PP070279.D	03/05/2025	03/05/2025
ENV-101-SB02MSD	Q1488-03MSD	PP070280.D	03/05/2025	03/05/2025
ENV-102-SB01	Q1488-05	PP070281.D	03/05/2025	03/05/2025
ENV-102-SB02	Q1488-07	PP070282.D	03/05/2025	03/05/2025
ENV-104-SB01	Q1488-09	PP070283.D	03/05/2025	03/05/2025
ENV-104-SB02	Q1488-11	PP070284.D	03/05/2025	03/05/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167009BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB167009BL Lab File ID: PO109667.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 03/06/2025

Date Analyzed (1): 03/06/2025 Date Analyzed (2): 03/06/2025

Time Analyzed (1): 18:19 Time Analyzed (2): 18:19

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167009BS	PB167009BS	PO109668.D	03/06/2025	03/06/2025
PB167009BSD	PB167009BSD	PO109669.D	03/06/2025	03/06/2025
ENV-102-GW01	Q1488-13	PO109670.D	03/06/2025	03/06/2025
ENV-104-GW01	Q1488-14	PO109671.D	03/06/2025	03/06/2025

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:	PB166985BL	SDG No.:	Q1488
Lab Sample ID:	PB166985BL	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
PP070264.D	1	03/05/25 09:10	03/05/25 14:58	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		30 (32) - 150 (144)	125%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		30 (32) - 150 (175)	119%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167009BL	SDG No.:	Q1488
Lab Sample ID:	PB167009BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109667.D	1	03/06/25 09:05	03/06/25 18:19	PB167009

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.7		30 (16) - 150 (158)	119%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.9		30 (10) - 150 (173)	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:	02/20/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/20/25
Client Sample ID:	PIBLK-PO109425.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PO109425.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
PO109425.D	1		02/20/25	PO022025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.1		70 (60) - 130 (140)	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.3		70 (60) - 130 (140)	126%	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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	PIBLK-PO109666.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PO109666.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
PO109666.D	1		03/06/25	PO030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.7		70 (60) - 130 (140)	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		70 (60) - 130 (140)	80%	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:	03/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/07/25
Client Sample ID:	PIBLK-PO109681.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PO109681.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
PO109681.D	1		03/07/25	PO030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.0		70 (60) - 130 (140)	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	PIBLK-PP069995.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PP069995.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069995.D	1		02/24/25	PP022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		70 (60) - 130 (140)	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070263.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PP070263.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
PP070263.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		70 (60) - 130 (140)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		70 (60) - 130 (140)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070278.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PP070278.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
PP070278.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		70 (60) - 130 (140)	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		70 (60) - 130 (140)	98%	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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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070293.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PP070293.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
PP070293.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		70 (60) - 130 (140)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		70 (60) - 130 (140)	101%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166985BS	SDG No.:	Q1488
Lab Sample ID:	PB166985BS	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
PP070265.D	1	03/05/25 09:10	03/05/25 15:14	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	165		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	161		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.4		30 (32) - 150 (144)	127%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.7		30 (32) - 150 (175)	119%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167009BS	SDG No.:	Q1488
Lab Sample ID:	PB167009BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109668.D	1	03/06/25 09:05	03/06/25 18:38	PB167009

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.00		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.80		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		30 (16) - 150 (158)	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		30 (10) - 150 (173)	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:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167009BSD	SDG No.:	Q1488
Lab Sample ID:	PB167009BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109669.D	1	03/06/25 09:05	03/06/25 18:56	PB167009

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.00		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.80		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		30 (16) - 150 (158)	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		30 (10) - 150 (173)	111%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-03MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.07 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
PP070279.D	1	03/05/25 09:10	03/05/25 19:35	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	188		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	7.10	U	7.10	18.7	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	174		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		30 (32) - 150 (144)	125%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		30 (32) - 150 (175)	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-03MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070280.D	1	03/05/25 09:10	03/05/25 19:51	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	193		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	7.10	U	7.10	18.7	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	183		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.5		30 (32) - 150 (144)	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.1		30 (32) - 150 (175)	121%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Calibration Date(s):** 02/20/2025 02/21/2025

Calibration Times: 16:46 01:02

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO109426.D RT 750 = PO109427.D

RT 500 = PO109428.D RT 250 = PO109429.D RT 050 = PO109430.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1016-2	(2)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1016-3	(3)	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Aroclor-1016-4	(4)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1016-5	(5)	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Aroclor-1260-1	(1)	6.29	6.29	6.29	6.29	6.29	6.29	6.19	6.39
Aroclor-1260-2	(2)	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Aroclor-1260-3	(3)	6.85	6.85	6.85	6.85	6.84	6.85	6.75	6.95
Aroclor-1260-4	(4)	7.11	7.11	7.11	7.11	7.10	7.11	7.01	7.21
Aroclor-1260-5	(5)	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
Decachlorobiphenyl		8.76	8.76	8.76	8.76	8.76	8.76	8.66	8.86
Tetrachloro-m-xylene		3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80
Aroclor-1242-1	(1)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1242-2	(2)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1242-3	(3)	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Aroclor-1242-4	(4)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1242-5	(5)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Decachlorobiphenyl		8.76	8.76	8.76	8.76	8.76	8.76	8.66	8.86
Tetrachloro-m-xylene		3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80
Aroclor-1248-1	(1)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1248-2	(2)	5.03	5.03	5.03	5.03	5.03	5.03	4.93	5.13
Aroclor-1248-3	(3)	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Aroclor-1248-4	(4)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1248-5	(5)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Decachlorobiphenyl		8.76	8.76	8.76	8.76	8.75	8.76	8.66	8.86
Tetrachloro-m-xylene		3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80
Aroclor-1254-1	(1)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1254-2	(2)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1254-3	(3)	6.16	6.16	6.16	6.16	6.16	6.16	6.06	6.26
Aroclor-1254-4	(4)	6.38	6.39	6.39	6.39	6.38	6.39	6.29	6.49
Aroclor-1254-5	(5)	6.81	6.81	6.81	6.81	6.81	6.81	6.71	6.91
Decachlorobiphenyl		8.75	8.76	8.76	8.76	8.76	8.76	8.66	8.86
Tetrachloro-m-xylene		3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80
Aroclor-1268-1	(1)	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
Aroclor-1268-2	(2)	7.70	7.70	7.70	7.70	7.70	7.70	7.60	7.80
Aroclor-1268-3	(3)	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
Aroclor-1268-4	(4)	8.19	8.19	8.19	8.19	8.19	8.19	8.09	8.29
Aroclor-1268-5	(5)	8.49	8.49	8.49	8.49	8.49	8.49	8.39	8.59

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.76	8.76	8.75	8.76	8.75	8.76	8.66	8.86
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Calibration Date(s):** 02/20/2025 02/21/2025

Calibration Times: 16:46 01:02

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO109426.D RT 750 = PO109427.D

RT 500 = PO109428.D RT 250 = PO109429.D RT 050 = PO109430.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1016-2	(2)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1016-3	(3)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1016-4	(4)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1016-5	(5)	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
Aroclor-1260-1	(1)	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Aroclor-1260-2	(2)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Aroclor-1260-3	(3)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1260-4	(4)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1260-5	(5)	7.31	7.31	7.31	7.31	7.31	7.31	7.21	7.41
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1242-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1242-2	(2)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1242-3	(3)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1242-4	(4)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1242-5	(5)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1248-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1248-2	(2)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1248-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1248-4	(4)	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
Aroclor-1248-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1254-1	(1)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Aroclor-1254-2	(2)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-3	(3)	6.13	6.13	6.13	6.13	6.13	6.13	6.03	6.23
Aroclor-1254-4	(4)	6.36	6.36	6.36	6.36	6.36	6.36	6.26	6.46
Aroclor-1254-5	(5)	6.77	6.78	6.77	6.78	6.77	6.77	6.67	6.87
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1268-1	(1)	7.60	7.60	7.60	7.60	7.60	7.60	7.50	7.70
Aroclor-1268-2	(2)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Aroclor-1268-3	(3)	7.87	7.87	7.87	7.87	7.87	7.87	7.77	7.97
Aroclor-1268-4	(4)	8.15	8.15	8.15	8.15	8.15	8.15	8.05	8.25
Aroclor-1268-5	(5)	8.45	8.45	8.45	8.45	8.45	8.45	8.35	8.55

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.71	8.71	8.71	8.71	8.70	8.71	8.61	8.81
Tetrachloro-m-xylene	3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Calibration Date(s):** 02/20/2025 02/21/2025

Calibration Times: 16:46 01:02

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO109426.D **CF 750 =** PO109427.D

CF 500 = PO109428.D **CF 250 =** PO109429.D **CF 050 =** PO109430.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	285955176	296470909	301678880	330073932	327272520	308290283	6
Aroclor-1016-2	(2)	400344510	409149469	414645114	446605912	434387780	421026557	5
Aroclor-1016-3	(3)	275712654	284750529	289403798	321232168	307985600	295816950	6
Aroclor-1016-4	(4)	217819857	224475380	225979744	249359212	241266360	231780111	6
Aroclor-1016-5	(5)	234915990	244172492	252269048	280073416	279718840	258229957	8
Aroclor-1260-1	(1)	432857882	445030616	458030860	496965692	497771560	466131322	6
Aroclor-1260-2	(2)	530613873	540598143	549997768	596865796	607516180	565118352	6
Aroclor-1260-3	(3)	446055940	458685821	463532386	505033376	504998020	475661109	6
Aroclor-1260-4	(4)	409227231	417077069	426071740	458083200	447546300	431601108	5
Aroclor-1260-5	(5)	975246933	982402905	1001465846	1034939896	975352280	993881572	3
Decachlorobiphenyl		8144381710	8253336907	8542716440	9068866760	9000001000	8601860563	5
Tetrachloro-m-xylene		9594159870	9382441773	9407964980	9839303320	9101752600	9465124509	3
Aroclor-1242-1	(1)	241553792	248781753	263582376	278206104	276700060	261764817	6
Aroclor-1242-2	(2)	330250979	341141312	360022594	377835792	370979720	356046079	6
Aroclor-1242-3	(3)	230958690	239403319	256570990	271941764	257976860	251370325	6
Aroclor-1242-4	(4)	181873604	188232188	200194694	210194852	201763980	196451864	6
Aroclor-1242-5	(5)	192196869	198312276	212424054	232317448	236630280	214376185	9
Decachlorobiphenyl		7571460160	7783053733	8197005760	8686332120	8704566000	8188483555	6
Tetrachloro-m-xylene		9236931880	9400204853	9446860340	9568057960	9056865000	9341784007	2
Aroclor-1248-1	(1)	183385441	189253437	200901320	213658596	210346400	199509039	7
Aroclor-1248-2	(2)	249519113	262229969	281655510	299590856	298458120	278290714	8
Aroclor-1248-3	(3)	313646829	324719312	346217716	370103360	392176240	349372691	9
Aroclor-1248-4	(4)	439951399	452724037	479184310	509535492	504078340	477094716	6
Aroclor-1248-5	(5)	310476659	318507132	337630456	365736804	380196620	342509534	9
Decachlorobiphenyl		7703959900	7913043760	8337132500	8816038680	8879579800	8329950928	6
Tetrachloro-m-xylene		9154374770	9319706587	9763537060	9884300480	9250244600	9474432699	3
Aroclor-1254-1	(1)	480630669	491242291	514290722	548494120	543375540	515606668	6
Aroclor-1254-2	(2)	417535343	429223996	451482582	481224324	472406420	450374533	6
Aroclor-1254-3	(3)	684838056	697322969	725628940	760808456	711178620	715955408	4
Aroclor-1254-4	(4)	417970360	409808872	428749386	461366848	376062040	418791501	7
Aroclor-1254-5	(5)	597298518	608943563	631623464	663830224	617819000	623902954	4
Decachlorobiphenyl		7967092830	8125756000	8528343640	8986366600	8782372000	8477986214	5
Tetrachloro-m-xylene		9511051460	9602004080	9843620680	9994457760	8495604200	9489347636	6
Aroclor-1268-1	(1)	1298860853	1294002563	1318124330	1365675636	1344427900	1324218256	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1196326079	1189492827	1207881780	1246550744	1205280700	1209106426	2
Aroclor-1268-3	(3)	1000400149	998939115	1012813102	1049647308	1029090160	1018177967	2
Aroclor-1268-4	(4)	407507962	408969772	420298422	442140308	445377360	424858765	4
Aroclor-1268-5	(5)	3060378797	3013397139	3036609122	3075360324	2912511720	3019651420	2
Decachlorobiphenyl		14147642890	14125651173	14472115980	15180190720	15441285400	14673377233	4
Tetrachloro-m-xylene		9652630020	9799388160	9953085600	10360200640	9708060200	9894672924	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Calibration Date(s):** 02/20/2025 02/21/2025

Calibration Times: 16:46 01:02

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO109426.D **CF 750 =** PO109427.D

CF 500 = PO109428.D **CF 250 =** PO109429.D **CF 050 =** PO109430.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	144422659	148428763	152032096	167484860	168484300	156170536	7
Aroclor-1016-2	(2)	205202725	208508729	213432994	229519564	225505040	216433810	5
Aroclor-1016-3	(3)	112302196	115067393	117212622	128579748	124094120	119451216	6
Aroclor-1016-4	(4)	94709981	98717735	101165102	112923876	112836120	104070563	8
Aroclor-1016-5	(5)	124417087	127943616	132644098	146345704	149917060	136253513	8
Aroclor-1260-1	(1)	217936136	223782013	232739904	251644640	258495520	236919643	7
Aroclor-1260-2	(2)	255563339	259366392	268832038	291215424	300878620	275171163	7
Aroclor-1260-3	(3)	239301078	242165468	249897958	270279452	273707020	255070195	6
Aroclor-1260-4	(4)	193987222	196916529	202218624	218214048	219624820	206192249	6
Aroclor-1260-5	(5)	436097628	435546231	443785112	464386884	459099080	447782987	3
Decachlorobiphenyl		2971514290	3027039307	3156019460	3385128400	3381593200	3184258931	6
Tetrachloro-m-xylene		5186272490	5246400280	5221242400	5478386840	5038748400	5234210082	3
Aroclor-1242-1	(1)	120966720	124746516	133128702	141428800	141463920	132346932	7
Aroclor-1242-2	(2)	169605960	173512545	183266616	192017376	189176180	181515735	5
Aroclor-1242-3	(3)	93390359	96634075	102245092	107691940	99411220	99874537	5
Aroclor-1242-4	(4)	96389066	101019272	107789002	115338428	114056640	106918482	8
Aroclor-1242-5	(5)	113196636	117716005	125239314	135801980	136573300	125705447	8
Decachlorobiphenyl		2727823240	2861750760	3019178360	3243379080	3243962600	3019218808	8
Tetrachloro-m-xylene		5001213420	5078322907	5254229320	5289448280	4851665000	5094975785	4
Aroclor-1248-1	(1)	91256927	94139561	100767396	107614600	108857060	100527109	8
Aroclor-1248-2	(2)	130560541	136645137	146421094	157143508	156628300	145479716	8
Aroclor-1248-3	(3)	139283148	144897643	155701690	166430352	168727860	155008139	8
Aroclor-1248-4	(4)	163903044	169411200	180364434	193711724	196594760	180797032	8
Aroclor-1248-5	(5)	154356880	158447996	169575560	183331920	195308840	172204239	10
Decachlorobiphenyl		2790488700	2873613467	3038569420	3241156720	3294897400	3047745141	7
Tetrachloro-m-xylene		4955293160	5040468413	5221131320	5264696400	4750589600	5046435779	4
Aroclor-1254-1	(1)	243640751	248872624	260914738	280861344	273402140	261538319	6
Aroclor-1254-2	(2)	212545511	218679507	230680254	249214456	261687520	234561450	9
Aroclor-1254-3	(3)	339799719	346366689	360950750	378906048	357499640	356704569	4
Aroclor-1254-4	(4)	192329190	189854227	199746634	214807996	168878980	193123405	9
Aroclor-1254-5	(5)	278490681	283928981	296376396	314100456	310764660	296732235	5
Decachlorobiphenyl		2841760820	2921691133	3072525860	3310057280	3280037800	3085214579	7
Tetrachloro-m-xylene		5117525260	5147853200	5214583540	5337931960	4481650800	5059908952	7
Aroclor-1268-1	(1)	554131487	553810328	564174560	591076320	593868340	571412207	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	512614105	511079256	520949472	543420336	536655740	524943782	3
Aroclor-1268-3	(3)	413643589	412567932	420525622	442592008	450889440	428043718	4
Aroclor-1268-4	(4)	153729603	155030577	163078820	169661456	165174880	161335067	4
Aroclor-1268-5	(5)	1087226853	1077982207	1085826158	1121186428	1093500600	1093144449	2
Decachlorobiphenyl		4950835750	4972853373	5123922200	5430816080	5582978400	5212281161	5
Tetrachloro-m-xylene		5266816140	5271127760	5328349480	5507659840	5128975000	5300585644	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Date(s) Analyzed:** 02/20/2025 02/21/2025

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	3.91	3.81	4.01	131879000
		2	4.00	3.90	4.10	98701000
		3	4.07	3.97	4.17	269838000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.07	3.97	4.17	208928000
		2	4.57	4.47	4.67	116083000
		3	4.81	4.71	4.91	201936000
		4	4.99	4.89	5.09	111220000
		5	5.03	4.93	5.13	81668600
Aroclor-1262	500	1	6.85	6.75	6.95	665842000
		2	7.35	7.25	7.45	1129720000
		3	7.63	7.53	7.73	448264000
		4	7.70	7.60	7.80	829210000
		5	8.19	8.09	8.29	373330000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_O **Date(s) Analyzed:** 02/20/2025 02/21/2025

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	3.91	3.81	4.01	68502400
		2	3.99	3.89	4.09	51339800
		3	4.07	3.97	4.17	145428000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.07	3.97	4.17	111462000
		2	4.80	4.70	4.90	103317000
		3	4.97	4.87	5.07	56771800
		4	5.06	4.96	5.16	54894600
		5	5.23	5.13	5.33	58805000
Aroclor-1262	500	1	6.81	6.71	6.91	317212000
		2	7.31	7.21	7.41	498620000
		3	7.60	7.50	7.70	196255000
		4	7.66	7.56	7.76	354890000
		5	8.15	8.05	8.25	143138000

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1016-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1016-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1016-5	(5)	6.15	6.15	6.16	6.15	6.15	6.15	6.05	6.25
Aroclor-1260-1	(1)	7.27	7.27	7.28	7.27	7.28	7.27	7.17	7.37
Aroclor-1260-2	(2)	7.52	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Aroclor-1260-3	(3)	7.88	7.89	7.89	7.88	7.89	7.89	7.79	7.99
Aroclor-1260-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1260-5	(5)	8.43	8.43	8.43	8.43	8.43	8.43	8.33	8.53
Decachlorobiphenyl		10.25	10.26	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene		4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63
Aroclor-1242-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1242-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1242-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1242-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.25	10.26	10.25	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.53	4.53	4.43	4.63
Aroclor-1248-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1248-2	(2)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Aroclor-1248-3	(3)	6.15	6.16	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1248-4	(4)	6.55	6.56	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1248-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.26	10.26	10.26	10.25	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.53	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1254-1	(1)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-2	(2)	6.75	6.74	6.75	6.75	6.74	6.75	6.65	6.85
Aroclor-1254-3	(3)	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
Aroclor-1254-4	(4)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Aroclor-1254-5	(5)	7.81	7.80	7.81	7.81	7.81	7.81	7.71	7.91
Decachlorobiphenyl		10.26	10.25	10.26	10.26	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1268-1	(1)	8.74	8.75	8.75	8.74	8.75	8.75	8.65	8.85
Aroclor-1268-2	(2)	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
Aroclor-1268-3	(3)	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
Aroclor-1268-4	(4)	9.49	9.49	9.49	9.49	9.49	9.49	9.39	9.59
Aroclor-1268-5	(5)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.25	10.25	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene	4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1016-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-5	(5)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1260-1	(1)	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-2	(2)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1260-3	(3)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Aroclor-1260-4	(4)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-5	(5)	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1242-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1242-4	(4)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1242-5	(5)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1248-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1248-2	(2)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-3	(3)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1248-4	(4)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1248-5	(5)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1254-1	(1)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-2	(2)	5.88	5.88	5.88	5.88	5.87	5.88	5.78	5.98
Aroclor-1254-3	(3)	6.28	6.28	6.28	6.28	6.28	6.28	6.18	6.38
Aroclor-1254-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1254-5	(5)	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1268-1	(1)	7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Aroclor-1268-2	(2)	7.81	7.82	7.82	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-3	(3)	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
Aroclor-1268-4	(4)	8.32	8.32	8.32	8.31	8.32	8.32	8.22	8.42
Aroclor-1268-5	(5)	8.62	8.62	8.62	8.62	8.62	8.62	8.52	8.72

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene	3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	45557625	47855512	49968516	54800208	50948980	49826168	7
Aroclor-1016-2	(2)	66706952	67781012	72991154	76640772	69769920	70777962	6
Aroclor-1016-3	(3)	40794671	44579197	45146958	47844192	41247180	43922440	7
Aroclor-1016-4	(4)	33978080	35043389	37559532	39668600	35057220	36261364	6
Aroclor-1016-5	(5)	31514906	31680175	34068042	35364724	35064900	33538549	5
Aroclor-1260-1	(1)	54823994	55486535	59388846	62695304	59405260	58359988	6
Aroclor-1260-2	(2)	73383444	75987972	80712800	85961116	92581060	81725278	9
Aroclor-1260-3	(3)	59489338	60560020	64011918	67792592	61951460	62761066	5
Aroclor-1260-4	(4)	58704582	59596489	63141360	67201512	68361020	63400993	7
Aroclor-1260-5	(5)	124764910	128178828	134805260	140592412	127581700	131184622	5
Decachlorobiphenyl		1071742430	1139629213	1165555660	1227723520	1090515400	1139033245	5
Tetrachloro-m-xylene		1433727050	1435859520	1533424440	1590932200	1344174400	1467623522	7
Aroclor-1242-1	(1)	38359202	40766156	41566668	47963164	43620760	42455190	9
Aroclor-1242-2	(2)	56757612	55666953	60328714	62664932	52294440	57542530	7
Aroclor-1242-3	(3)	34692482	36785992	38528310	46539712	33080140	37925327	14
Aroclor-1242-4	(4)	28738709	28291829	32018112	32372976	27652280	29814781	7
Aroclor-1242-5	(5)	32588629	32785485	35429746	39255208	36117200	35235254	8
Decachlorobiphenyl		1021050090	1049520227	1099648880	1125224680	979176800	1054924135	6
Tetrachloro-m-xylene		1392047690	1350066600	1467421460	1456806320	1242599600	1381788334	7
Aroclor-1248-1	(1)	29585124	31433301	32559076	36305496	33667780	32710155	8
Aroclor-1248-2	(2)	39473771	42013749	42864276	46958912	39450360	42152214	7
Aroclor-1248-3	(3)	43926772	44170904	46948106	50004072	40811360	45172243	8
Aroclor-1248-4	(4)	53918087	55655911	58640506	66304332	60297700	58963307	8
Aroclor-1248-5	(5)	51833391	52919351	56894804	67563228	56719440	57186043	11
Decachlorobiphenyl		1044729320	1067835560	1119982260	1186291160	1031748600	1090117380	6
Tetrachloro-m-xylene		1393266240	1426265507	1481945040	1527838200	1310175600	1427898117	6
Aroclor-1254-1	(1)	51156577	57570420	60622162	67008468	47144000	56700325	14
Aroclor-1254-2	(2)	78872042	81254612	86985854	93340172	97974740	87685484	9
Aroclor-1254-3	(3)	79973406	82322503	87641586	92940192	102754200	89126377	10
Aroclor-1254-4	(4)	66856800	68050653	73453394	76814612	87380160	74511124	11
Aroclor-1254-5	(5)	65315189	68448207	69620926	72356948	60070200	67162294	7
Decachlorobiphenyl		1075591380	1094765307	1221801800	1207489520	1097348200	1139399241	6
Tetrachloro-m-xylene		1443804100	1475957520	1555264320	1605313440	1392239200	1494515716	6
Aroclor-1268-1	(1)	188433469	184749517	193628348	206851508	186804180	192093404	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	162697797	159627413	168307400	177293676	160000200	165585297	4
Aroclor-1268-3	(3)	141621356	137143849	145386650	153273656	140094780	143504058	4
Aroclor-1268-4	(4)	63392961	60284985	64357574	66970196	60240320	63049207	5
Aroclor-1268-5	(5)	414016384	401287087	418333378	444189832	401775920	415920520	4
Decachlorobiphenyl		1839528480	1828279133	1916502300	2031355480	1847859400	1892704959	4
Tetrachloro-m-xylene		1501238100	1376017987	1532711540	1621137720	1417123400	1489645749	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	29885830	30191223	33586918	36186236	37142680	33398577	10
Aroclor-1016-2	(2)	42247324	42370143	46984138	50510676	50858960	46594248	9
Aroclor-1016-3	(3)	23325129	22666977	25816242	27757500	25596220	25032414	8
Aroclor-1016-4	(4)	18421261	17991491	20585360	22152124	21203180	20070683	9
Aroclor-1016-5	(5)	23822938	23028484	26536406	28616852	27728040	25946544	9
Aroclor-1260-1	(1)	44977992	45171227	49550340	56779968	51216800	49539265	10
Aroclor-1260-2	(2)	59688698	59926561	64720792	71640216	71124240	65420101	9
Aroclor-1260-3	(3)	52251359	51461445	57261004	62988144	77648420	60322074	18
Aroclor-1260-4	(4)	44361395	45109507	48615116	51524344	54726600	48867392	9
Aroclor-1260-5	(5)	111484150	113477796	119592622	125243744	126075940	119174850	6
Decachlorobiphenyl		984571270	1029317907	1118262220	1135932120	1152437600	1084104223	7
Tetrachloro-m-xylene		879784240	907640400	952717360	1058760600	981262000	956032920	7
Aroclor-1242-1	(1)	25489035	24475017	27848416	27117444	28407820	26667546	6
Aroclor-1242-2	(2)	35977820	35199769	38539928	39076044	37212540	37201220	4
Aroclor-1242-3	(3)	19863858	18273261	20997152	20082888	19211500	19685732	5
Aroclor-1242-4	(4)	18777771	17922656	19968364	21100536	20505160	19654897	7
Aroclor-1242-5	(5)	24360224	22407967	26366090	27368000	23855560	24871568	8
Decachlorobiphenyl		899284040	984619373	1017502000	1027377360	962336000	978223755	5
Tetrachloro-m-xylene		920809800	854904253	959106780	929536920	894966400	911864831	4
Aroclor-1248-1	(1)	19339318	20312839	22158310	22596092	21441940	21169700	6
Aroclor-1248-2	(2)	25841628	26874321	28982946	30984640	28578600	28252427	7
Aroclor-1248-3	(3)	26866525	28025000	30088164	32810700	30987640	29755606	8
Aroclor-1248-4	(4)	31739244	33065895	35285822	36808472	38827540	35145395	8
Aroclor-1248-5	(5)	32923317	34190145	36090288	38291344	39345240	36168067	7
Decachlorobiphenyl		999826530	1002616133	1003875200	1054961080	1165261200	1045308029	7
Tetrachloro-m-xylene		903111320	931293867	957405100	986258320	972075400	950028801	3
Aroclor-1254-1	(1)	50279933	51640439	55752488	60013056	55160920	54569367	7
Aroclor-1254-2	(2)	44271421	45567105	49578352	53549416	50761380	48745535	8
Aroclor-1254-3	(3)	70979950	72598121	78881282	84287020	72336540	75816583	7
Aroclor-1254-4	(4)	50771725	50149405	54249580	57298592	44830820	51460024	9
Aroclor-1254-5	(5)	64408865	66088107	72696700	75630908	59021560	67569228	10
Decachlorobiphenyl		963124600	1013018133	1145558760	1245512000	1148271200	1103096939	10
Tetrachloro-m-xylene		957176240	952284093	991535260	1081903280	978837400	992347255	5
Aroclor-1268-1	(1)	160284327	157759444	159569126	170516088	180615940	165748985	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	139528496	137224495	137304354	146542344	164608100	145041558	8
Aroclor-1268-3	(3)	118669811	115934707	120470364	129761704	127485360	122464389	5
Aroclor-1268-4	(4)	50956768	50155827	52914114	57814536	54084040	53185057	6
Aroclor-1268-5	(5)	345492428	353062379	344150492	366619864	366772500	355219533	3
Decachlorobiphenyl		1574839450	1670989493	1686779340	1791292760	1882315600	1721243329	7
Tetrachloro-m-xylene		969499550	855552893	995885280	1076293640	1034726400	986391553	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.73	4.63	4.83	18915900
		2	4.81	4.71	4.91	14591600
		3	4.89	4.79	4.99	43158200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.89	4.79	4.99	32884000
		2	5.42	5.32	5.52	16260200
		3	5.70	5.60	5.80	34867200
		4	5.86	5.76	5.96	17799400
		5	5.95	5.85	6.05	12607200
Aroclor-1262	500	1	8.11	8.01	8.21	80729000
		2	8.43	8.33	8.53	161087000
		3	8.75	8.65	8.85	110612000
		4	8.84	8.74	8.94	83914000
		5	9.49	9.39	9.59	58804600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.04	3.94	4.14	13421200
		2	4.13	4.03	4.23	10166200
		3	4.21	4.11	4.31	30359600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.21	4.11	4.31	22742000
		2	4.94	4.84	5.04	22833200
		3	5.12	5.02	5.22	12024000
		4	5.20	5.10	5.30	10865300
		5	5.37	5.27	5.47	11305400
Aroclor-1262	500	1	6.97	6.87	7.07	83475400
		2	7.23	7.13	7.33	66291000
		3	7.75	7.65	7.85	60580400
		4	7.81	7.71	7.91	105474000
		5	8.32	8.22	8.42	51930200

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/06/2025 **Initial Calibration Date(s):** 02/20/2025 02/21/2025

Continuing Calib Time: 16:11 **Initial Calibration Time(s):** 16:46 01:02

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-2	(2)	4.81	4.81	4.71	4.91	0.00
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.01
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/06/2025 **Initial Calibration Date(s):** 02/20/2025 02/21/2025

Continuing Calib Time: 16:11 **Initial Calibration Time(s):** 16:46 01:02

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)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.97	4.97	4.87	5.07	0.00
Aroclor-1016-4	(4)	5.02	5.01	4.91	5.11	0.00
Aroclor-1016-5	(5)	5.23	5.23	5.13	5.33	0.00
Aroclor-1260-1	(1)	6.26	6.26	6.16	6.36	0.00
Aroclor-1260-2	(2)	6.45	6.45	6.35	6.55	0.00
Aroclor-1260-3	(3)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.32	7.31	7.21	7.41	-0.01
Tetrachloro-m-xylene		3.70	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/20/2025 02/20/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO109662.D **Time Analyzed:** 16:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.791	4.691	4.891	484.120	500.000	-3.2
Aroclor-1016-2	4.810	4.711	4.911	486.830	500.000	-2.6
Aroclor-1016-3	4.867	4.767	4.967	484.640	500.000	-3.1
Aroclor-1016-4	4.987	4.888	5.088	484.750	500.000	-3.1
Aroclor-1016-5	5.245	5.145	5.345	467.760	500.000	-6.4
Aroclor-1260-1	6.287	6.188	6.388	480.610	500.000	-3.9
Aroclor-1260-2	6.476	6.377	6.577	468.300	500.000	-6.3
Aroclor-1260-3	6.845	6.746	6.946	444.240	500.000	-11.2
Aroclor-1260-4	7.105	7.005	7.205	434.880	500.000	-13.0
Aroclor-1260-5	7.347	7.247	7.447	430.260	500.000	-13.9
Decachlorobiphenyl	8.756	8.657	8.857	39.220	50.000	-21.6
Tetrachloro-m-xylene	3.696	3.598	3.798	47.820	50.000	-4.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/20/2025 02/20/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO109662.D **Time Analyzed:** 16:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.778	4.678	4.878	536.050	500.000	7.2
Aroclor-1016-2	4.797	4.697	4.897	543.930	500.000	8.8
Aroclor-1016-3	4.973	4.872	5.072	540.440	500.000	8.1
Aroclor-1016-4	5.015	4.914	5.114	451.810	500.000	-9.6
Aroclor-1016-5	5.228	5.127	5.327	521.700	500.000	4.3
Aroclor-1260-1	6.261	6.161	6.361	512.490	500.000	2.5
Aroclor-1260-2	6.449	6.348	6.548	510.220	500.000	2.0
Aroclor-1260-3	6.603	6.502	6.702	498.850	500.000	-0.2
Aroclor-1260-4	7.074	6.974	7.174	483.020	500.000	-3.4
Aroclor-1260-5	7.315	7.214	7.414	492.120	500.000	-1.6
Decachlorobiphenyl	8.708	8.607	8.807	43.320	50.000	-13.4
Tetrachloro-m-xylene	3.695	3.594	3.794	53.270	50.000	6.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/06/2025 **Initial Calibration Date(s):** 02/20/2025 02/21/2025

Continuing Calib Time: 22:19 **Initial Calibration Time(s):** 16:46 01:02

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)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-2	(2)	4.81	4.81	4.71	4.91	0.00
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.01
Aroclor-1260-3	(3)	6.84	6.85	6.75	6.95	0.01
Aroclor-1260-4	(4)	7.10	7.11	7.01	7.21	0.01
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.01
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.75	8.76	8.66	8.86	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/06/2025 **Initial Calibration Date(s):** 02/20/2025 02/21/2025

Continuing Calib Time: 22:19 **Initial Calibration Time(s):** 16:46 01:02

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)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.97	4.97	4.87	5.07	0.00
Aroclor-1016-4	(4)	5.01	5.01	4.91	5.11	0.00
Aroclor-1016-5	(5)	5.23	5.23	5.13	5.33	0.00
Aroclor-1260-1	(1)	6.26	6.26	6.16	6.36	0.00
Aroclor-1260-2	(2)	6.45	6.45	6.35	6.55	0.00
Aroclor-1260-3	(3)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/20/2025 02/20/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO109677.D **Time Analyzed:** 22:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.790	4.691	4.891	516.410	500.000	3.3
Aroclor-1016-2	4.810	4.711	4.911	521.040	500.000	4.2
Aroclor-1016-3	4.866	4.767	4.967	516.800	500.000	3.4
Aroclor-1016-4	4.987	4.888	5.088	517.710	500.000	3.5
Aroclor-1016-5	5.244	5.145	5.345	489.290	500.000	-2.1
Aroclor-1260-1	6.286	6.188	6.388	524.710	500.000	4.9
Aroclor-1260-2	6.475	6.377	6.577	507.570	500.000	1.5
Aroclor-1260-3	6.843	6.746	6.946	485.990	500.000	-2.8
Aroclor-1260-4	7.104	7.005	7.205	479.350	500.000	-4.1
Aroclor-1260-5	7.345	7.247	7.447	481.100	500.000	-3.8
Decachlorobiphenyl	8.753	8.657	8.857	43.340	50.000	-13.3
Tetrachloro-m-xylene	3.696	3.598	3.798	50.660	50.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/20/2025 02/20/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO109677.D **Time Analyzed:** 22:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.777	4.678	4.878	553.190	500.000	10.6
Aroclor-1016-2	4.796	4.697	4.897	570.410	500.000	14.1
Aroclor-1016-3	4.972	4.872	5.072	563.990	500.000	12.8
Aroclor-1016-4	5.014	4.914	5.114	456.810	500.000	-8.6
Aroclor-1016-5	5.227	5.127	5.327	534.200	500.000	6.8
Aroclor-1260-1	6.260	6.161	6.361	551.440	500.000	10.3
Aroclor-1260-2	6.448	6.348	6.548	550.920	500.000	10.2
Aroclor-1260-3	6.601	6.502	6.702	533.730	500.000	6.7
Aroclor-1260-4	7.073	6.974	7.174	518.870	500.000	3.8
Aroclor-1260-5	7.314	7.214	7.414	533.180	500.000	6.6
Decachlorobiphenyl	8.707	8.607	8.807	46.160	50.000	-7.7
Tetrachloro-m-xylene	3.694	3.594	3.794	55.410	50.000	10.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 11:49 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.25	10.26	10.16	10.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 11:49 **Initial Calibration Time(s):** 14:59 22:17

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)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.15	5.16	5.06	5.26	0.01
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.22	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.46	7.47	7.37	7.57	0.01
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070259.D **Time Analyzed:** 11:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.581	5.781	474.860	500.000	-5.0
Aroclor-1016-2	5.700	5.602	5.802	491.780	500.000	-1.6
Aroclor-1016-3	5.763	5.665	5.865	489.540	500.000	-2.1
Aroclor-1016-4	5.860	5.762	5.962	496.730	500.000	-0.7
Aroclor-1016-5	6.153	6.056	6.256	483.820	500.000	-3.2
Aroclor-1260-1	7.273	7.175	7.375	482.320	500.000	-3.5
Aroclor-1260-2	7.527	7.429	7.629	455.430	500.000	-8.9
Aroclor-1260-3	7.885	7.788	7.988	488.800	500.000	-2.2
Aroclor-1260-4	8.110	8.012	8.212	479.200	500.000	-4.2
Aroclor-1260-5	8.430	8.333	8.533	484.960	500.000	-3.0
Decachlorobiphenyl	10.253	10.156	10.356	47.630	50.000	-4.7
Tetrachloro-m-xylene	4.526	4.427	4.627	52.370	50.000	4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070259.D **Time Analyzed:** 11:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.917	4.820	5.020	513.670	500.000	2.7
Aroclor-1016-2	4.936	4.839	5.039	509.760	500.000	2.0
Aroclor-1016-3	5.113	5.017	5.217	518.780	500.000	3.8
Aroclor-1016-4	5.154	5.058	5.258	507.120	500.000	1.4
Aroclor-1016-5	5.370	5.273	5.473	534.650	500.000	6.9
Aroclor-1260-1	6.407	6.312	6.512	493.320	500.000	-1.3
Aroclor-1260-2	6.596	6.500	6.700	502.660	500.000	0.5
Aroclor-1260-3	6.750	6.654	6.854	468.200	500.000	-6.4
Aroclor-1260-4	7.222	7.126	7.326	524.080	500.000	4.8
Aroclor-1260-5	7.463	7.367	7.567	533.970	500.000	6.8
Decachlorobiphenyl	8.882	8.788	8.988	48.820	50.000	-2.4
Tetrachloro-m-xylene	3.828	3.730	3.930	51.480	50.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 18:13 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.25	10.26	10.16	10.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 18:13 **Initial Calibration Time(s):** 14:59 22:17

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)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.22	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.46	7.47	7.37	7.57	0.01
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL04 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070274.D **Time Analyzed:** 18:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.581	5.781	519.700	500.000	3.9
Aroclor-1016-2	5.701	5.602	5.802	539.100	500.000	7.8
Aroclor-1016-3	5.763	5.665	5.865	538.430	500.000	7.7
Aroclor-1016-4	5.860	5.762	5.962	548.080	500.000	9.6
Aroclor-1016-5	6.154	6.056	6.256	519.480	500.000	3.9
Aroclor-1260-1	7.274	7.175	7.375	514.400	500.000	2.9
Aroclor-1260-2	7.527	7.429	7.629	499.540	500.000	-0.1
Aroclor-1260-3	7.886	7.788	7.988	529.380	500.000	5.9
Aroclor-1260-4	8.110	8.012	8.212	505.520	500.000	1.1
Aroclor-1260-5	8.431	8.333	8.533	525.530	500.000	5.1
Decachlorobiphenyl	10.252	10.156	10.356	50.370	50.000	0.7
Tetrachloro-m-xylene	4.526	4.427	4.627	55.610	50.000	11.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL04 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070274.D **Time Analyzed:** 18:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.917	4.820	5.020	528.080	500.000	5.6
Aroclor-1016-2	4.936	4.839	5.039	524.790	500.000	5.0
Aroclor-1016-3	5.113	5.017	5.217	536.640	500.000	7.3
Aroclor-1016-4	5.155	5.058	5.258	534.000	500.000	6.8
Aroclor-1016-5	5.370	5.273	5.473	553.470	500.000	10.7
Aroclor-1260-1	6.408	6.312	6.512	510.260	500.000	2.1
Aroclor-1260-2	6.596	6.500	6.700	514.490	500.000	2.9
Aroclor-1260-3	6.750	6.654	6.854	485.590	500.000	-2.9
Aroclor-1260-4	7.223	7.126	7.326	541.710	500.000	8.3
Aroclor-1260-5	7.464	7.367	7.567	564.500	500.000	12.9
Decachlorobiphenyl	8.883	8.788	8.988	50.840	50.000	1.7
Tetrachloro-m-xylene	3.828	3.730	3.930	52.730	50.000	5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 22:50 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.28	7.28	7.18	7.38	0.00
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 22:50 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL05 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070289.D **Time Analyzed:** 22:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.681	5.581	5.781	507.650	500.000	1.5
Aroclor-1016-2	5.702	5.602	5.802	514.280	500.000	2.9
Aroclor-1016-3	5.764	5.665	5.865	501.590	500.000	0.3
Aroclor-1016-4	5.862	5.762	5.962	507.010	500.000	1.4
Aroclor-1016-5	6.155	6.056	6.256	518.280	500.000	3.7
Aroclor-1260-1	7.275	7.175	7.375	532.180	500.000	6.4
Aroclor-1260-2	7.529	7.429	7.629	505.610	500.000	1.1
Aroclor-1260-3	7.888	7.788	7.988	546.130	500.000	9.2
Aroclor-1260-4	8.113	8.012	8.212	525.010	500.000	5.0
Aroclor-1260-5	8.433	8.333	8.533	541.570	500.000	8.3
Decachlorobiphenyl	10.258	10.156	10.356	51.680	50.000	3.4
Tetrachloro-m-xylene	4.527	4.427	4.627	55.950	50.000	11.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL05 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070289.D **Time Analyzed:** 22:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.919	4.820	5.020	536.170	500.000	7.2
Aroclor-1016-2	4.938	4.839	5.039	532.730	500.000	6.5
Aroclor-1016-3	5.115	5.017	5.217	542.770	500.000	8.6
Aroclor-1016-4	5.157	5.058	5.258	529.850	500.000	6.0
Aroclor-1016-5	5.372	5.273	5.473	573.280	500.000	14.7
Aroclor-1260-1	6.410	6.312	6.512	516.300	500.000	3.3
Aroclor-1260-2	6.598	6.500	6.700	527.370	500.000	5.5
Aroclor-1260-3	6.752	6.654	6.854	498.350	500.000	-0.3
Aroclor-1260-4	7.225	7.126	7.326	567.590	500.000	13.5
Aroclor-1260-5	7.466	7.367	7.567	585.700	500.000	17.1
Decachlorobiphenyl	8.886	8.788	8.988	52.490	50.000	5.0
Tetrachloro-m-xylene	3.830	3.730	3.930	52.590	50.000	5.2

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

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/20/2025 02/20/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/20/2025	16:28	PO109425.D	8.76	3.70
AR1660ICC1000	AR1660ICC1000	02/20/2025	16:46	PO109426.D	8.76	3.70
AR1660ICC750	AR1660ICC750	02/20/2025	17:04	PO109427.D	8.76	3.70
AR1660ICC500	AR1660ICC500	02/20/2025	17:23	PO109428.D	8.76	3.70
AR1660ICC250	AR1660ICC250	02/20/2025	17:41	PO109429.D	8.76	3.70
AR1660ICC050	AR1660ICC050	02/20/2025	17:59	PO109430.D	8.76	3.70
AR1221ICC500	AR1221ICC500	02/20/2025	18:18	PO109431.D	8.76	3.70
AR1232ICC500	AR1232ICC500	02/20/2025	18:36	PO109432.D	8.76	3.70
AR1242ICC1000	AR1242ICC1000	02/20/2025	18:55	PO109433.D	8.76	3.70
AR1242ICC750	AR1242ICC750	02/20/2025	19:13	PO109434.D	8.76	3.70
AR1242ICC500	AR1242ICC500	02/20/2025	19:31	PO109435.D	8.76	3.70
AR1242ICC250	AR1242ICC250	02/20/2025	19:50	PO109436.D	8.76	3.70
AR1242ICC050	AR1242ICC050	02/20/2025	20:08	PO109437.D	8.76	3.70
AR1248ICC1000	AR1248ICC1000	02/20/2025	20:26	PO109438.D	8.76	3.70
AR1248ICC750	AR1248ICC750	02/20/2025	20:45	PO109439.D	8.76	3.70
AR1248ICC500	AR1248ICC500	02/20/2025	21:03	PO109440.D	8.76	3.70
AR1248ICC250	AR1248ICC250	02/20/2025	21:21	PO109441.D	8.76	3.70
AR1248ICC050	AR1248ICC050	02/20/2025	21:40	PO109442.D	8.75	3.70
AR1254ICC1000	AR1254ICC1000	02/20/2025	21:58	PO109443.D	8.75	3.70
AR1254ICC750	AR1254ICC750	02/20/2025	22:17	PO109444.D	8.76	3.70
AR1254ICC500	AR1254ICC500	02/20/2025	22:35	PO109445.D	8.76	3.70
AR1254ICC250	AR1254ICC250	02/20/2025	22:53	PO109446.D	8.76	3.70
AR1254ICC050	AR1254ICC050	02/20/2025	23:12	PO109447.D	8.76	3.70
AR1262ICC500	AR1262ICC500	02/20/2025	23:30	PO109448.D	8.75	3.70
AR1268ICC1000	AR1268ICC1000	02/20/2025	23:48	PO109449.D	8.76	3.70
AR1268ICC750	AR1268ICC750	02/21/2025	00:07	PO109450.D	8.76	3.70
AR1268ICC500	AR1268ICC500	02/21/2025	00:25	PO109451.D	8.75	3.70
AR1268ICC250	AR1268ICC250	02/21/2025	00:43	PO109452.D	8.76	3.70
AR1268ICC050	AR1268ICC050	02/21/2025	01:02	PO109453.D	8.75	3.70
AR1660CCC500	AR1660CCC500	03/06/2025	16:11	PO109662.D	8.76	3.70
I.BLK	I.BLK	03/06/2025	18:01	PO109666.D	8.76	3.70
PB167009BL	PB167009BL	03/06/2025	18:19	PO109667.D	8.76	3.70
PB167009BS	PB167009BS	03/06/2025	18:38	PO109668.D	8.76	3.70
PB167009BSD	PB167009BSD	03/06/2025	18:56	PO109669.D	8.75	3.70
ENV-102-GW01	Q1488-13	03/06/2025	19:15	PO109670.D	8.76	3.70
ENV-104-GW01	Q1488-14	03/06/2025	19:33	PO109671.D	8.76	3.70
AR1660CCC500	AR1660CCC500	03/06/2025	22:19	PO109677.D	8.75	3.70
I.BLK	I.BLK	03/07/2025	00:09	PO109681.D	8.76	3.70
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	10.25	4.53
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	10.25	4.52
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	10.26	4.53
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	10.26	4.53

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Analytical Sequence

AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	10.25	4.52
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	10.26	4.53
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	10.25	4.52
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	10.26	4.53
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	10.26	4.53
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	10.25	4.52
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	10.26	4.53
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	10.25	4.53
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	10.26	4.53
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	10.26	4.53
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	10.26	4.53
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	10.26	4.53
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	10.26	4.53
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	10.25	4.52
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	10.26	4.53
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	10.25	4.52
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	10.26	4.53
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	10.26	4.53
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	10.26	4.52
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	10.25	4.53
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	10.25	4.52
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	10.25	4.53
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	10.26	4.53
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	10.25	4.52
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	11:49	PP070259.D	10.25	4.53
I.BLK	I.BLK	03/05/2025	12:54	PP070263.D	10.25	4.52
PB166985BL	PB166985BL	03/05/2025	14:58	PP070264.D	10.26	4.53
PB166985BS	PB166985BS	03/05/2025	15:14	PP070265.D	10.26	4.53
ENV-101-SB01	Q1488-01	03/05/2025	17:08	PP070272.D	10.25	4.52
ENV-101-SB02	Q1488-03	03/05/2025	17:25	PP070273.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	18:13	PP070274.D	10.25	4.53
I.BLK	I.BLK	03/05/2025	19:19	PP070278.D	10.26	4.53
ENV-101-SB02MS	Q1488-03MS	03/05/2025	19:35	PP070279.D	10.26	4.53
ENV-101-SB02MSD	Q1488-03MSD	03/05/2025	19:51	PP070280.D	10.26	4.53
ENV-102-SB01	Q1488-05	03/05/2025	20:08	PP070281.D	10.26	4.53
ENV-102-SB02	Q1488-07	03/05/2025	20:24	PP070282.D	10.26	4.53
ENV-104-SB01	Q1488-09	03/05/2025	20:40	PP070283.D	10.26	4.53
ENV-104-SB02	Q1488-11	03/05/2025	20:56	PP070284.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	22:50	PP070289.D	10.26	4.53
I.BLK	I.BLK	03/05/2025	23:56	PP070293.D	10.26	4.52

Alliance TECHNICAL GROUP
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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/20/2025 02/20/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/20/2025	16:28	PO109425.D	8.71	3.69
AR1660ICC1000	AR1660ICC1000	02/20/2025	16:46	PO109426.D	8.71	3.69
AR1660ICC750	AR1660ICC750	02/20/2025	17:04	PO109427.D	8.71	3.69
AR1660ICC500	AR1660ICC500	02/20/2025	17:23	PO109428.D	8.71	3.69
AR1660ICC250	AR1660ICC250	02/20/2025	17:41	PO109429.D	8.71	3.69
AR1660ICC050	AR1660ICC050	02/20/2025	17:59	PO109430.D	8.71	3.69
AR1221ICC500	AR1221ICC500	02/20/2025	18:18	PO109431.D	8.71	3.69
AR1232ICC500	AR1232ICC500	02/20/2025	18:36	PO109432.D	8.71	3.69
AR1242ICC1000	AR1242ICC1000	02/20/2025	18:55	PO109433.D	8.71	3.69
AR1242ICC750	AR1242ICC750	02/20/2025	19:13	PO109434.D	8.71	3.69
AR1242ICC500	AR1242ICC500	02/20/2025	19:31	PO109435.D	8.71	3.69
AR1242ICC250	AR1242ICC250	02/20/2025	19:50	PO109436.D	8.71	3.69
AR1242ICC050	AR1242ICC050	02/20/2025	20:08	PO109437.D	8.71	3.69
AR1248ICC1000	AR1248ICC1000	02/20/2025	20:26	PO109438.D	8.71	3.69
AR1248ICC750	AR1248ICC750	02/20/2025	20:45	PO109439.D	8.71	3.69
AR1248ICC500	AR1248ICC500	02/20/2025	21:03	PO109440.D	8.71	3.69
AR1248ICC250	AR1248ICC250	02/20/2025	21:21	PO109441.D	8.71	3.69
AR1248ICC050	AR1248ICC050	02/20/2025	21:40	PO109442.D	8.71	3.69
AR1254ICC1000	AR1254ICC1000	02/20/2025	21:58	PO109443.D	8.71	3.69
AR1254ICC750	AR1254ICC750	02/20/2025	22:17	PO109444.D	8.71	3.69
AR1254ICC500	AR1254ICC500	02/20/2025	22:35	PO109445.D	8.71	3.69
AR1254ICC250	AR1254ICC250	02/20/2025	22:53	PO109446.D	8.71	3.69
AR1254ICC050	AR1254ICC050	02/20/2025	23:12	PO109447.D	8.71	3.69
AR1262ICC500	AR1262ICC500	02/20/2025	23:30	PO109448.D	8.71	3.69
AR1268ICC1000	AR1268ICC1000	02/20/2025	23:48	PO109449.D	8.71	3.69
AR1268ICC750	AR1268ICC750	02/21/2025	00:07	PO109450.D	8.71	3.69
AR1268ICC500	AR1268ICC500	02/21/2025	00:25	PO109451.D	8.71	3.69
AR1268ICC250	AR1268ICC250	02/21/2025	00:43	PO109452.D	8.71	3.69
AR1268ICC050	AR1268ICC050	02/21/2025	01:02	PO109453.D	8.70	3.69
AR1660CCC500	AR1660CCC500	03/06/2025	16:11	PO109662.D	8.71	3.70
I.BLK	I.BLK	03/06/2025	18:01	PO109666.D	8.71	3.69
PB167009BL	PB167009BL	03/06/2025	18:19	PO109667.D	8.71	3.69
PB167009BS	PB167009BS	03/06/2025	18:38	PO109668.D	8.71	3.70
PB167009BSD	PB167009BSD	03/06/2025	18:56	PO109669.D	8.71	3.69
ENV-102-GW01	Q1488-13	03/06/2025	19:15	PO109670.D	8.71	3.70
ENV-104-GW01	Q1488-14	03/06/2025	19:33	PO109671.D	8.71	3.69
AR1660CCC500	AR1660CCC500	03/06/2025	22:19	PO109677.D	8.71	3.69
I.BLK	I.BLK	03/07/2025	00:09	PO109681.D	8.71	3.69
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	8.89	3.83
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	8.89	3.83
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	8.89	3.83
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	8.89	3.83

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Analytical Sequence

AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	8.89	3.83
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	8.89	3.83
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	8.89	3.83
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	8.89	3.83
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	8.89	3.83
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	8.89	3.83
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	8.89	3.83
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	8.89	3.83
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	8.89	3.83
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	8.89	3.83
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	8.89	3.83
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	8.89	3.83
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	8.89	3.83
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	8.89	3.83
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	8.89	3.83
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	8.89	3.83
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	8.89	3.83
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	8.89	3.83
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	8.89	3.83
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	8.89	3.83
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	8.89	3.83
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	8.89	3.83
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	8.89	3.83
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	8.89	3.83
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	8.89	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	11:49	PP070259.D	8.88	3.83
I.BLK	I.BLK	03/05/2025	12:54	PP070263.D	8.88	3.83
PB166985BL	PB166985BL	03/05/2025	14:58	PP070264.D	8.89	3.83
PB166985BS	PB166985BS	03/05/2025	15:14	PP070265.D	8.88	3.83
ENV-101-SB01	Q1488-01	03/05/2025	17:08	PP070272.D	8.88	3.83
ENV-101-SB02	Q1488-03	03/05/2025	17:25	PP070273.D	8.88	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	18:13	PP070274.D	8.88	3.83
I.BLK	I.BLK	03/05/2025	19:19	PP070278.D	8.88	3.83
ENV-101-SB02MS	Q1488-03MS	03/05/2025	19:35	PP070279.D	8.89	3.83
ENV-101-SB02MSD	Q1488-03MSD	03/05/2025	19:51	PP070280.D	8.88	3.83
ENV-102-SB01	Q1488-05	03/05/2025	20:08	PP070281.D	8.89	3.83
ENV-102-SB02	Q1488-07	03/05/2025	20:24	PP070282.D	8.89	3.83
ENV-104-SB01	Q1488-09	03/05/2025	20:40	PP070283.D	8.89	3.83
ENV-104-SB02	Q1488-11	03/05/2025	20:56	PP070284.D	8.89	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	22:50	PP070289.D	8.89	3.83
I.BLK	I.BLK	03/05/2025	23:56	PP070293.D	8.89	3.83

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB167009BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB167009BS Date(s) Analyzed: 03/06/2025 03/06/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO109668.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.791	4.741	4.841	4.78		
	2	4.811	4.761	4.861	4.81		
	3	4.867	4.817	4.917	4.74		
COLUMN 1	4	4.987	4.937	5.037	4.79		
	5	5.245	5.195	5.295	4.52	4.70	
	1	4.778	4.728	4.828	5.13		
	2	4.797	4.747	4.847	5.20		
	3	4.973	4.923	5.023	5.16		
	4	5.015	4.965	5.065	4.91		
COLUMN 2	5	5.228	5.178	5.278	4.84	5.00	6.19
Aroclor-1260	1	6.288	6.238	6.338	4.77		
	2	6.476	6.426	6.526	4.71		
	3	6.845	6.795	6.895	4.00		
COLUMN 1	4	7.105	7.055	7.155	4.16		
	5	7.347	7.297	7.397	4.32	4.40	
	1	6.261	6.211	6.311	5.09		
	2	6.449	6.399	6.499	5.12		
	3	6.602	6.552	6.652	5.11		
	4	7.074	7.024	7.124	4.37		
COLUMN 2	5	7.315	7.265	7.365	4.52	4.80	8.7

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB167009BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB167009BSD Date(s) Analyzed: 03/06/2025 03/06/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO109669.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.79	4.74	4.84	4.73		
	2	4.81	4.76	4.86	4.75		
	3	4.866	4.816	4.916	4.72		
COLUMN 1	4	4.987	4.937	5.037	4.73		
	5	5.245	5.195	5.295	4.46	4.70	
	1	4.777	4.727	4.827	5.11		
	2	4.797	4.747	4.847	5.09		
	3	4.972	4.922	5.022	5.11		
	4	5.014	4.964	5.064	4.84		
COLUMN 2	5	5.227	5.177	5.277	4.78	5.00	6.19
Aroclor-1260	1	6.287	6.237	6.337	4.73		
	2	6.475	6.425	6.525	4.70		
	3	6.844	6.794	6.894	3.92		
COLUMN 1	4	7.104	7.054	7.154	4.08		
	5	7.346	7.296	7.396	4.24	4.30	
	1	6.26	6.21	6.31	5.02		
	2	6.448	6.398	6.498	5.06		
	3	6.601	6.551	6.651	5.05		
	4	7.073	7.023	7.123	4.32		
COLUMN 2	5	7.313	7.263	7.363	4.44	4.80	10.99

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB166985BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB166985BS Date(s) Analyzed: 03/05/2025 03/05/2025

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 PP070265.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.68	5.63	5.73	162		
	2	5.702	5.652	5.752	170		
	3	5.764	5.714	5.814	165		
COLUMN 1	4	5.862	5.812	5.912	167		
	5	6.155	6.105	6.205	161	165	
	1	4.917	4.867	4.967	165		
	2	4.936	4.886	4.986	164		
	3	5.113	5.063	5.163	162		
	4	5.155	5.105	5.205	163		
COLUMN 2	5	5.37	5.32	5.42	163	163	1.22
Aroclor-1260	1	7.274	7.224	7.324	176		
	2	7.528	7.478	7.578	163		
	3	7.887	7.837	7.937	143		
COLUMN 1	4	8.111	8.061	8.161	149		
	5	8.433	8.383	8.483	149	156	
	1	6.408	6.358	6.458	165		
	2	6.595	6.545	6.645	166		
	3	6.749	6.699	6.799	157		
	4	7.222	7.172	7.272	156		
COLUMN 2	5	7.463	7.413	7.513	162	161	3.15

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

ENV-101-SB02MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: Q1488-03MS Date(s) Analyzed: 03/05/2025 03/05/2025

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 PP070279.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.678	5.628	5.728	181		
	2	5.7	5.65	5.75	191		
	3	5.762	5.712	5.812	184		
COLUMN 1	4	5.86	5.81	5.91	189		
	5	6.153	6.103	6.203	180	185	
	1	4.919	4.869	4.969	186		
	2	4.938	4.888	4.988	187		
	3	5.115	5.065	5.165	194		
	4	5.157	5.107	5.207	188		
COLUMN 2	5	5.372	5.322	5.422	187	188	1.61
Aroclor-1260	1	7.273	7.223	7.323	184		
	2	7.526	7.476	7.576	176		
	3	7.885	7.835	7.935	158		
COLUMN 1	4	8.11	8.06	8.16	167		
	5	8.431	8.381	8.481	160	169	
	1	6.41	6.36	6.46	182		
	2	6.598	6.548	6.648	182		
	3	6.752	6.702	6.802	171		
	4	7.224	7.174	7.274	165		
COLUMN 2	5	7.465	7.415	7.515	169	174	2.92

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

ENV-101-SB02MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: Q1488-03MSD Date(s) Analyzed: 03/05/2025 03/05/2025

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 PP070280.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.678	5.628	5.728	195		
	2	5.7	5.65	5.75	194		
	3	5.763	5.713	5.813	191		
COLUMN 1	4	5.86	5.81	5.91	197		
	5	6.153	6.103	6.203	190	193	
	1	4.916	4.866	4.966	191		
	2	4.935	4.885	4.985	190		
	3	5.113	5.063	5.163	195		
	4	5.154	5.104	5.204	190		
COLUMN 2	5	5.37	5.32	5.42	190	191	1.04
Aroclor-1260	1	7.273	7.223	7.323	192		
	2	7.527	7.477	7.577	184		
	3	7.886	7.836	7.936	165		
COLUMN 1	4	8.108	8.058	8.158	184		
	5	8.43	8.38	8.48	172	179	
	1	6.408	6.358	6.458	186		
	2	6.596	6.546	6.646	188		
	3	6.749	6.699	6.799	178		
	4	7.222	7.172	7.272	176		
COLUMN 2	5	7.463	7.413	7.513	186	183	2.21

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070272.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 17:08
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:25:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.524	3.829	36727633	24358169	25.025	25.478
2)	SA Decachlor...	10.253	8.883	22198318	22475039	19.489	20.731
	Target Compounds						

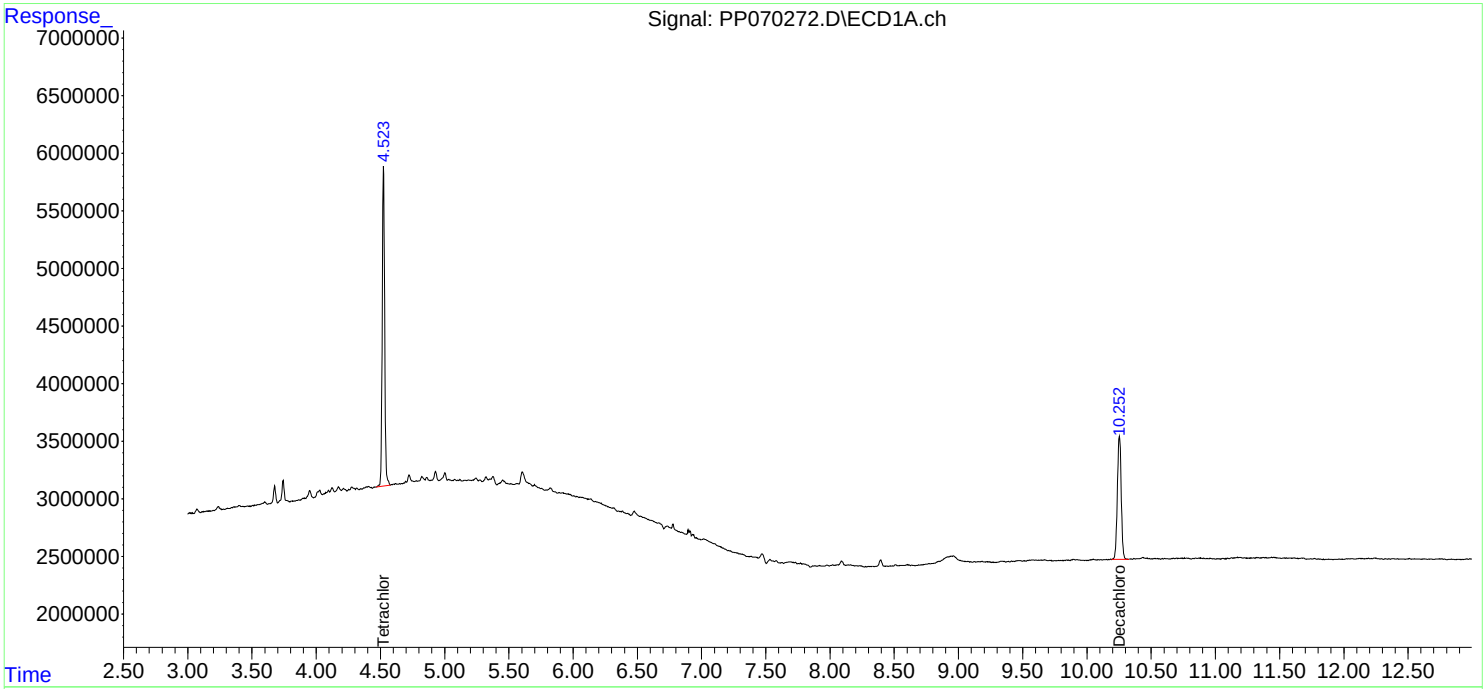
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

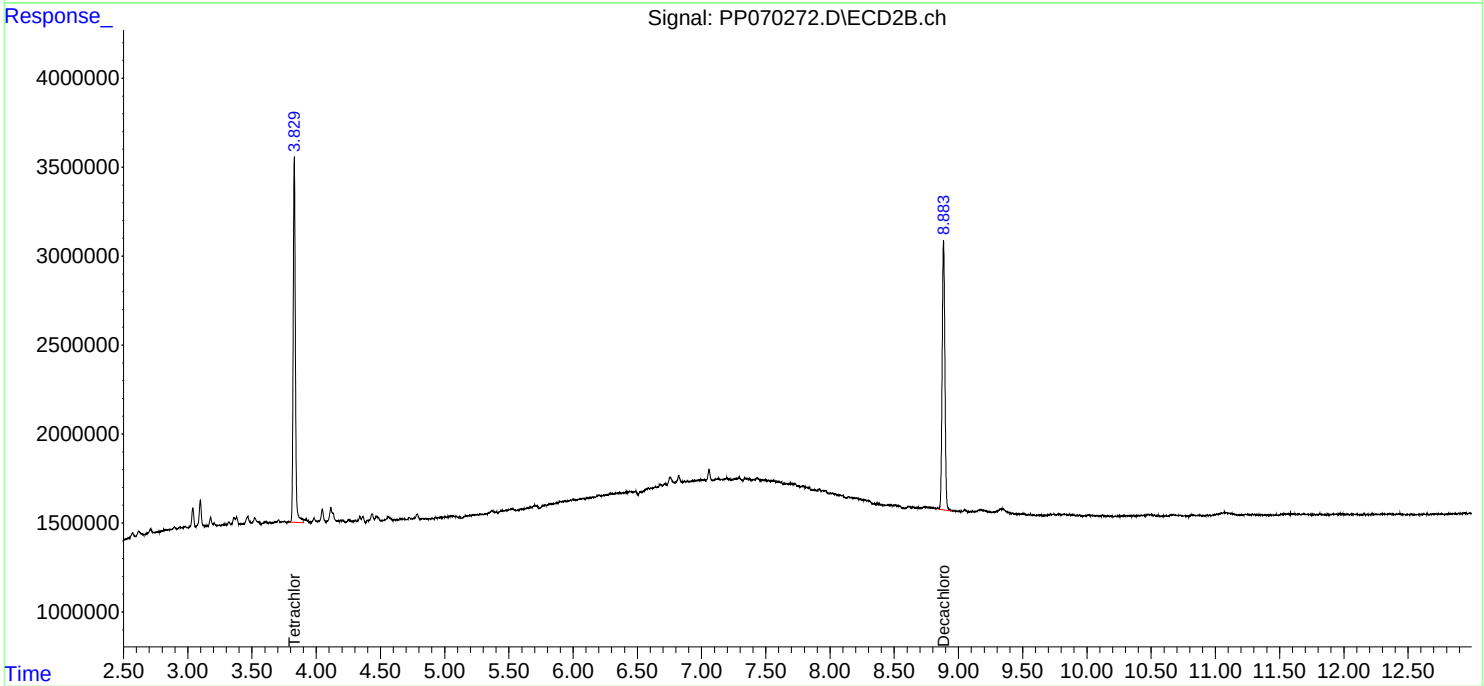
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070272.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 17:08
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

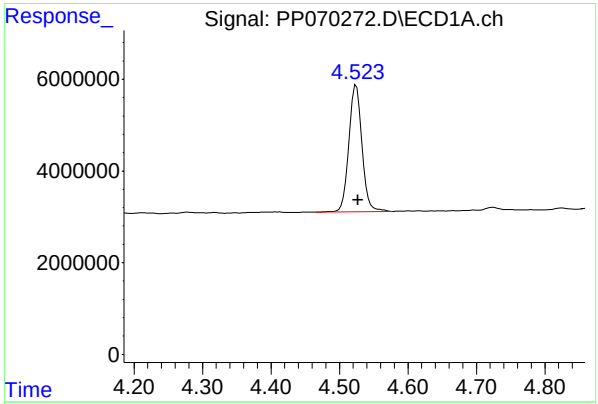
Instrument :
ECD_P
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:25:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



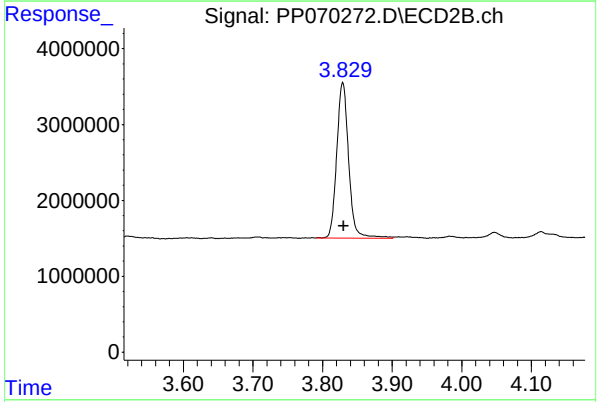




#1 Tetrachloro-m-xylene

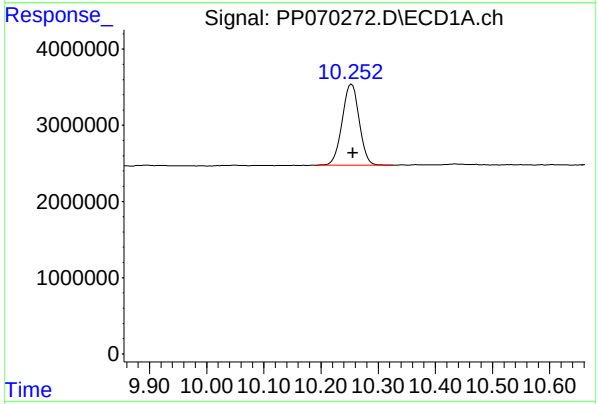
R.T.: 4.524 min
Delta R.T.: -0.003 min
Response: 36727633
Conc: 25.03 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB01



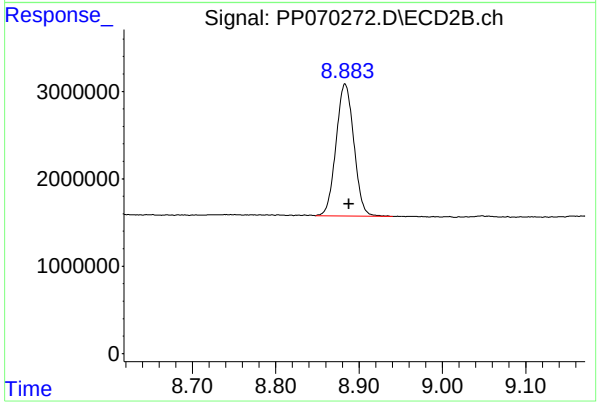
#1 Tetrachloro-m-xylene

R.T.: 3.829 min
Delta R.T.: -0.001 min
Response: 24358169
Conc: 25.48 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.253 min
Delta R.T.: -0.003 min
Response: 22198318
Conc: 19.49 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.883 min
Delta R.T.: -0.005 min
Response: 22475039
Conc: 20.73 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 17:25
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:25:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.527	3.828	39647428	26070312	27.015	27.269
2)	SA Decachlor...	10.256	8.884	25518204	24583751	22.403	22.677
	Target Compounds						

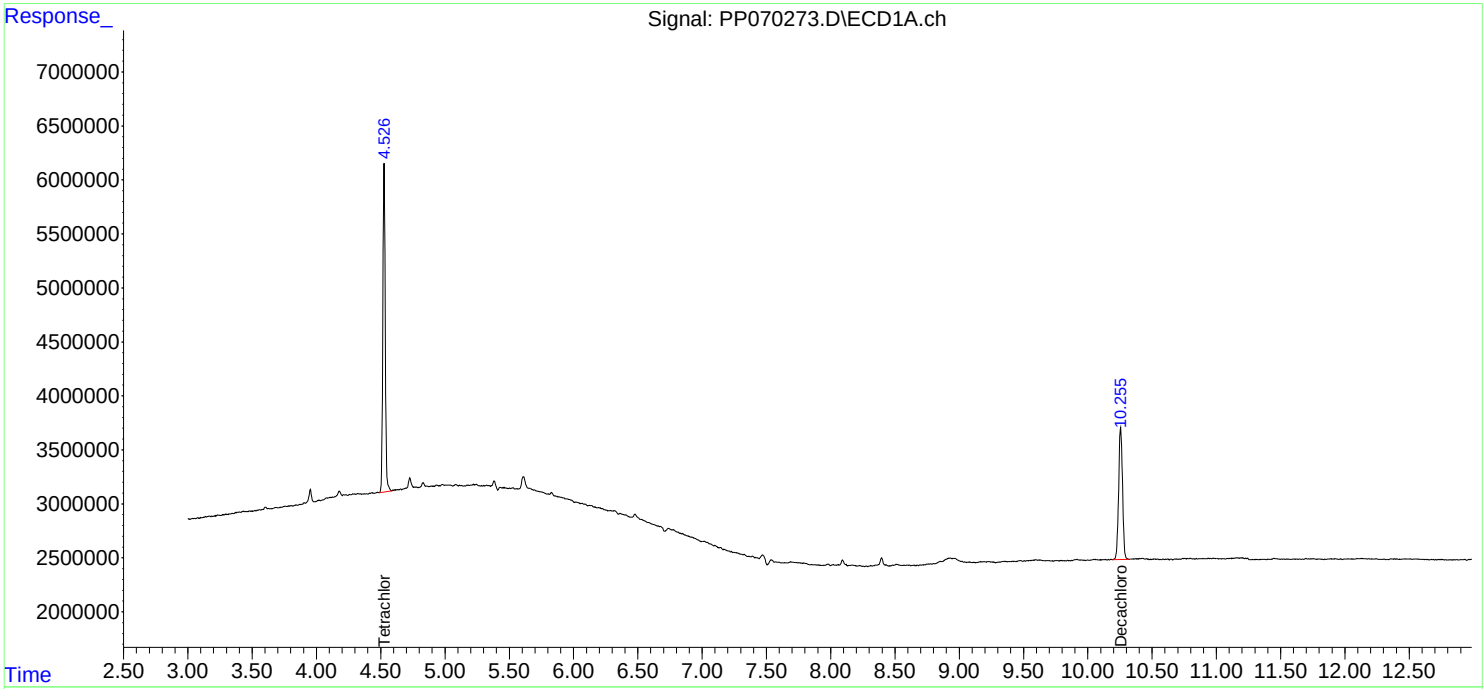
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

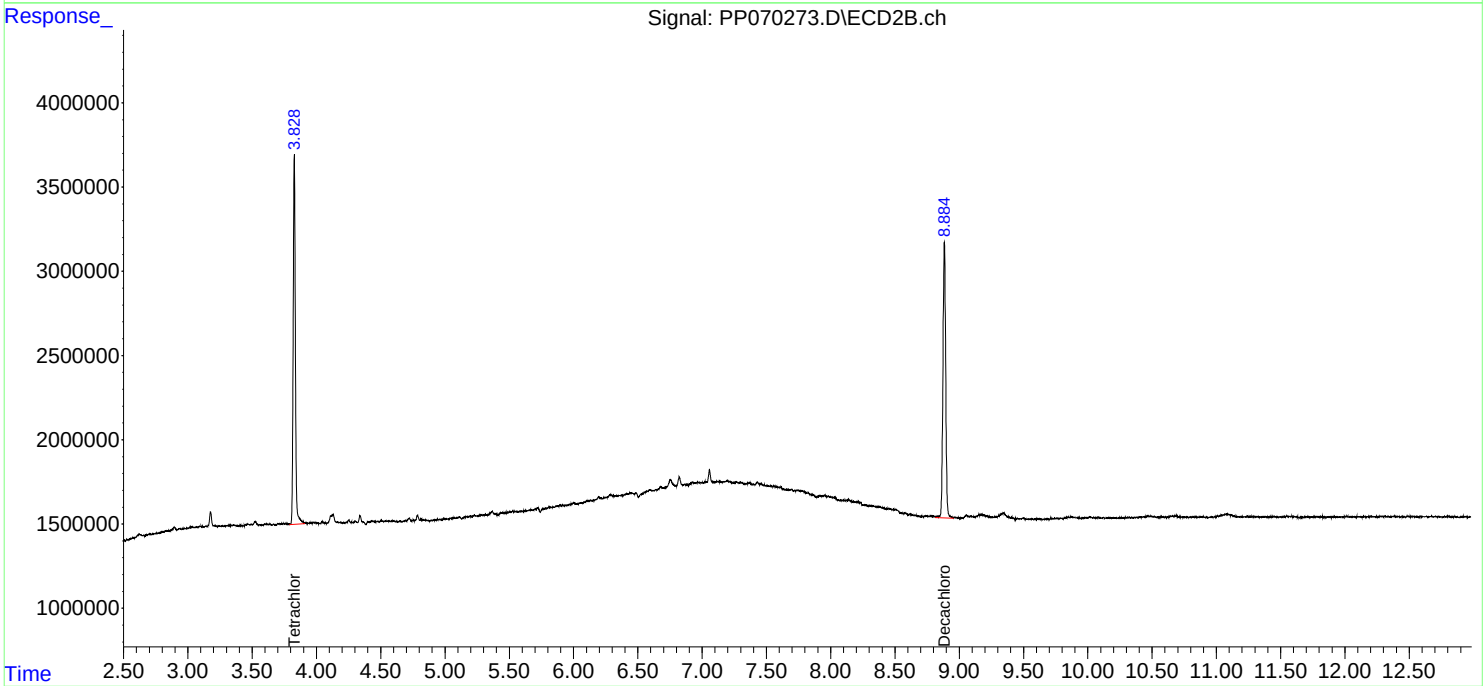
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 17:25
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

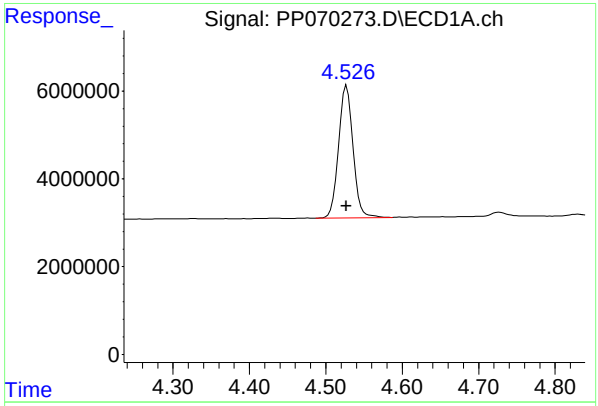
Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:25:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



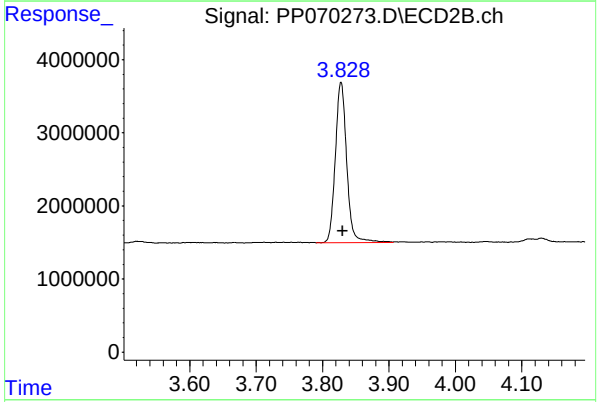




#1 Tetrachloro-m-xylene

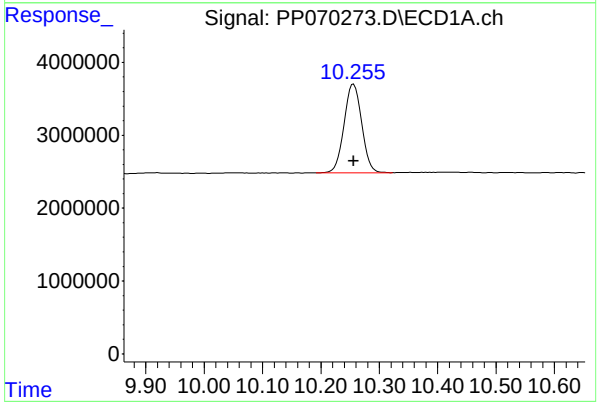
R.T.: 4.527 min
Delta R.T.: 0.000 min
Response: 39647428
Conc: 27.01 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02



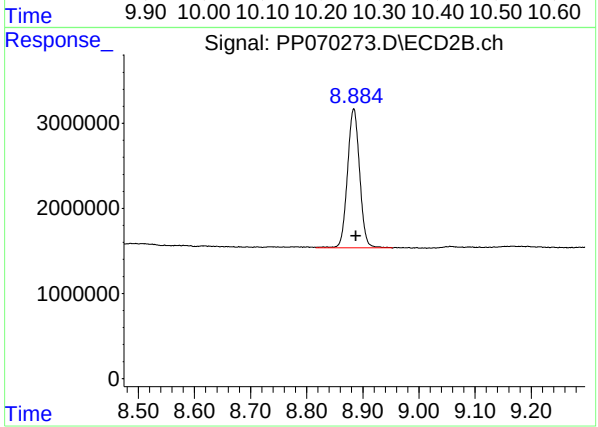
#1 Tetrachloro-m-xylene

R.T.: 3.828 min
Delta R.T.: -0.002 min
Response: 26070312
Conc: 27.27 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.256 min
Delta R.T.: 0.000 min
Response: 25518204
Conc: 22.40 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.884 min
Delta R.T.: -0.004 min
Response: 24583751
Conc: 22.68 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070281.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:08
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-102-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.529	3.830	37586940	24634284	25.611	25.767
2)	SA Decachlor...	10.260	8.886	23597311	24456260	20.717	22.559
	Target Compounds						

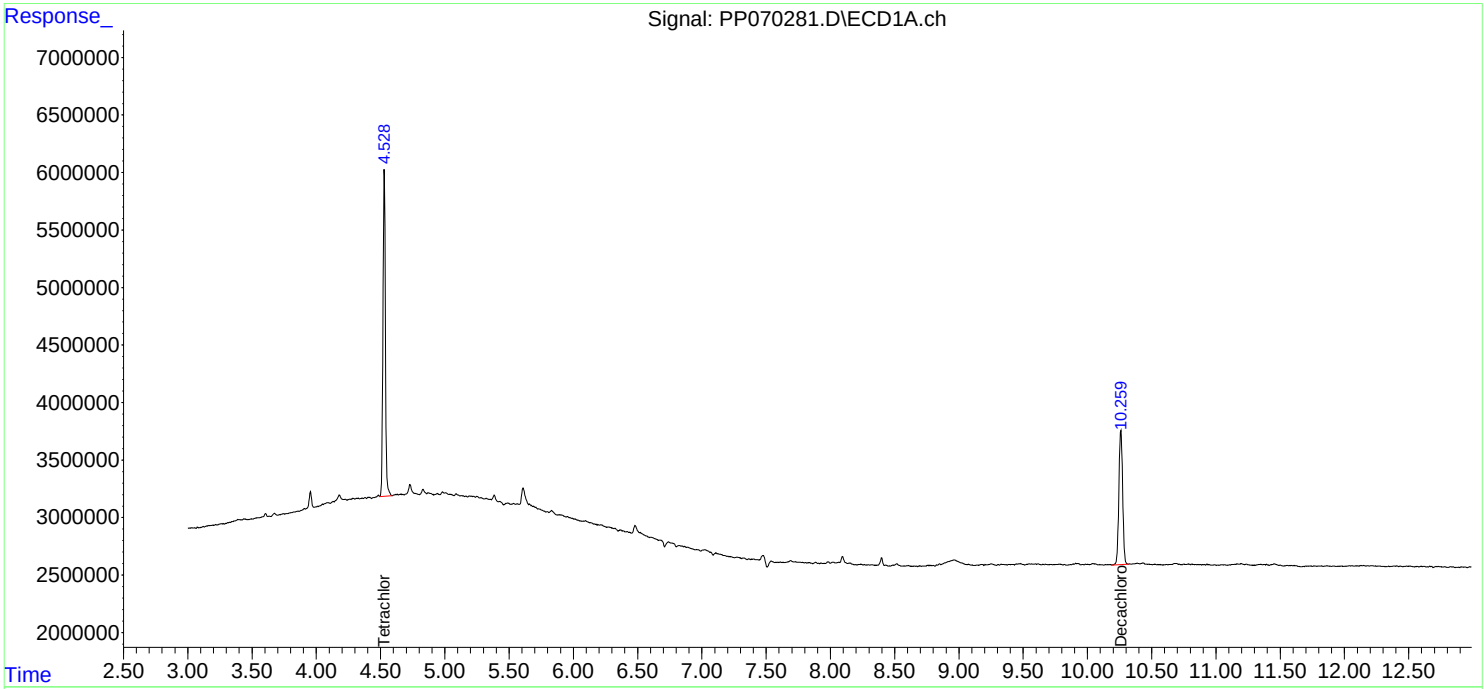
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

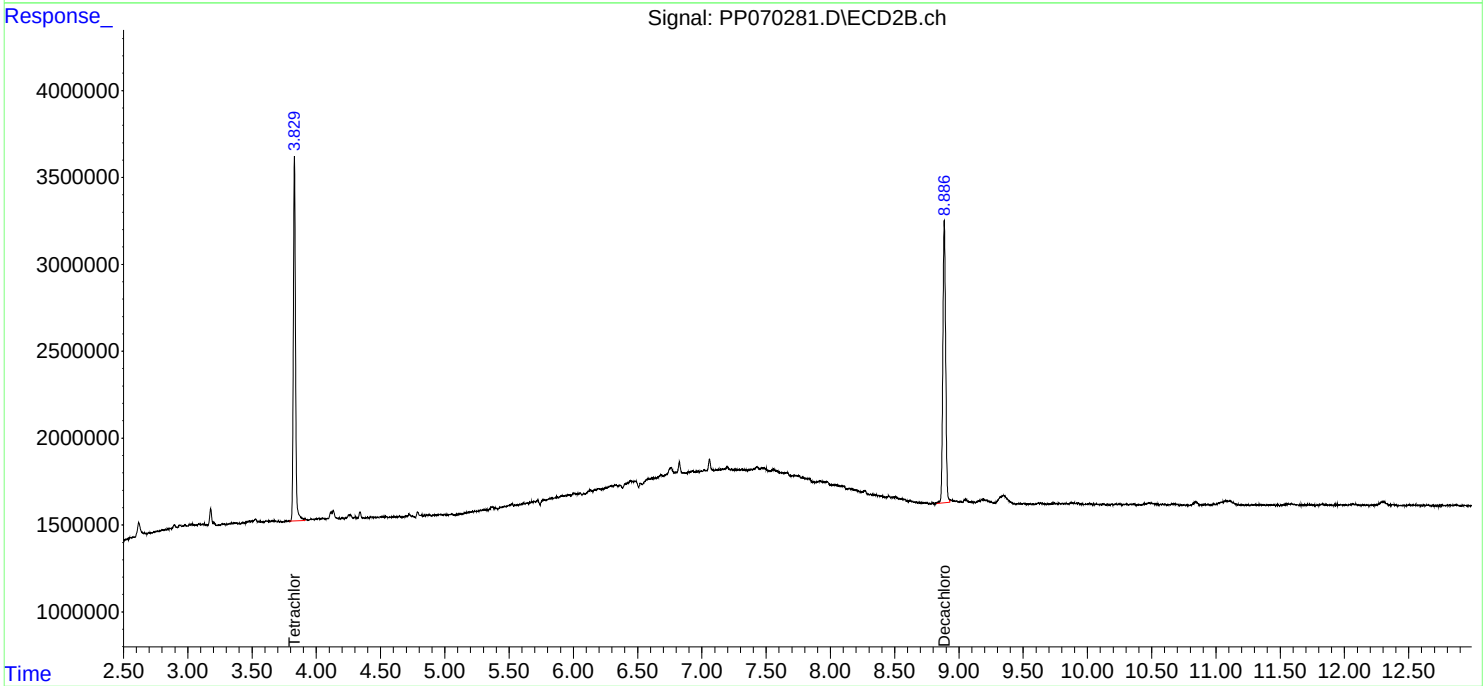
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070281.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:08
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

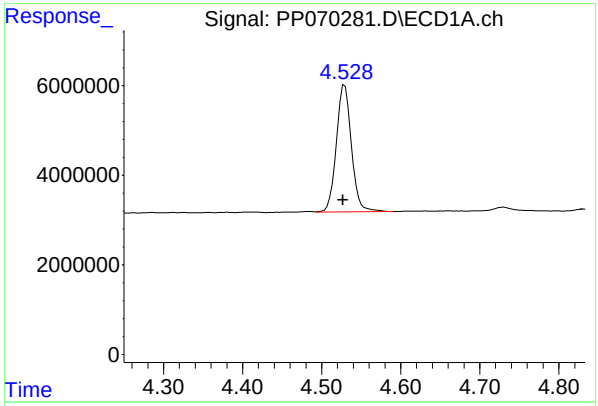
Instrument :
ECD_P
ClientSampleId :
ENV-102-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



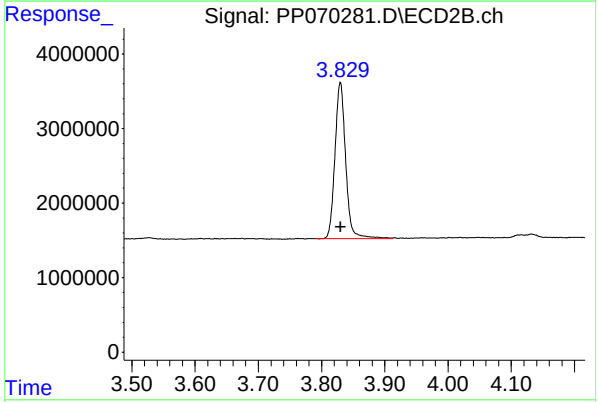




#1 Tetrachloro-m-xylene

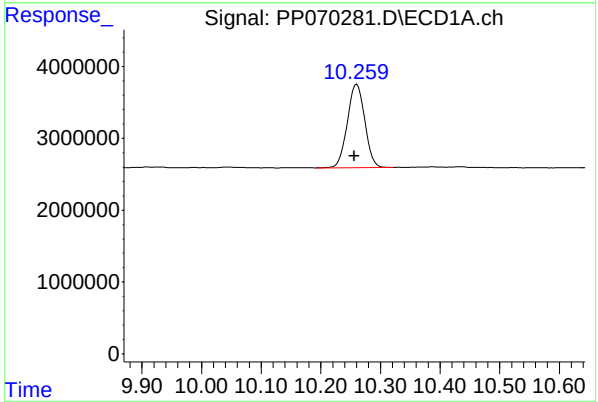
R.T.: 4.529 min
Delta R.T.: 0.002 min
Response: 37586940
Conc: 25.61 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-102-SB01



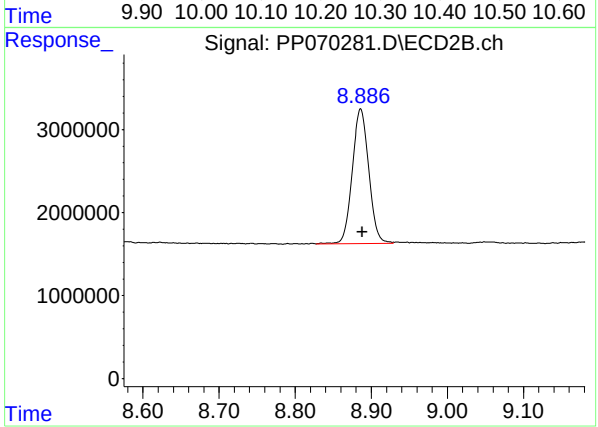
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 24634284
Conc: 25.77 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.260 min
Delta R.T.: 0.004 min
Response: 23597311
Conc: 20.72 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.886 min
Delta R.T.: -0.002 min
Response: 24456260
Conc: 22.56 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070282.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:24
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-102-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.828	36927538	23821357	25.161	24.917
2)	SA Decachlor...	10.257	8.885	22148662	22880622	19.445	21.106
	Target Compounds						

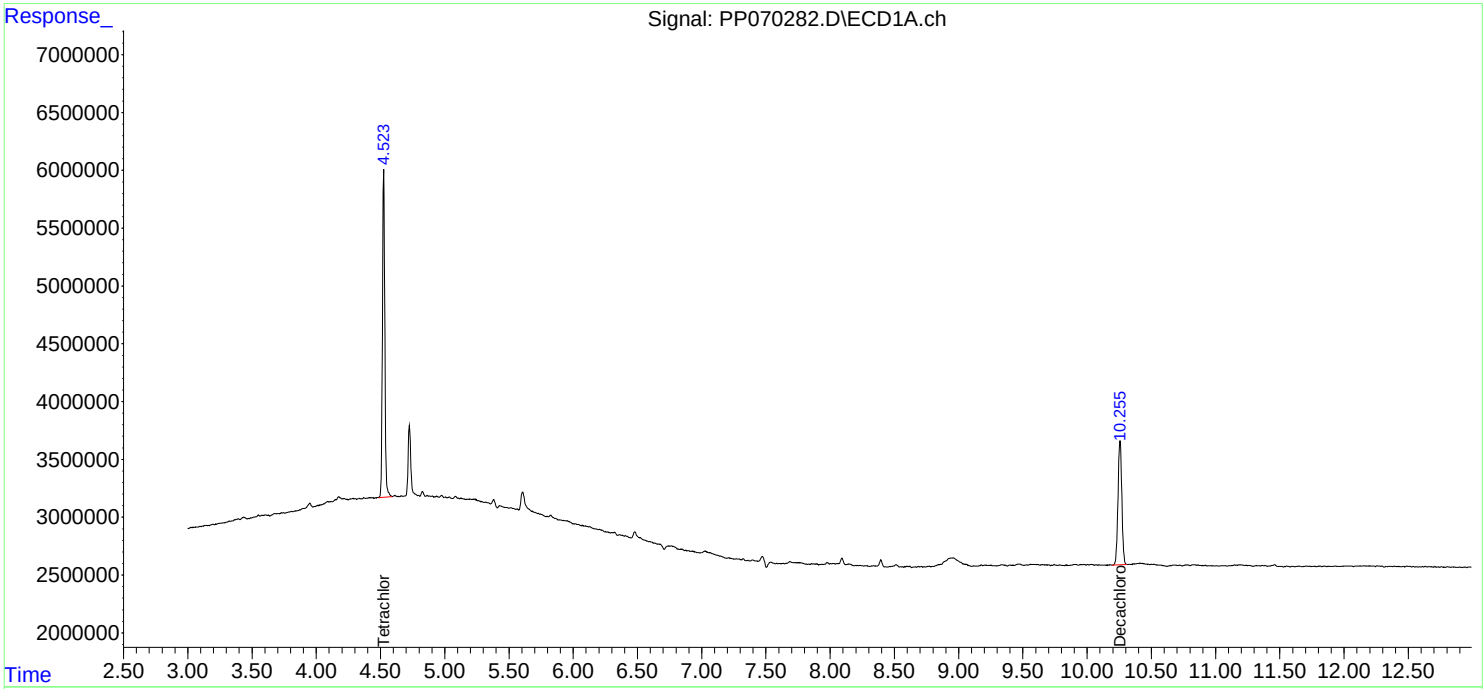
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

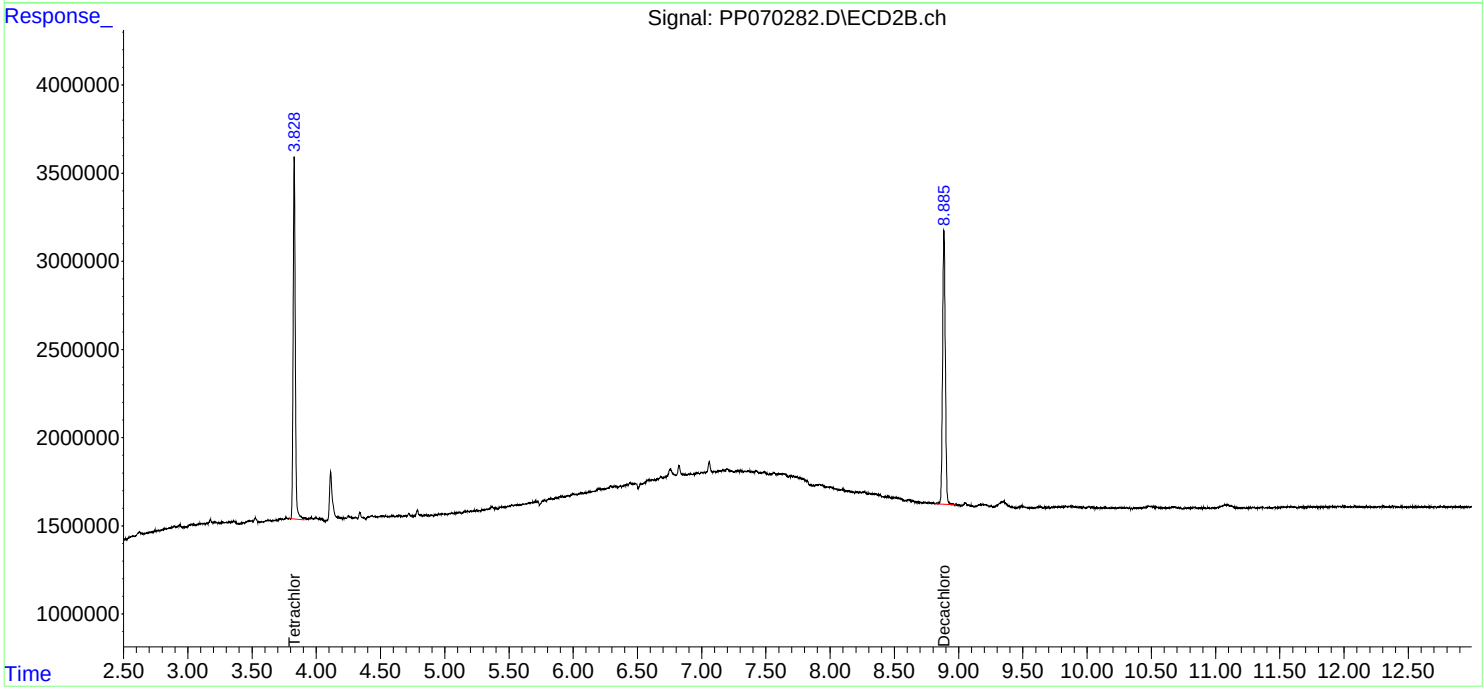
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070282.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:24
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

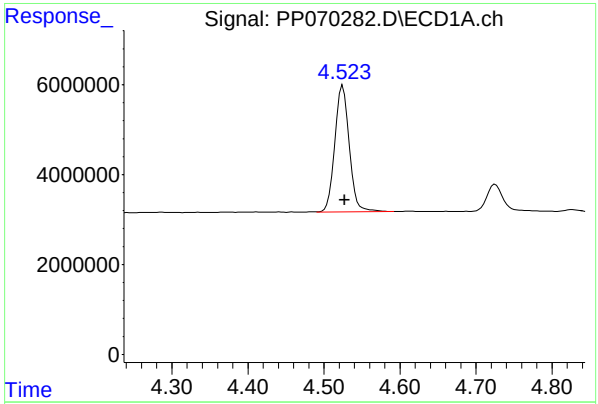
Instrument :
ECD_P
ClientSampleId :
ENV-102-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



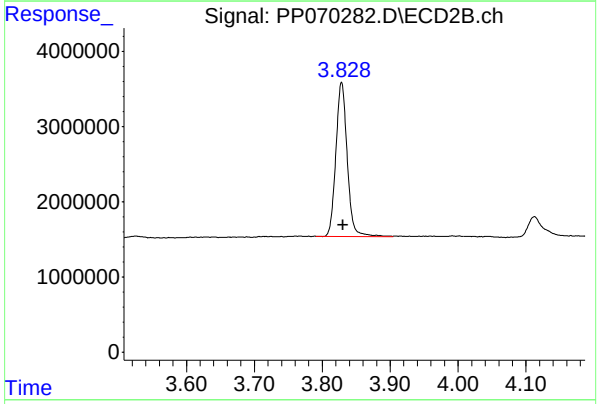




#1 Tetrachloro-m-xylene

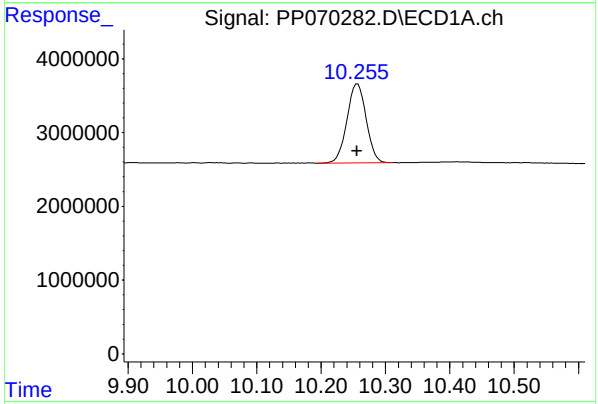
R.T.: 4.525 min
Delta R.T.: -0.002 min
Response: 36927538
Conc: 25.16 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-102-SB02



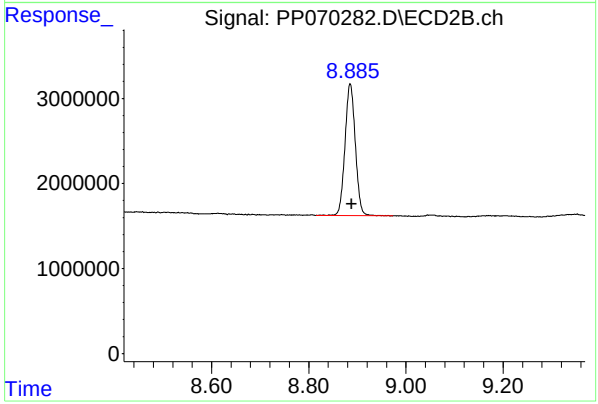
#1 Tetrachloro-m-xylene

R.T.: 3.828 min
Delta R.T.: -0.002 min
Response: 23821357
Conc: 24.92 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.257 min
Delta R.T.: 0.000 min
Response: 22148662
Conc: 19.45 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.885 min
Delta R.T.: -0.003 min
Response: 22880622
Conc: 21.11 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:40
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-104-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:29:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.829	32731037	21418439	22.302	22.403
2)	SA Decachlor...	10.257	8.886	16020853	17270197	14.065	15.930
	Target Compounds						

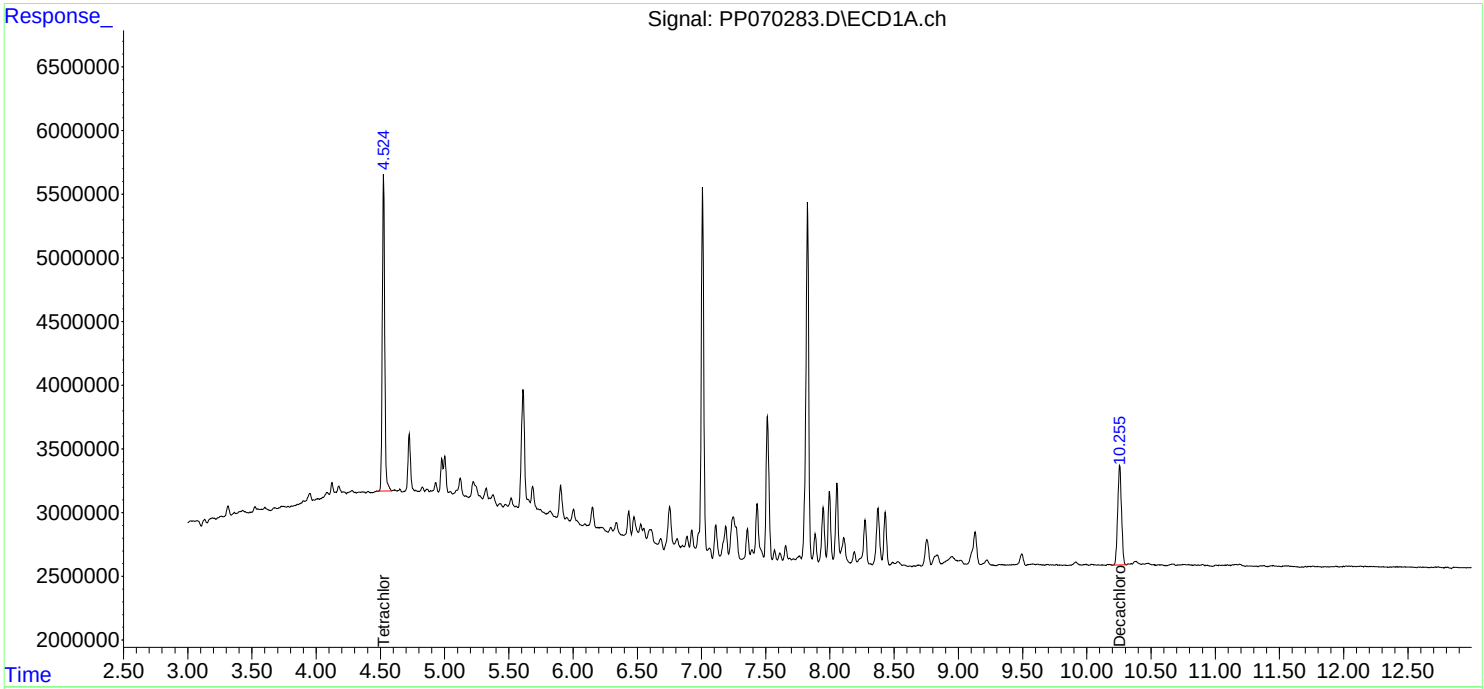
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

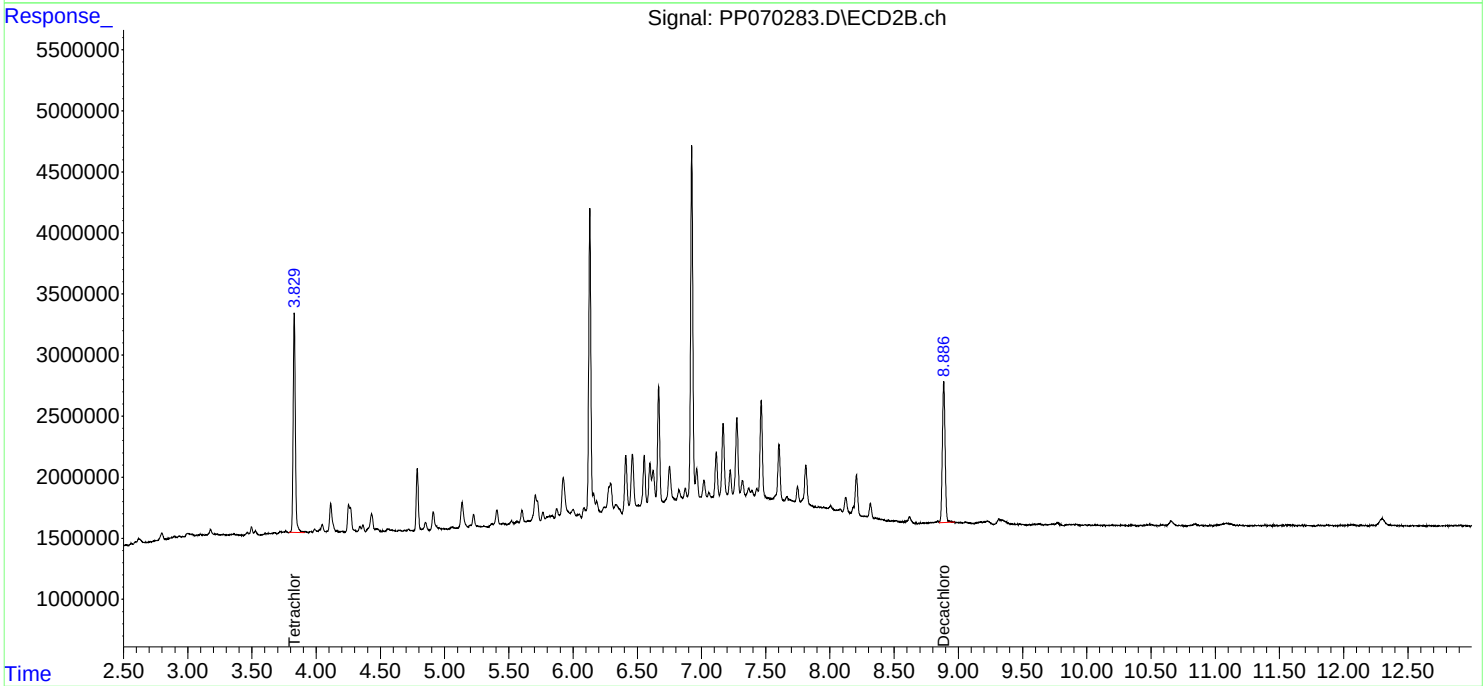
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:40
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 21 Sample Multiplier: 1

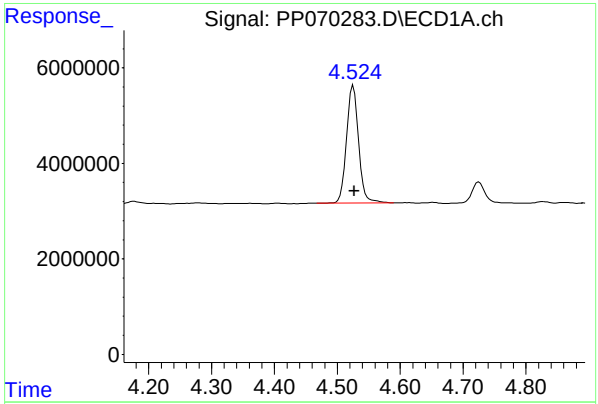
Instrument :
ECD_P
ClientSampleId :
ENV-104-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:29:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



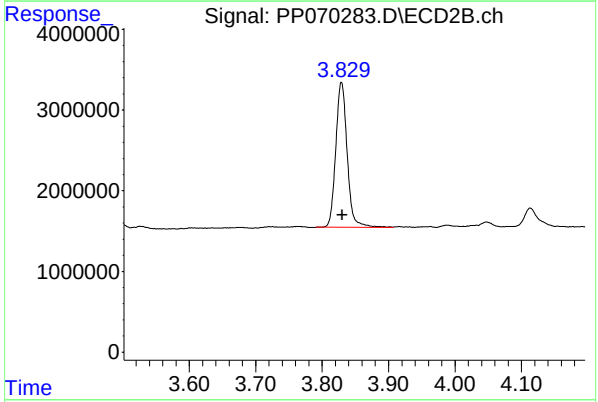




#1 Tetrachloro-m-xylene

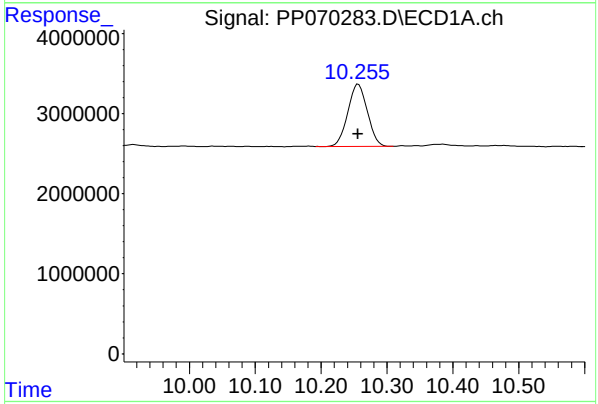
R.T.: 4.525 min
Delta R.T.: -0.002 min
Response: 32731037
Conc: 22.30 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-104-SB01



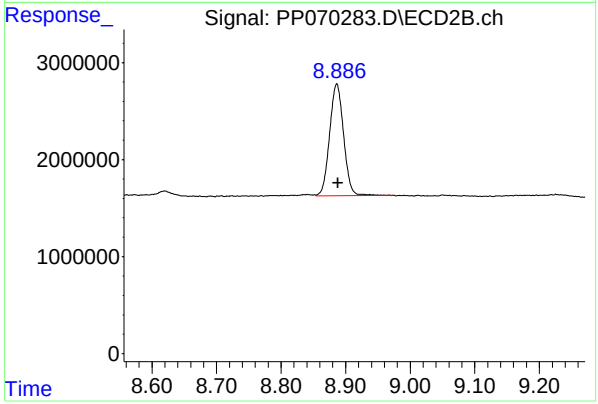
#1 Tetrachloro-m-xylene

R.T.: 3.829 min
Delta R.T.: -0.001 min
Response: 21418439
Conc: 22.40 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.257 min
Delta R.T.: 0.000 min
Response: 16020853
Conc: 14.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.886 min
Delta R.T.: -0.002 min
Response: 17270197
Conc: 15.93 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070284.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:56
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:29:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.830	35952108	23002176	24.497	24.060
2)	SA Decachlor...	10.257	8.886	18921937	19235773	16.612	17.743
	Target Compounds						

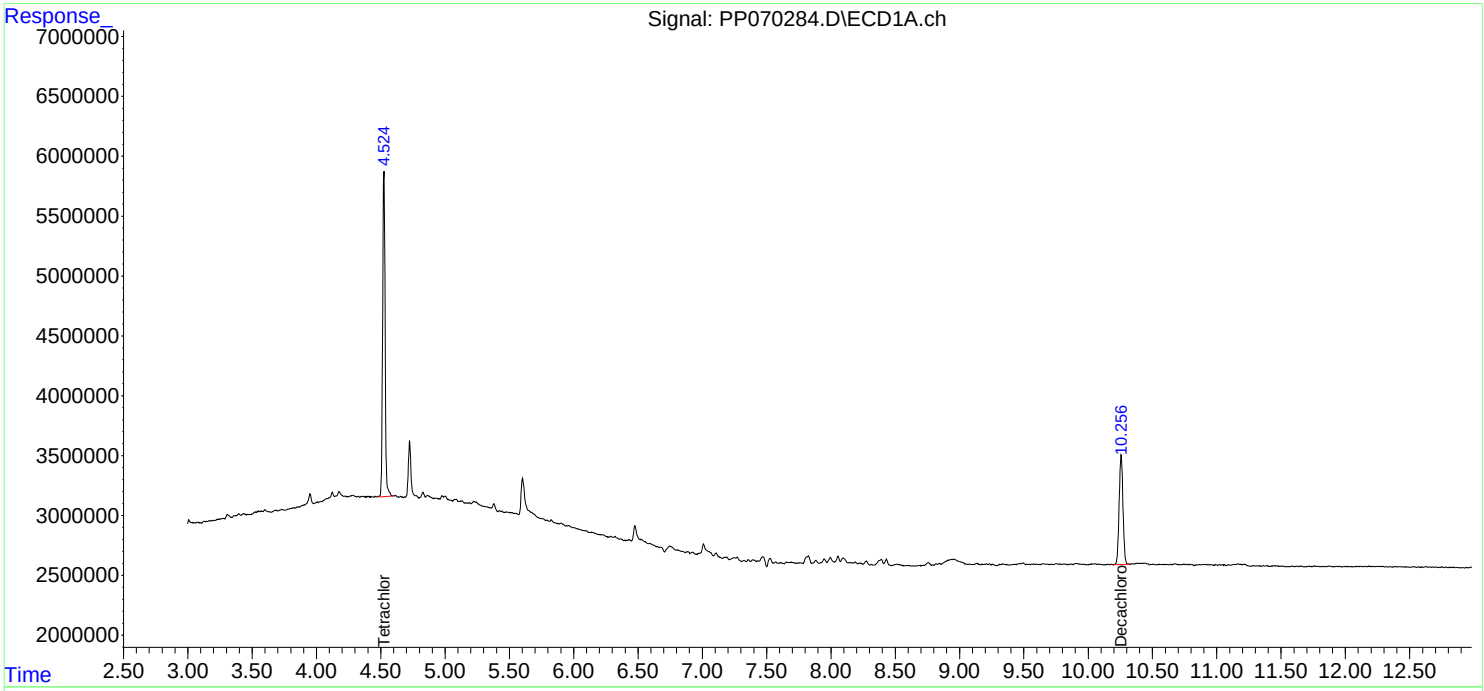
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

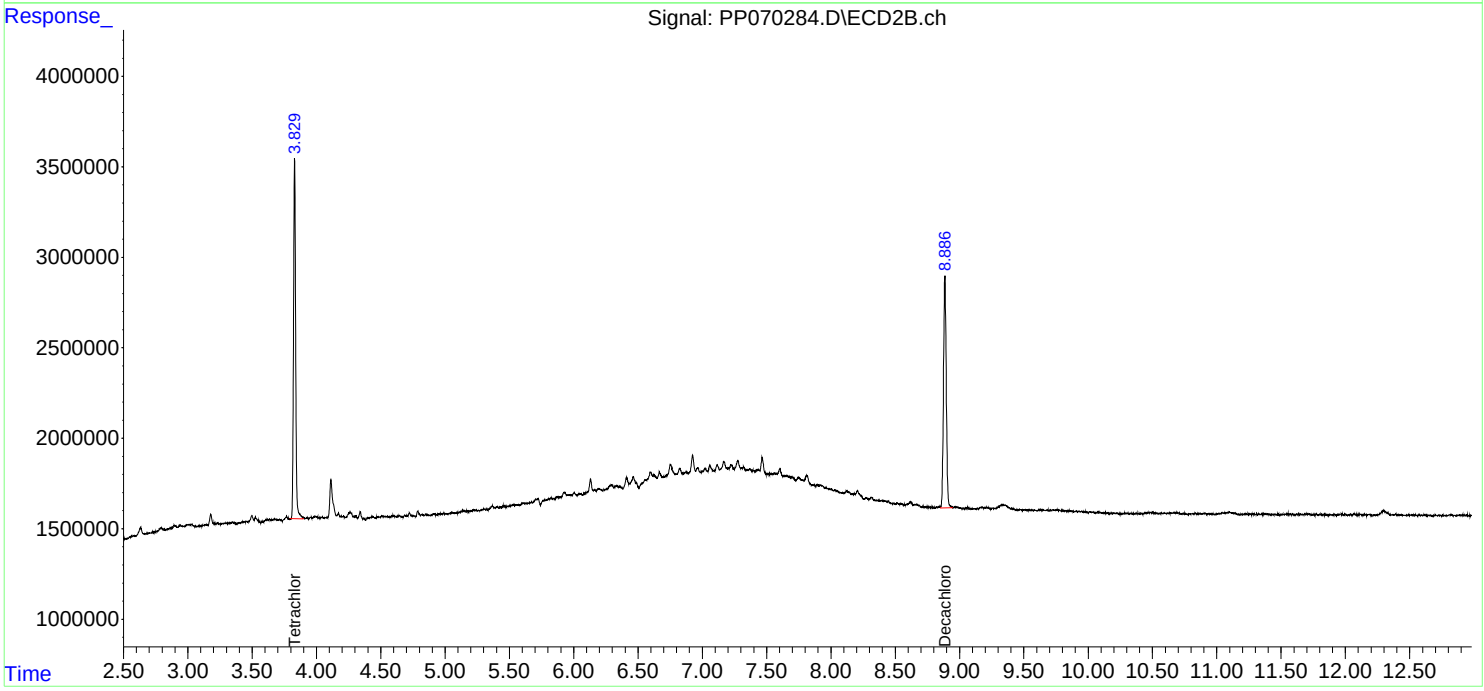
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070284.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 20:56
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

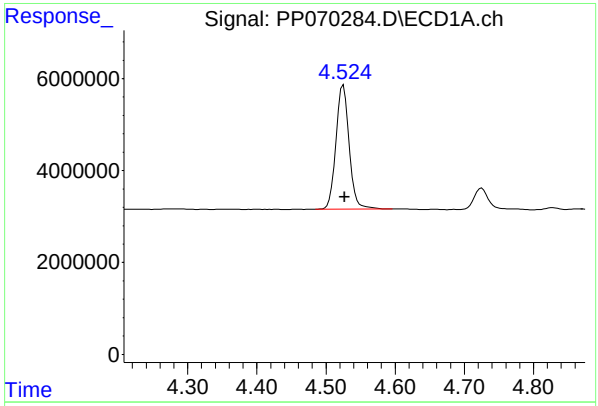
Instrument :
ECD_P
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:29:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



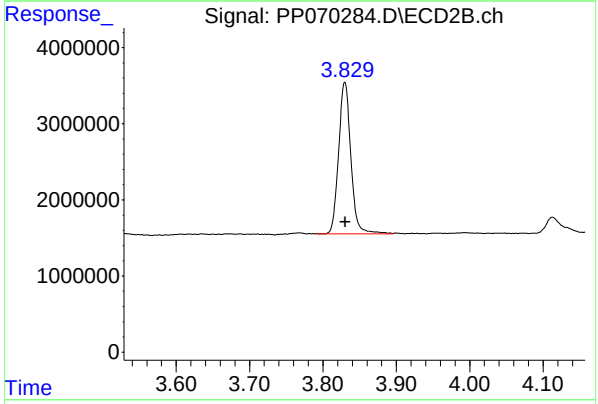




#1 Tetrachloro-m-xylene

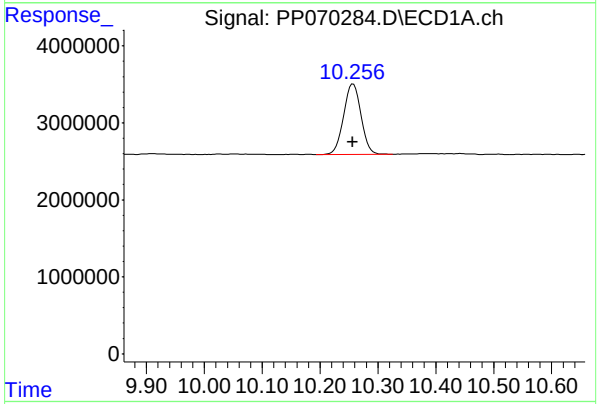
R.T.: 4.525 min
Delta R.T.: -0.002 min
Response: 35952108
Conc: 24.50 ng/ml

Instrument :
ECD_P
ClientSampleId :
ENV-104-SB02



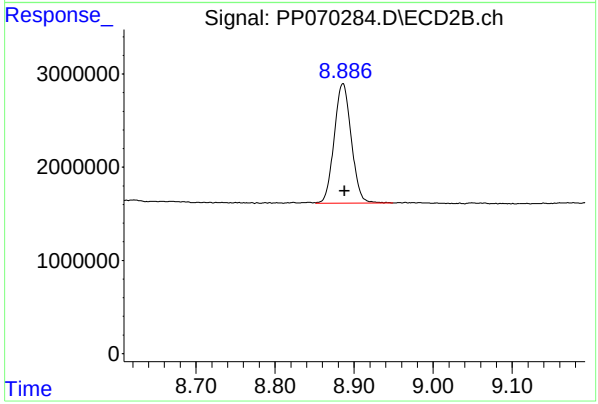
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 23002176
Conc: 24.06 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.257 min
Delta R.T.: 0.001 min
Response: 18921937
Conc: 16.61 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.886 min
Delta R.T.: -0.002 min
Response: 19235773
Conc: 17.74 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 19:15
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ENV-102-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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...	3.697	3.695	245.0E6	142.0E6	25.883	27.125
2)	SA Decachlor...	8.755	8.707	151.7E6	61169805	17.634	19.210
	Target Compounds						

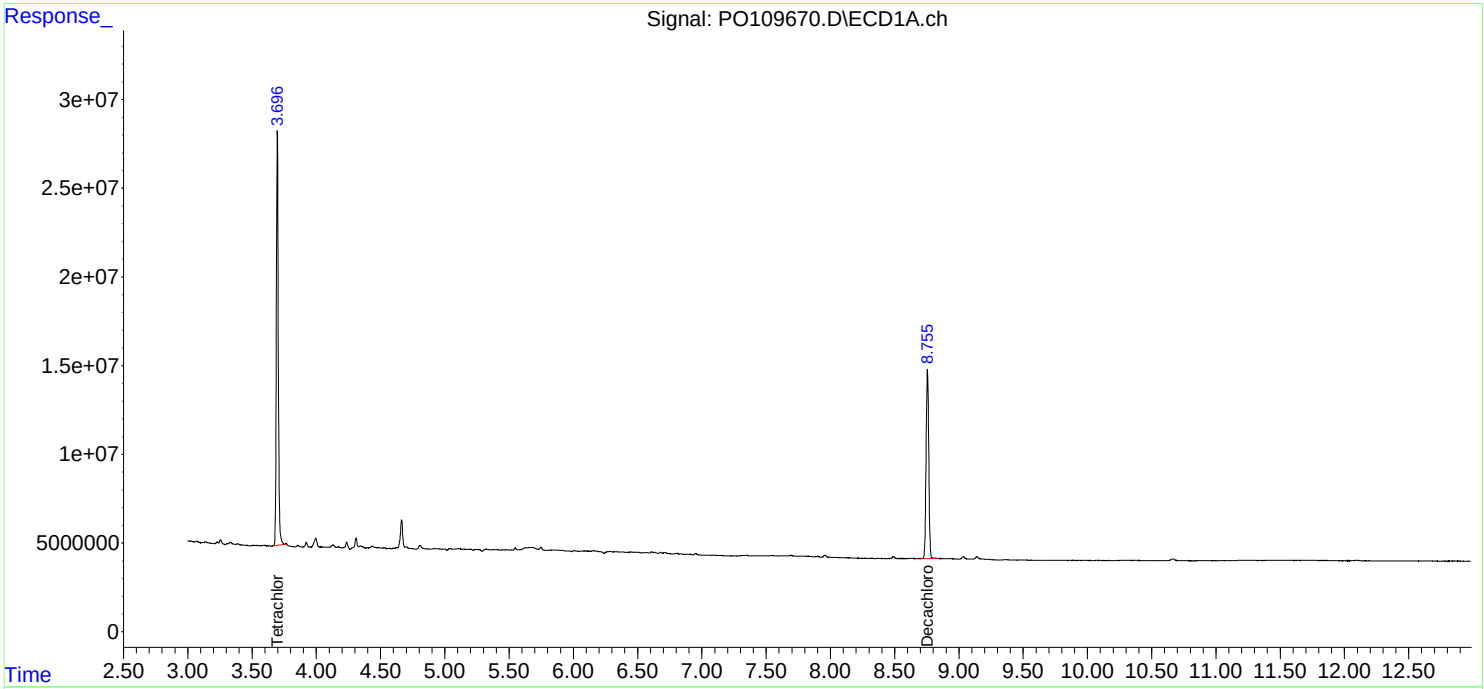
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

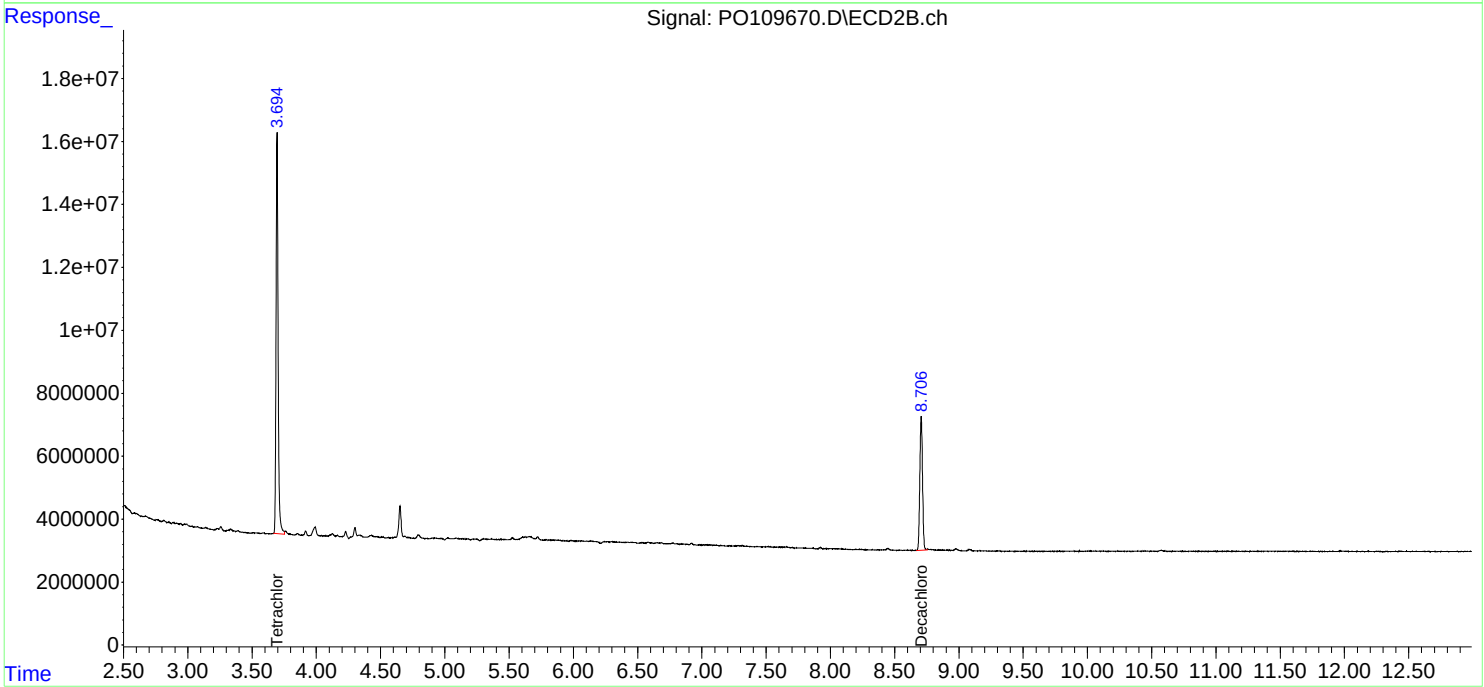
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 19:15
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ENV-102-GW01

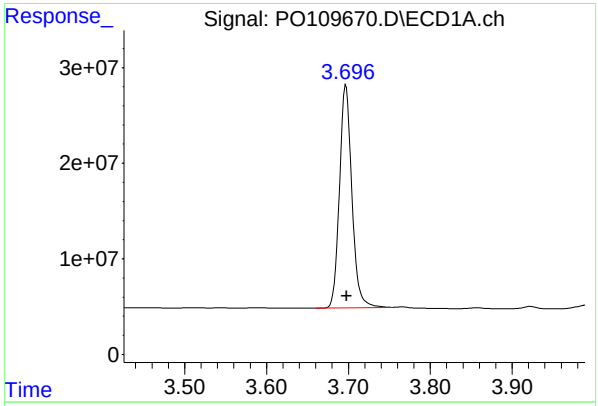
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 2025
Response via : Initial Calibration
Integrator: ChemStation

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





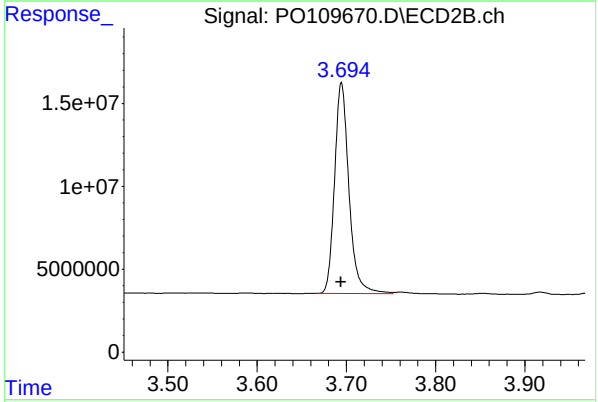
10



#1 Tetrachloro-m-xylene

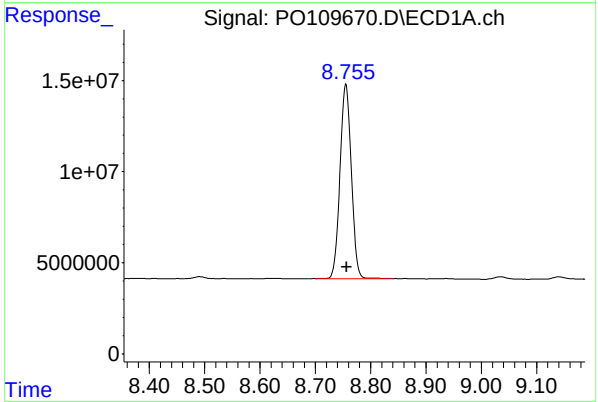
R.T.: 3.697 min
Delta R.T.: -0.001 min
Response: 244983018
Conc: 25.88 ng/ml

Instrument :
ECD_O
ClientSampleId :
ENV-102-GW01



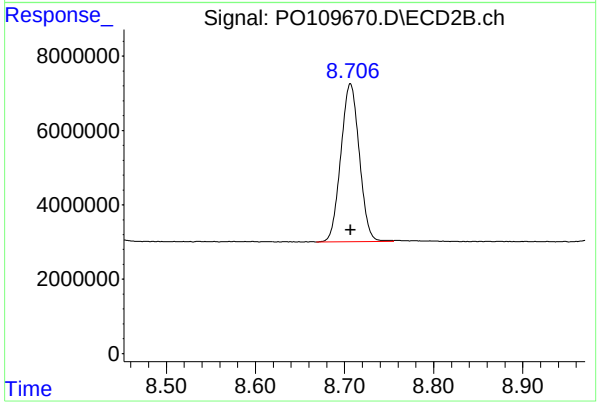
#1 Tetrachloro-m-xylene

R.T.: 3.695 min
Delta R.T.: 0.000 min
Response: 141979960
Conc: 27.13 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.755 min
Delta R.T.: -0.001 min
Response: 151682231
Conc: 17.63 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 61169805
Conc: 19.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109671.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 19:33
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ENV-104-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:12:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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...	3.696	3.694	244.8E6	141.7E6	25.863	27.070
2)	SA Decachlor...	8.755	8.706	138.3E6	55907868	16.073	17.558
	Target Compounds						

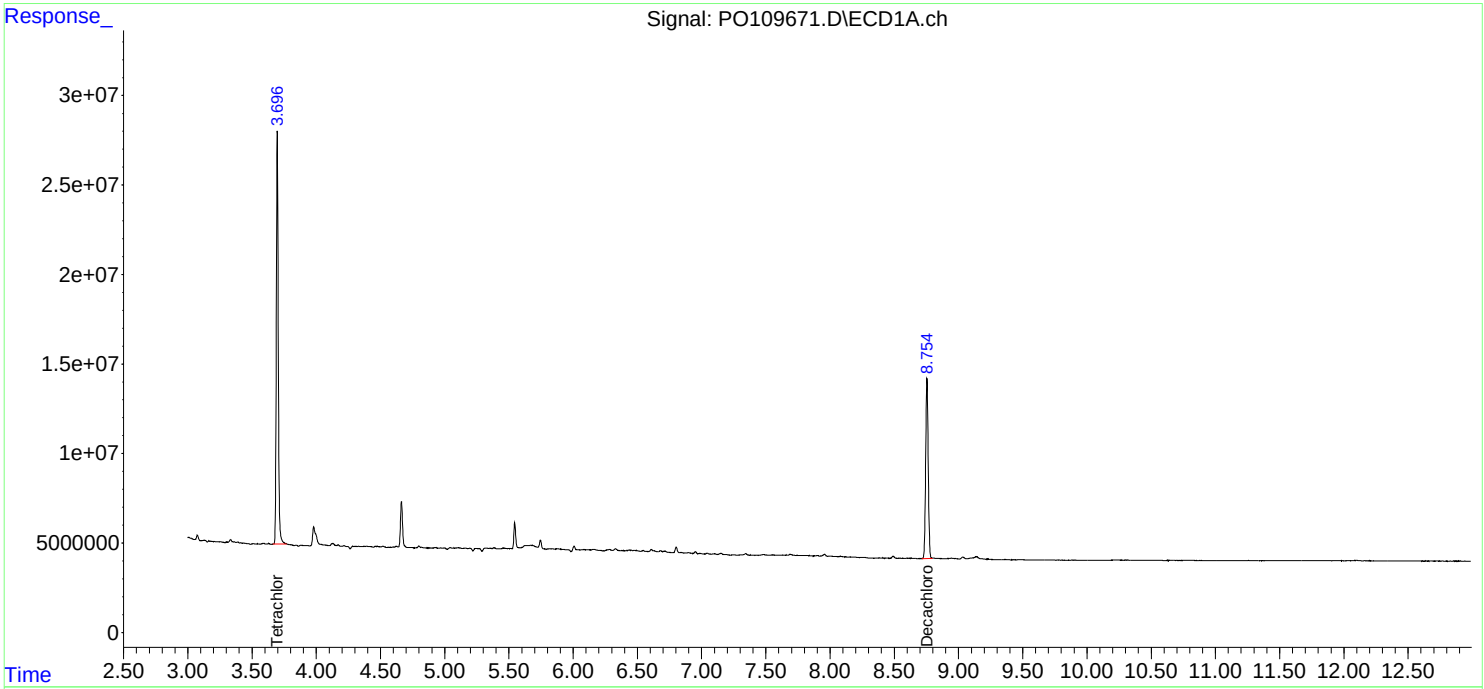
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

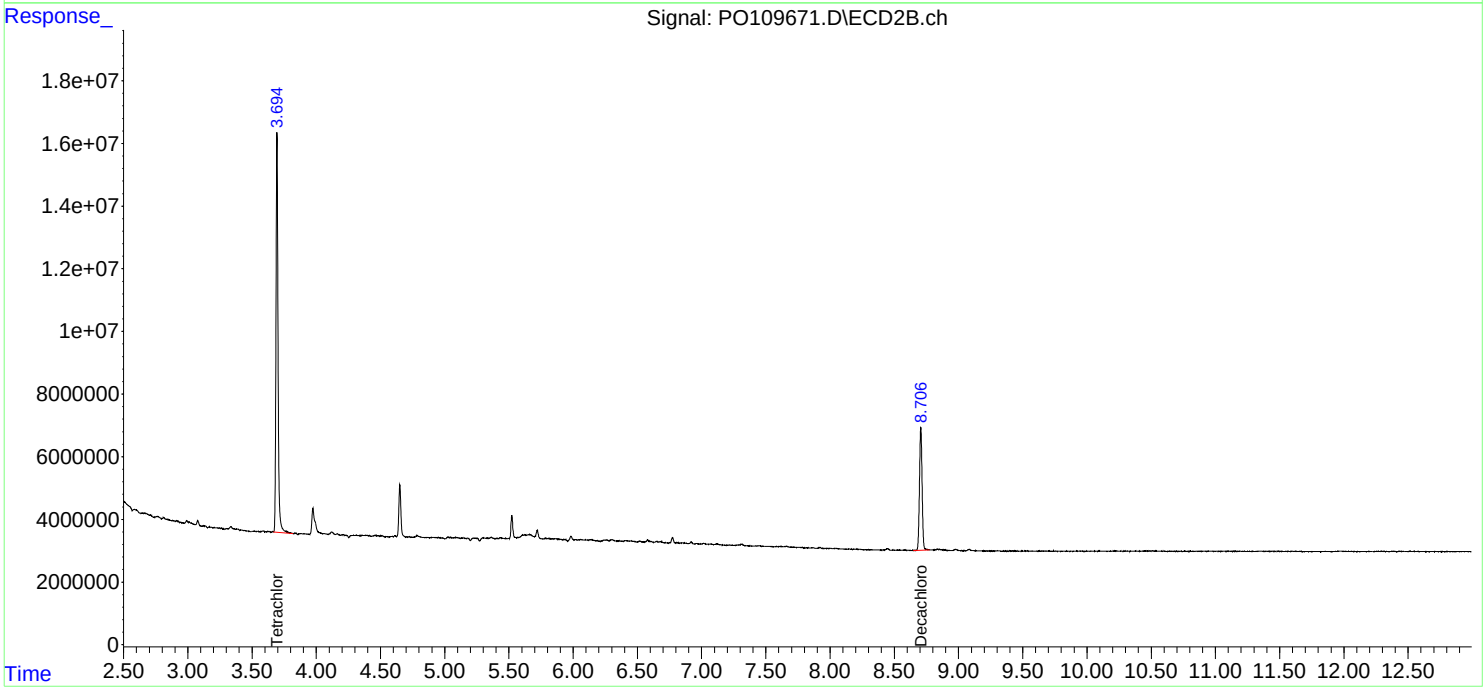
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109671.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 19:33
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ENV-104-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:12:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 2025
Response via : Initial Calibration
Integrator: ChemStation

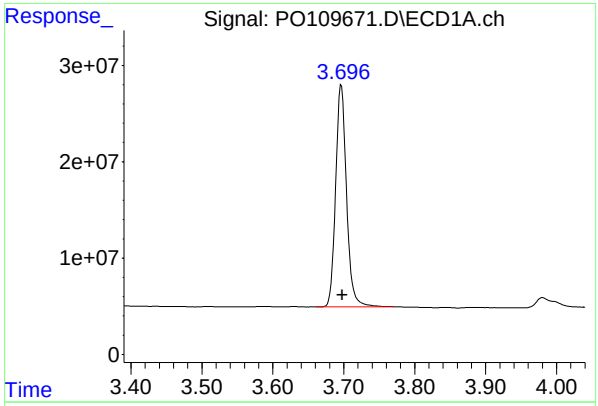
Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





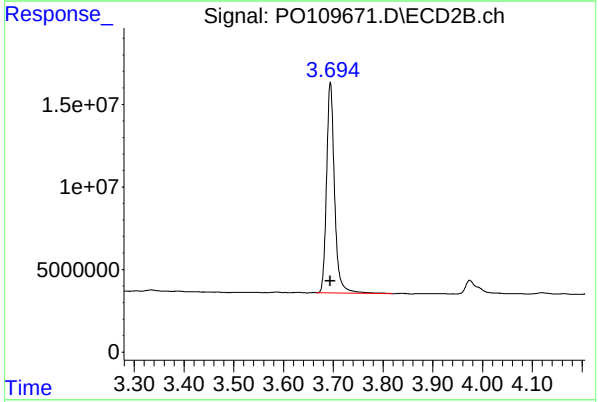
10

Instrument :
ECD_O
ClientSampleId :
ENV-104-GW01



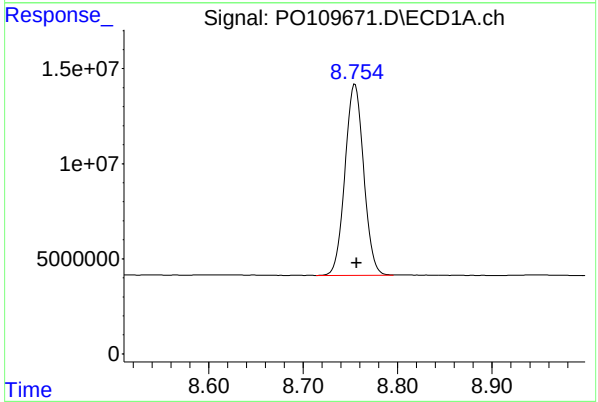
#1 Tetrachloro-m-xylene

R.T.: 3.696 min
Delta R.T.: -0.002 min
Response: 244792446
Conc: 25.86 ng/ml



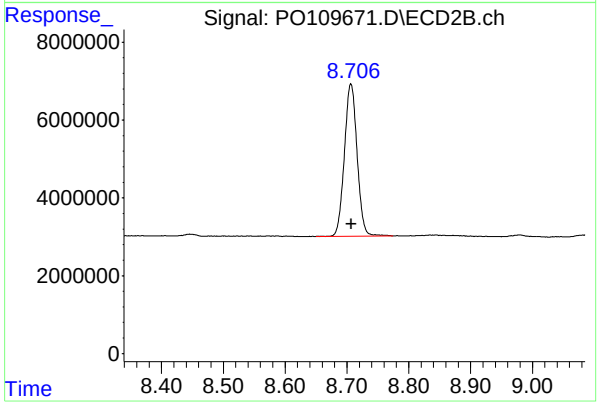
#1 Tetrachloro-m-xylene

R.T.: 3.694 min
Delta R.T.: 0.000 min
Response: 141692224
Conc: 27.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.755 min
Delta R.T.: -0.002 min
Response: 138259689
Conc: 16.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 55907868
Conc: 17.56 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070264.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 14:58
Operator : YP\AJ
Sample : PB166985BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166985BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:22:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.830	36537103	23069736	24.895	24.131
2)	SA Decachlor...	10.260	8.885	25312979	25823999	22.223	23.821
	Target Compounds						

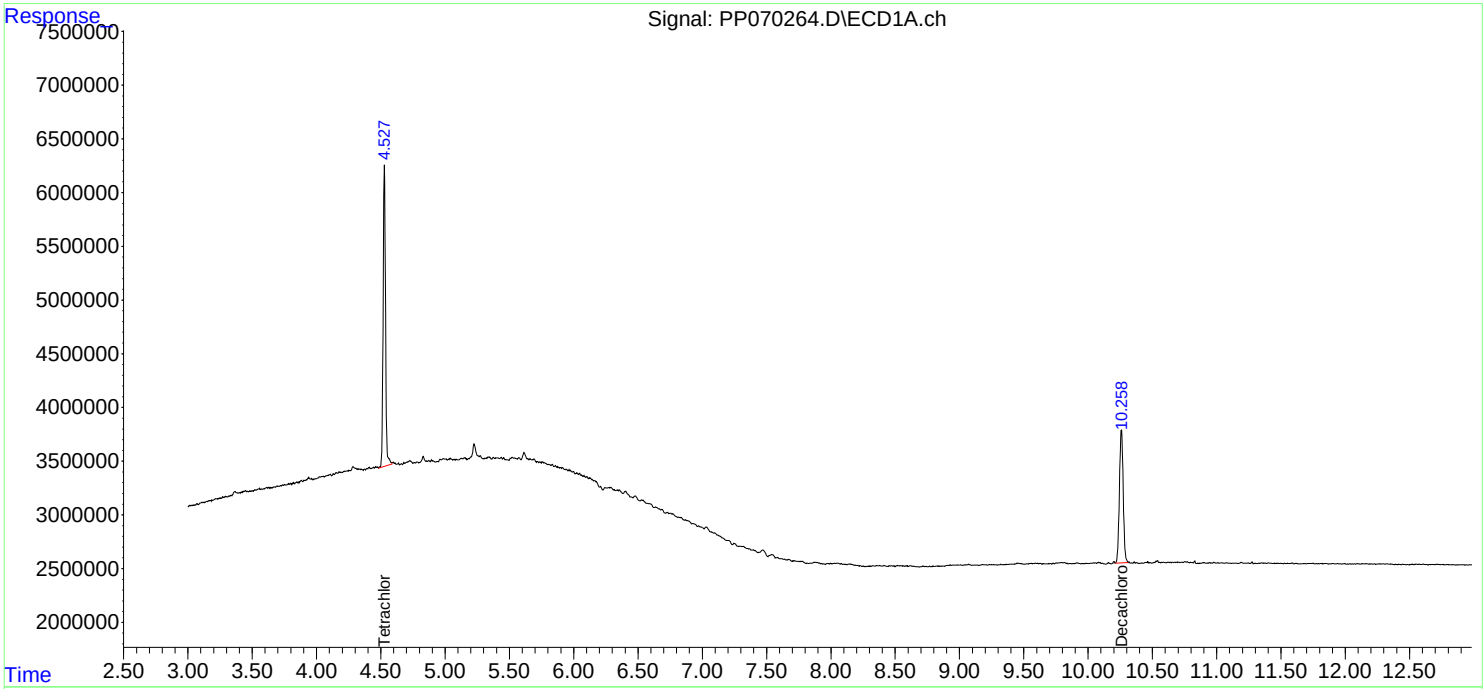
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

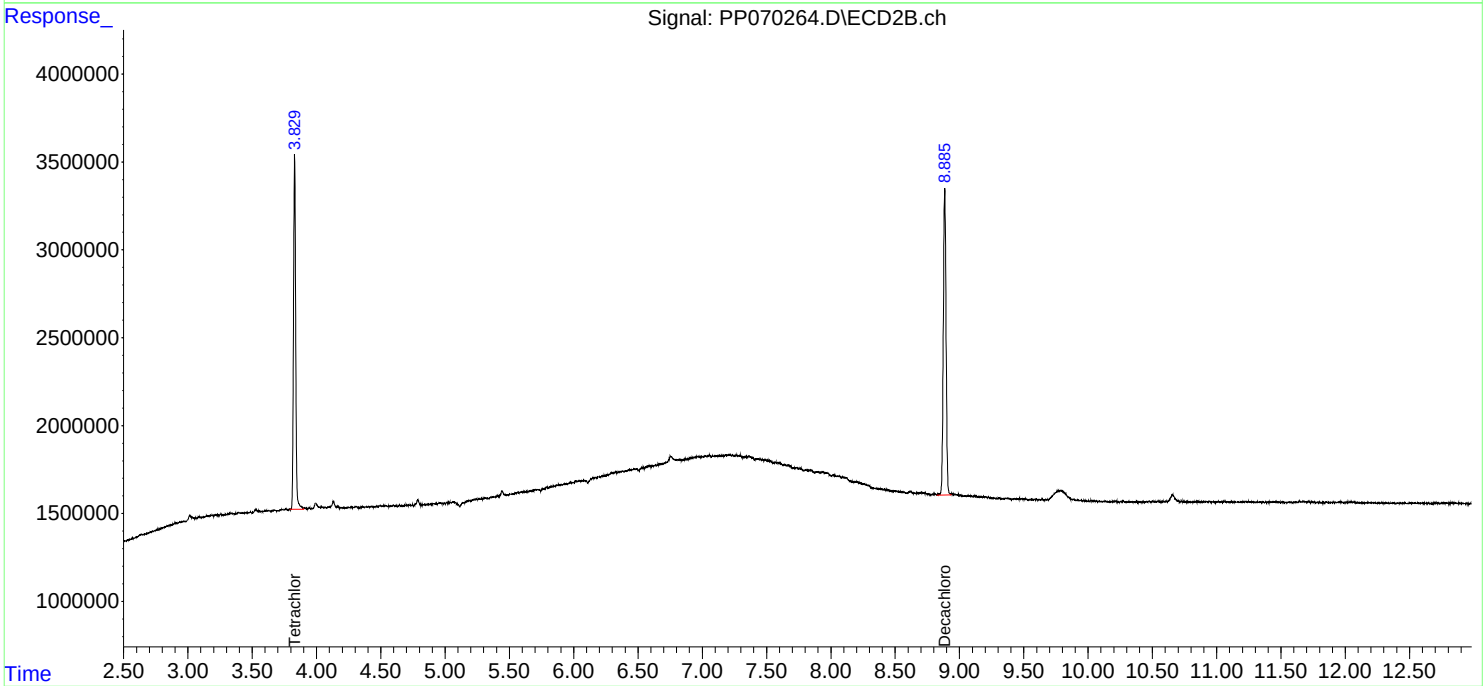
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070264.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 14:58
Operator : YP\AJ
Sample : PB166985BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

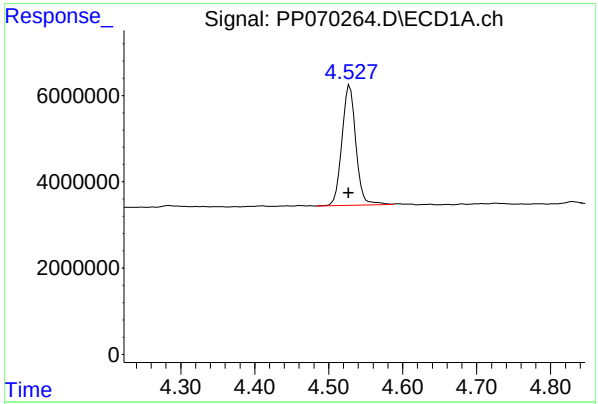
Instrument :
ECD_P
ClientSampleId :
PB166985BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:22:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



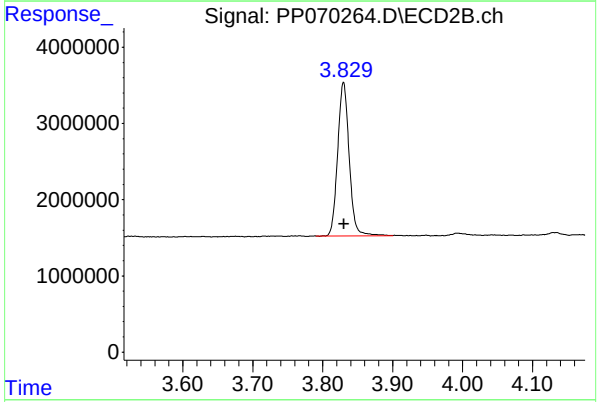




#1 Tetrachloro-m-xylene

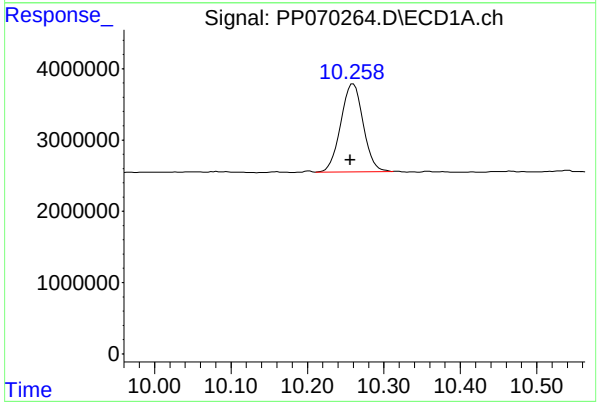
R.T.: 4.528 min
Delta R.T.: 0.001 min
Response: 36537103
Conc: 24.90 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB166985BL



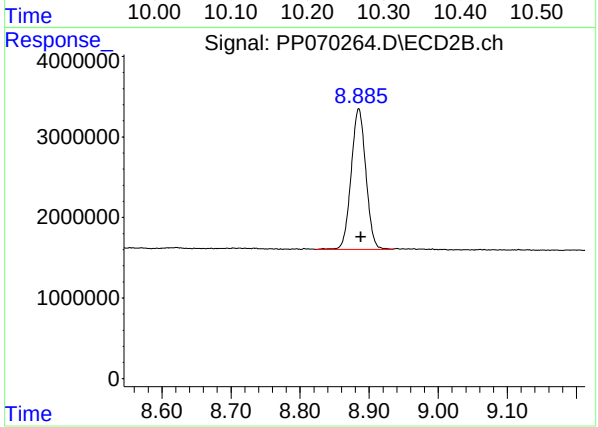
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 23069736
Conc: 24.13 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.260 min
Delta R.T.: 0.004 min
Response: 25312979
Conc: 22.22 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.885 min
Delta R.T.: -0.003 min
Response: 25823999
Conc: 23.82 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:19
Operator : YP/AJ
Sample : PB167009BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167009BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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...	3.697	3.694	212.0E6	124.1E6	22.399	23.709
2)	SA Decachlor...	8.755	8.708	176.0E6	69890341	20.458	21.949
	Target Compounds						

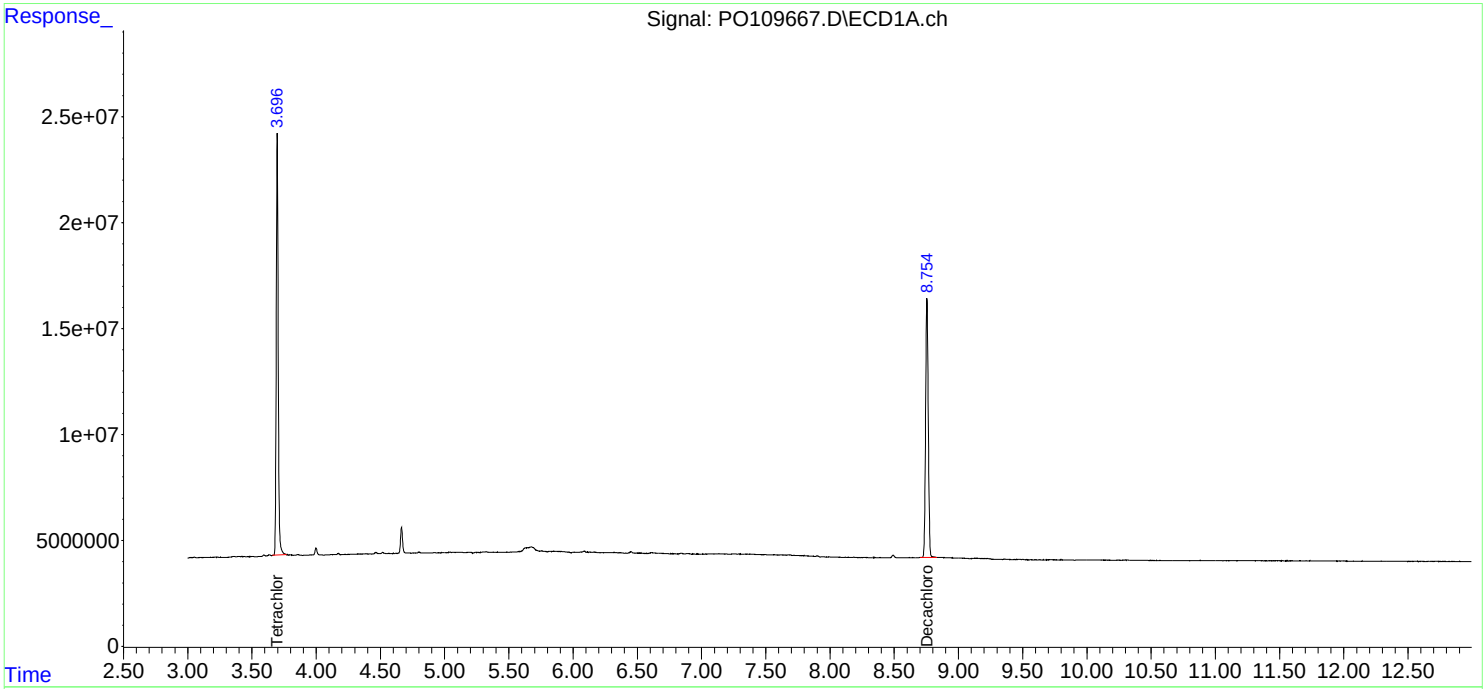
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

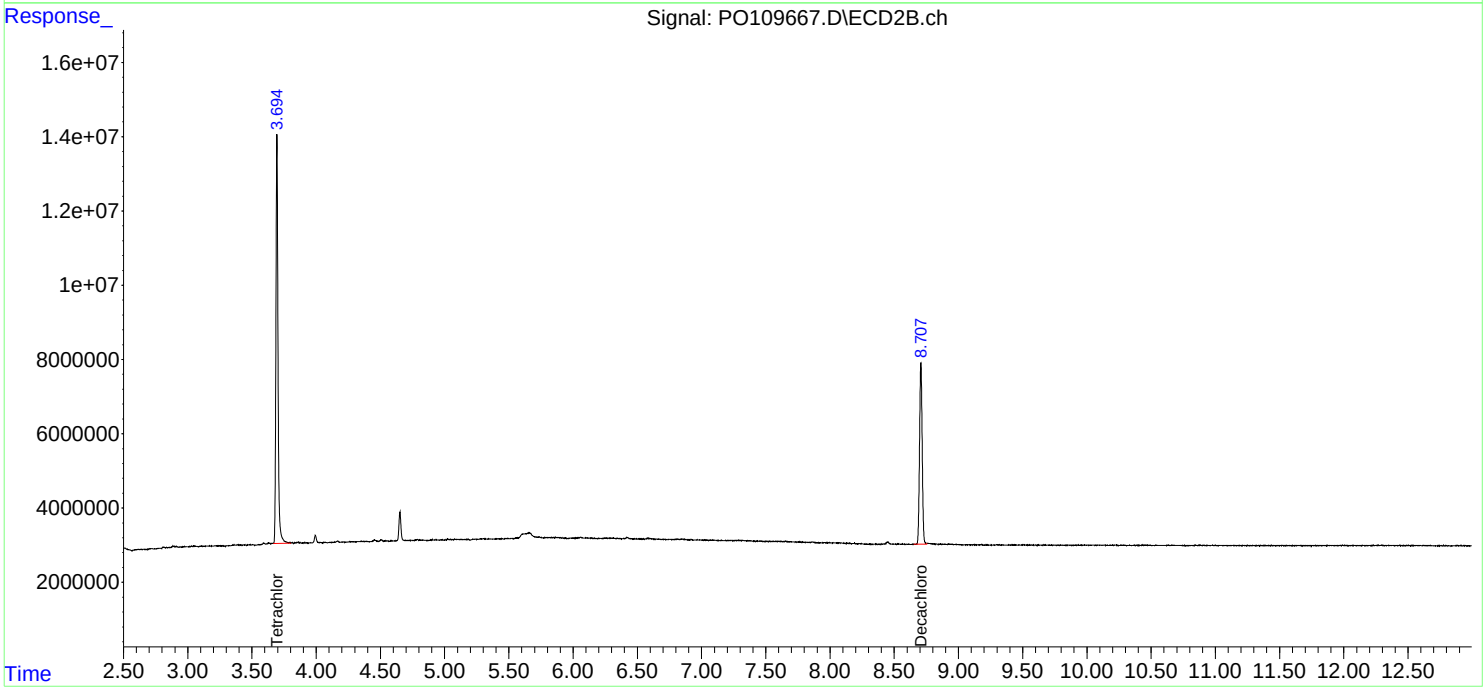
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:19
Operator : YP/AJ
Sample : PB167009BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

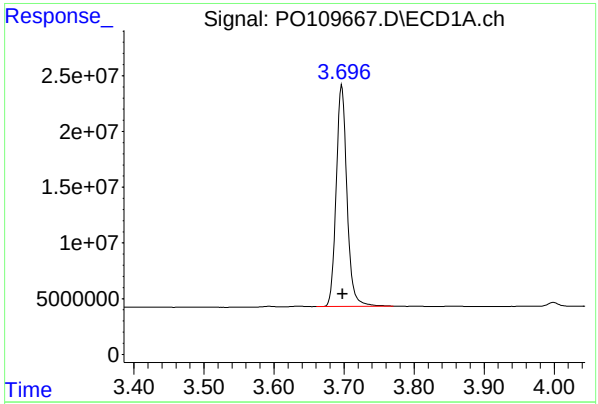
Instrument :
ECD_O
ClientSampleId :
PB167009BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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



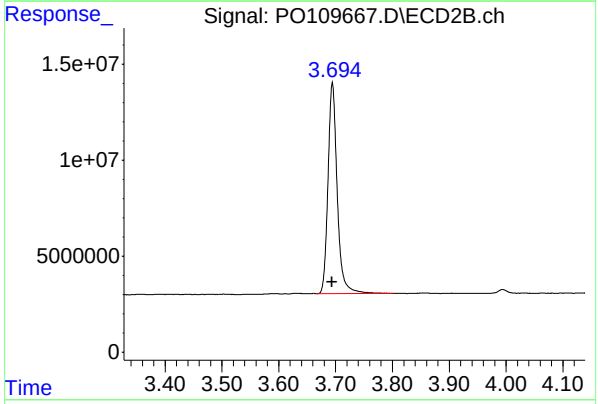




#1 Tetrachloro-m-xylene

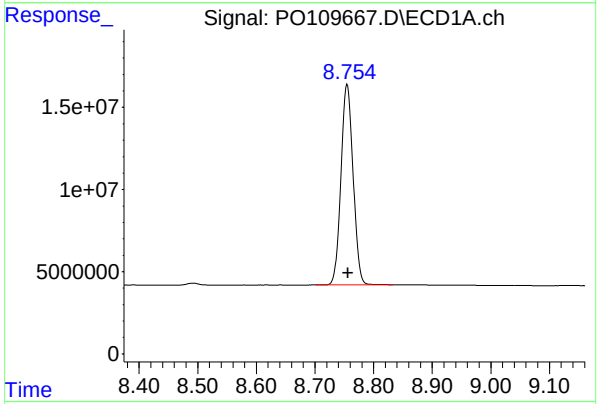
R.T.: 3.697 min
Delta R.T.: -0.001 min
Response: 212011233
Conc: 22.40 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB167009BL



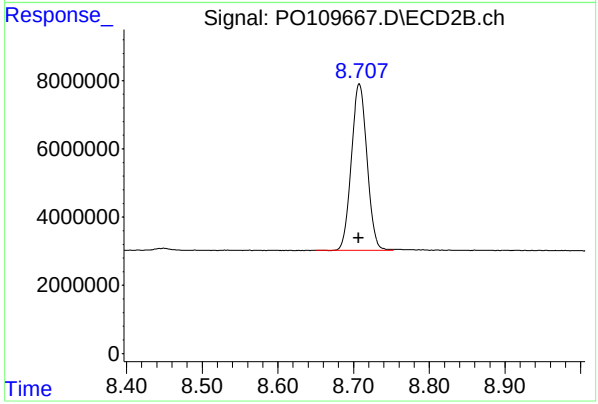
#1 Tetrachloro-m-xylene

R.T.: 3.694 min
Delta R.T.: 0.000 min
Response: 124096713
Conc: 23.71 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.755 min
Delta R.T.: -0.002 min
Response: 175977136
Conc: 20.46 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 69890341
Conc: 21.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070265.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 15:14
Operator : YP\AJ
Sample : PB166985BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166985BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:23:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.527	3.828	37299874	23038088	25.415	24.098
2)	SA Decachlor...	10.257	8.883	25627104	25728577	22.499	23.733
	Target Compounds						
3)	L1 AR-1016-1	5.680	4.917	24302558	16520528	487.747	494.648
4)	L1 AR-1016-2	5.702	4.936	36163892	22891448	510.948	491.293
5)	L1 AR-1016-3	5.764	5.113	21774692	12205975	495.753	487.607
6)	L1 AR-1016-4	5.862	5.155	18221661	9819976	502.509	489.270
7)	L1 AR-1016-5	6.155	5.370	16238591	12708622	484.177	489.800
31)	L7 AR-1260-1	7.274	6.408	30866937	24597011	528.906	496.515
32)	L7 AR-1260-2	7.528	6.595	40083696	32551534	490.469	497.577
33)	L7 AR-1260-3	7.887	6.749	26882544	28492173	428.332	472.334
34)	L7 AR-1260-4	8.111	7.222	28341344	22838040	447.017	467.347
35)	L7 AR-1260-5	8.433	7.463	58809587	57971779	448.296	486.443

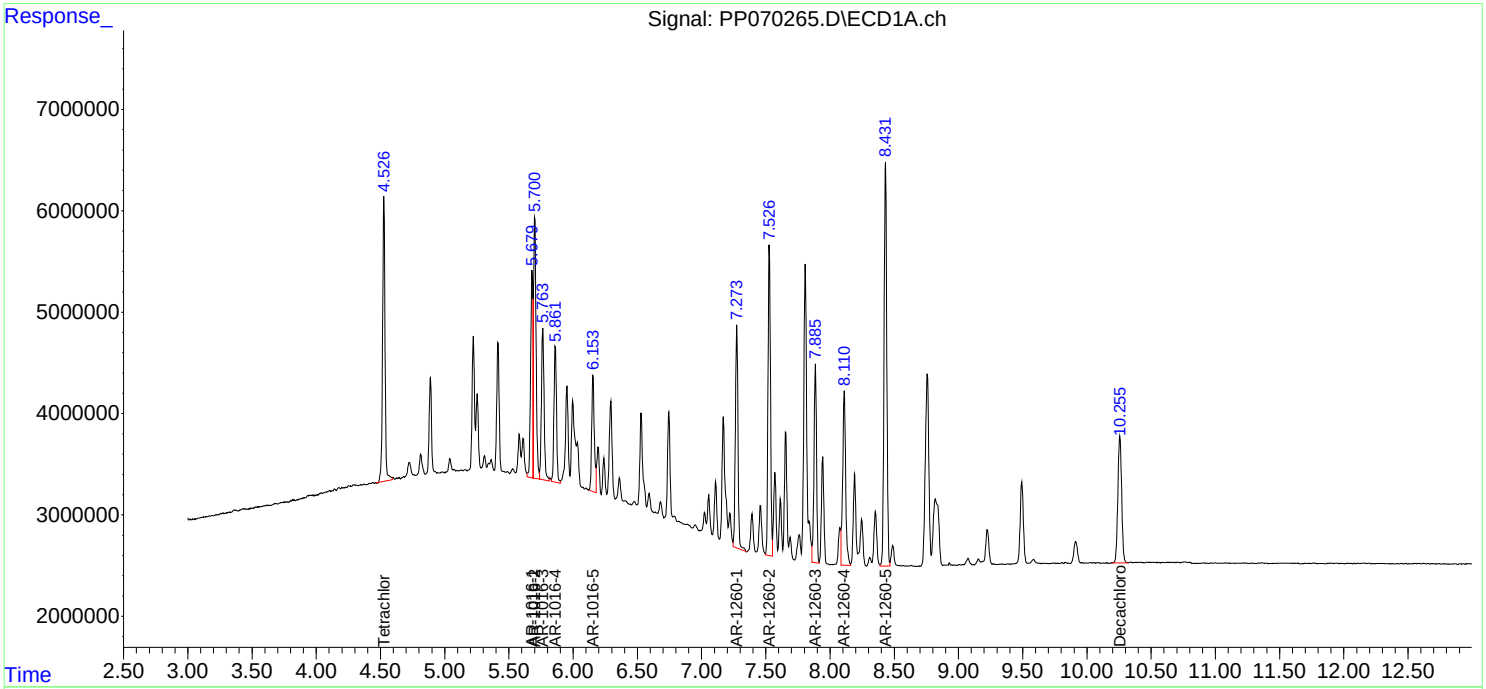
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

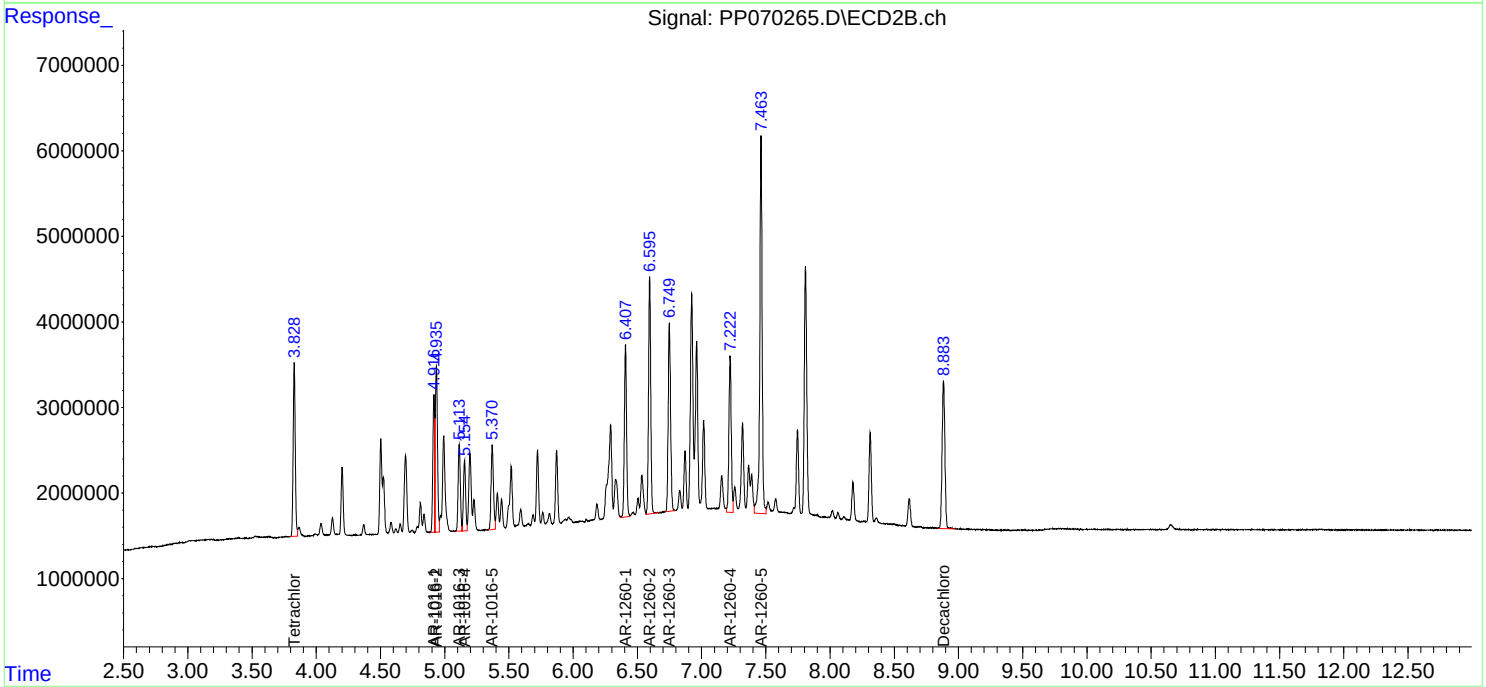
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070265.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 15:14
Operator : YP\AJ
Sample : PB166985BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166985BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:23:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:38
Operator : YP/AJ
Sample : PB167009BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167009BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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...	3.697	3.695	204.1E6	117.6E6	21.562	22.459
2)	SA Decachlor...	8.756	8.707	177.4E6	70332299	20.621	22.087
	Target Compounds						
3)	L1 AR-1016-1	4.791	4.778	147.5E6	80086260	478.453	512.813
4)	L1 AR-1016-2	4.811	4.797	202.5E6	112.6E6	481.082	520.162
5)	L1 AR-1016-3	4.867	4.973	140.3E6	61650495	474.365	516.114
6)	L1 AR-1016-4	4.987	5.015	111.0E6	51088448	478.871	490.902
7)	L1 AR-1016-5	5.245	5.228	116.8E6	65927878	452.450	483.862
31)	L7 AR-1260-1	6.288	6.261	222.2E6	120.6E6	476.667	508.992
32)	L7 AR-1260-2	6.476	6.449	266.4E6	140.8E6	471.362	511.716
33)	L7 AR-1260-3	6.845	6.602	190.0E6	130.3E6	399.537	510.760 #
34)	L7 AR-1260-4	7.105	7.074	179.6E6	90197290	416.178	437.443
35)	L7 AR-1260-5	7.347	7.315	429.7E6	202.6E6	432.382	452.357

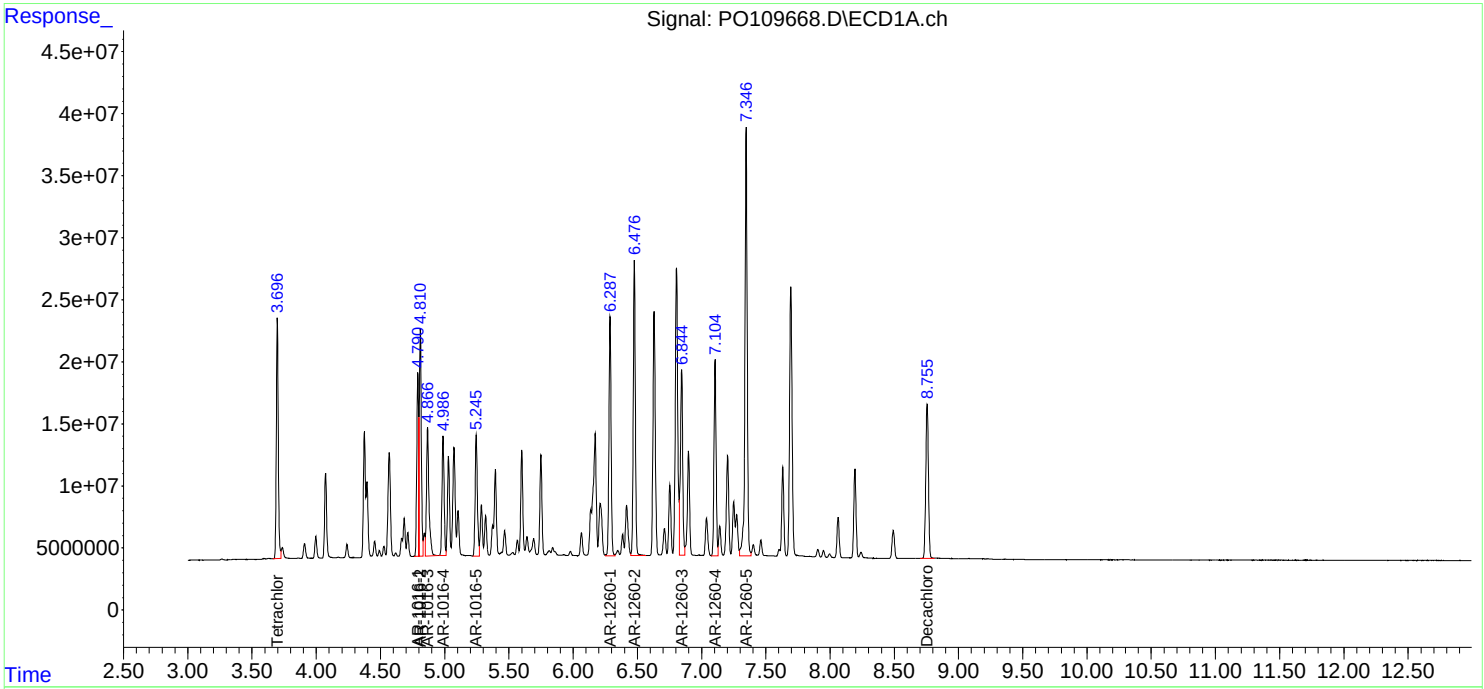
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

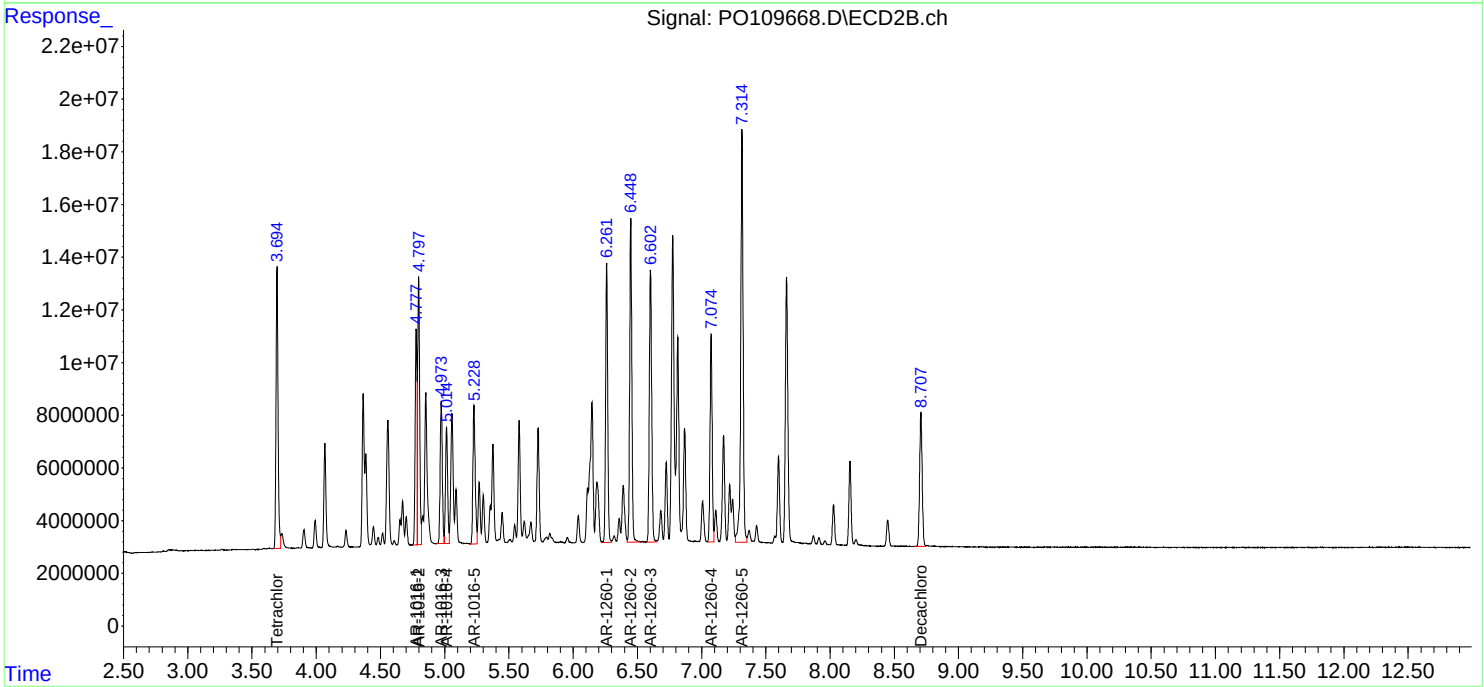
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:38
Operator : YP/AJ
Sample : PB167009BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167009BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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_O\Data\PO030625\
Data File : PO109669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:56
Operator : YP/AJ
Sample : PB167009BSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167009BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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...	3.696	3.694	203.2E6	116.9E6	21.471	22.334
2)	SA Decachlor...	8.754	8.707	175.1E6	70503315	20.359	22.141
	Target Compounds						
3)	L1 AR-1016-1	4.790	4.777	145.8E6	79796618	472.916	510.958
4)	L1 AR-1016-2	4.810	4.797	199.8E6	110.1E6	474.602	508.534
5)	L1 AR-1016-3	4.866	4.972	139.6E6	61002971	471.922	510.694
6)	L1 AR-1016-4	4.987	5.014	109.7E6	50343819	473.160	483.747
7)	L1 AR-1016-5	5.245	5.227	115.2E6	65107823	446.213	477.843
31)	L7 AR-1260-1	6.287	6.260	220.6E6	119.0E6	473.206	502.259
32)	L7 AR-1260-2	6.475	6.448	265.6E6	139.2E6	470.068	505.948
33)	L7 AR-1260-3	6.844	6.601	186.4E6	128.8E6	391.785	504.821 #
34)	L7 AR-1260-4	7.104	7.073	176.0E6	89088446	407.756	432.065
35)	L7 AR-1260-5	7.346	7.313	421.7E6	198.7E6	424.294	443.768

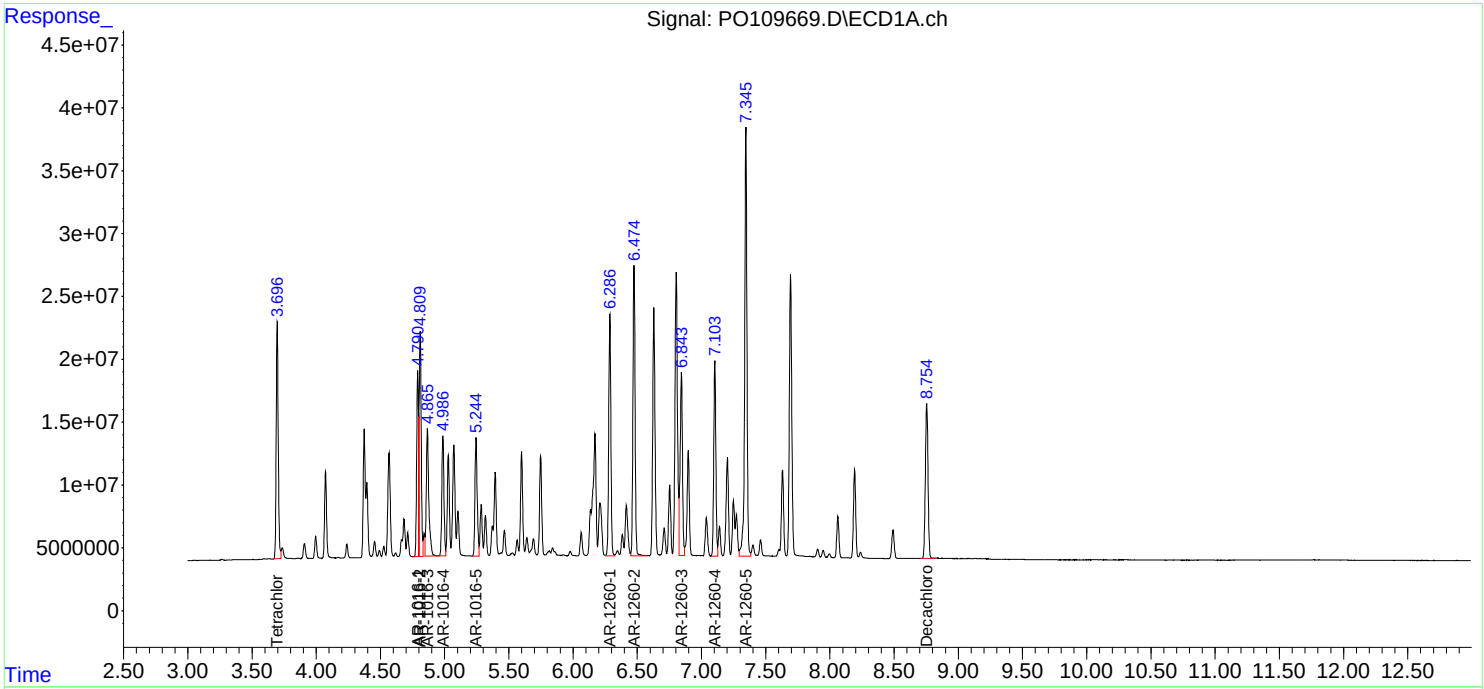
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

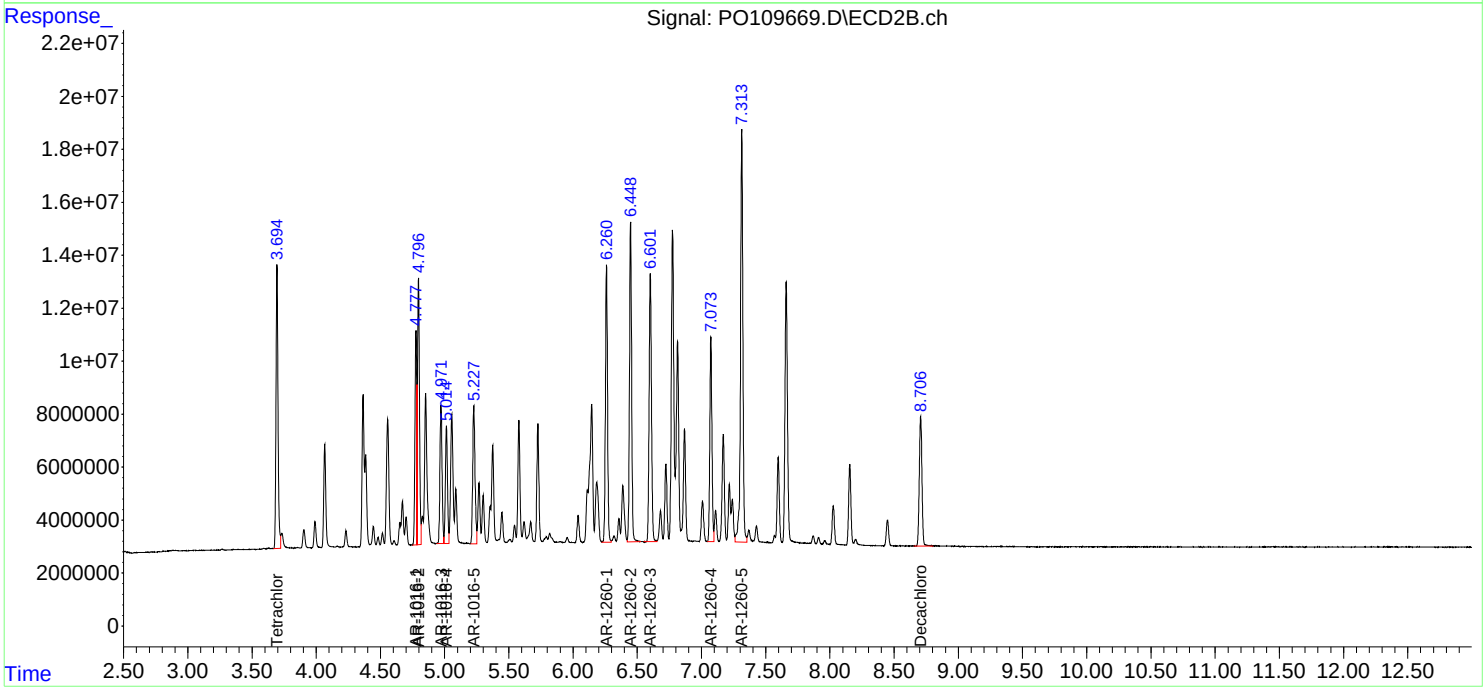
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO030625\
Data File : PO109669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Mar 2025 18:56
Operator : YP/AJ
Sample : PB167009BSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167009BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 07 00:11:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO022025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Feb 21 04:40:23 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





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070279.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 19:35
Operator : YP\AJ
Sample : Q1488-03MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:27:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.830	36613820	22702659	24.948	23.747
2)	SA Decachlor...	10.257	8.885	22300185	22879135	19.578	21.104
	Target Compounds						
3)	L1 AR-1016-1	5.678	4.919	24607140	16942839	493.860	507.292
4)	L1 AR-1016-2	5.700	4.938	36892937	23743103	521.249	509.572
5)	L1 AR-1016-3	5.762	5.115	22019171	13243795	501.319	529.066
6)	L1 AR-1016-4	5.860	5.157	18669745	10289756	514.866	512.676
7)	L1 AR-1016-5	6.153	5.372	16428452	13206548	489.838	508.991
31)	L7 AR-1260-1	7.273	6.410	29236348	24594685	500.966	496.469
32)	L7 AR-1260-2	7.526	6.598	39121466	32383001	478.695	495.001
33)	L7 AR-1260-3	7.885	6.752	27064720	28138926	431.234	466.478
34)	L7 AR-1260-4	8.110	7.224	28810879	21910551	454.423	448.368
35)	L7 AR-1260-5	8.431	7.465	57227833	54729148	436.239	459.234

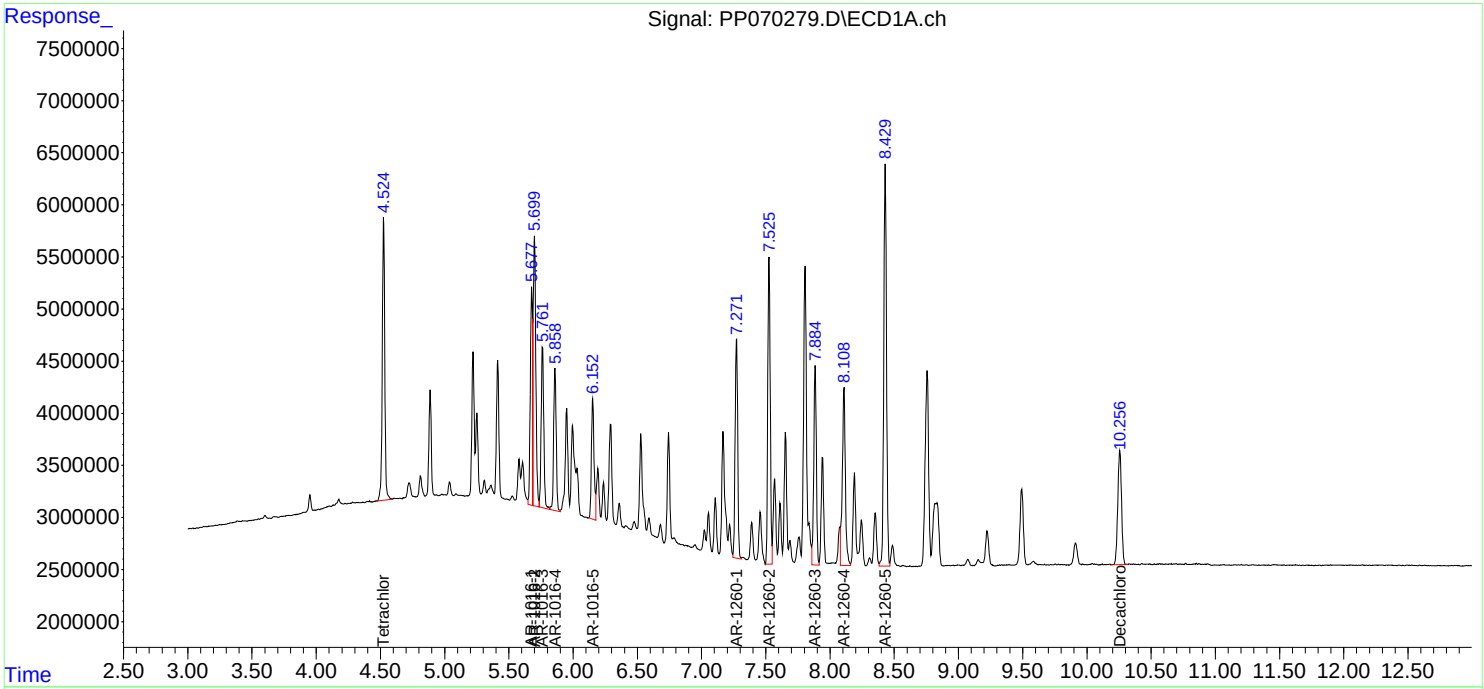
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

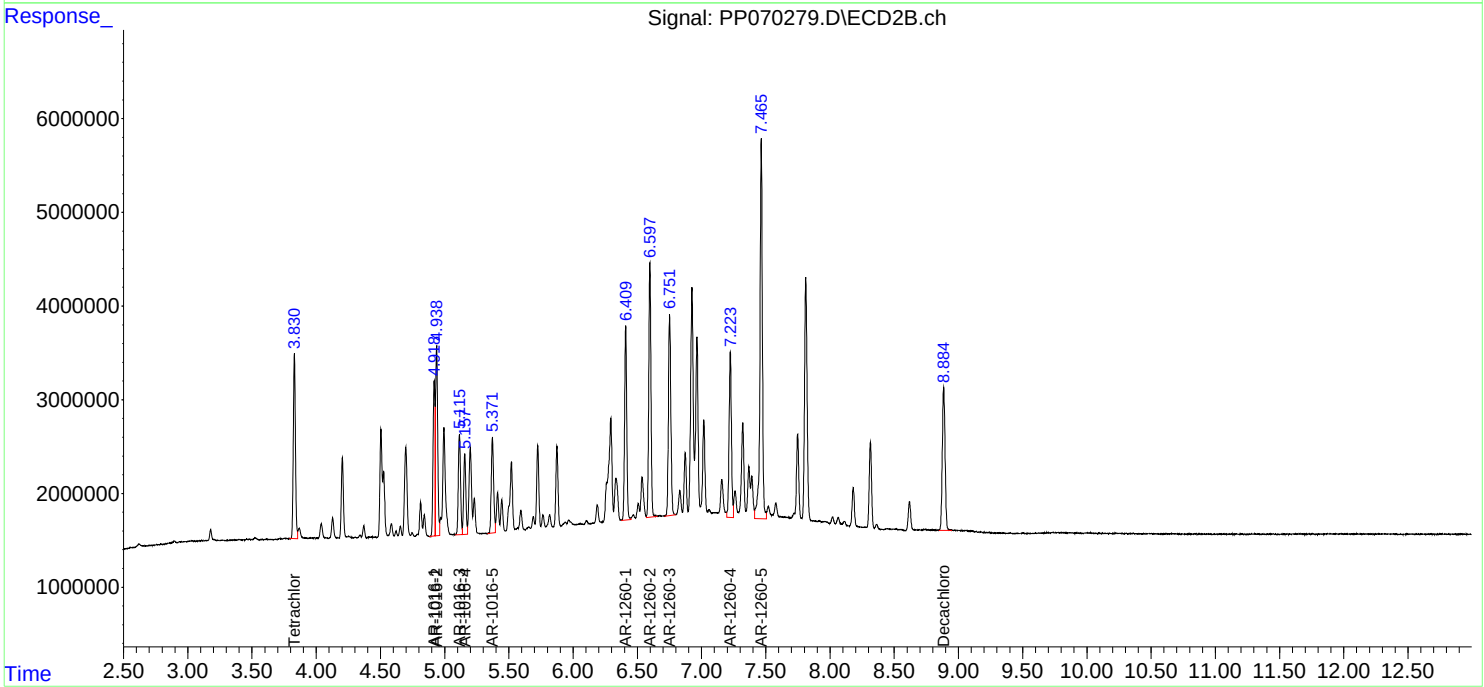
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070279.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 19:35
Operator : YP\AJ
Sample : Q1488-03MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:27:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070280.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 19:51
Operator : YP\AJ
Sample : Q1488-03MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.827	38846906	23542825	26.469	24.626
2)	SA Decachlor...	10.256	8.883	25424556	26137658	22.321	24.110
	Target Compounds						
3)	L1 AR-1016-1	5.678	4.916	26411593	17372931	530.075	520.170
4)	L1 AR-1016-2	5.700	4.935	37463187	24164652	529.306	518.619
5)	L1 AR-1016-3	5.763	5.113	22874813	13267041	520.800	529.994
6)	L1 AR-1016-4	5.860	5.154	19480889	10392848	537.235	517.812
7)	L1 AR-1016-5	6.153	5.370	17313222	13389835	516.219	516.055
31)	L7 AR-1260-1	7.273	6.408	30531058	25067977	523.150	506.022
32)	L7 AR-1260-2	7.527	6.596	40884109	33460970	500.263	511.478
33)	L7 AR-1260-3	7.886	6.749	28192079	29222122	449.197	484.435
34)	L7 AR-1260-4	8.108	7.222	31836118	23368860	502.139m	478.210
35)	L7 AR-1260-5	8.430	7.463	61409587	60382098	468.116	506.668

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

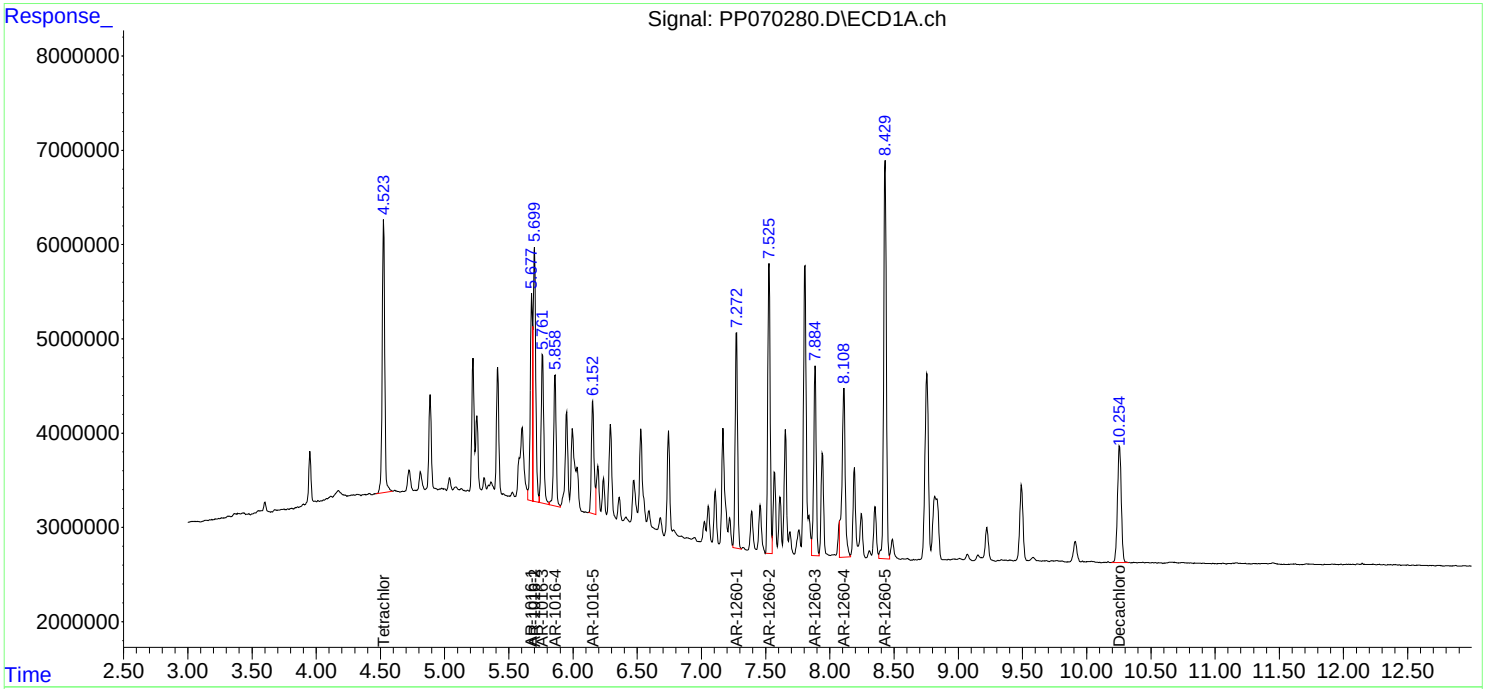
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP030525\
Data File : PP070280.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Mar 2025 19:51
Operator : YP\AJ
Sample : Q1488-03MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

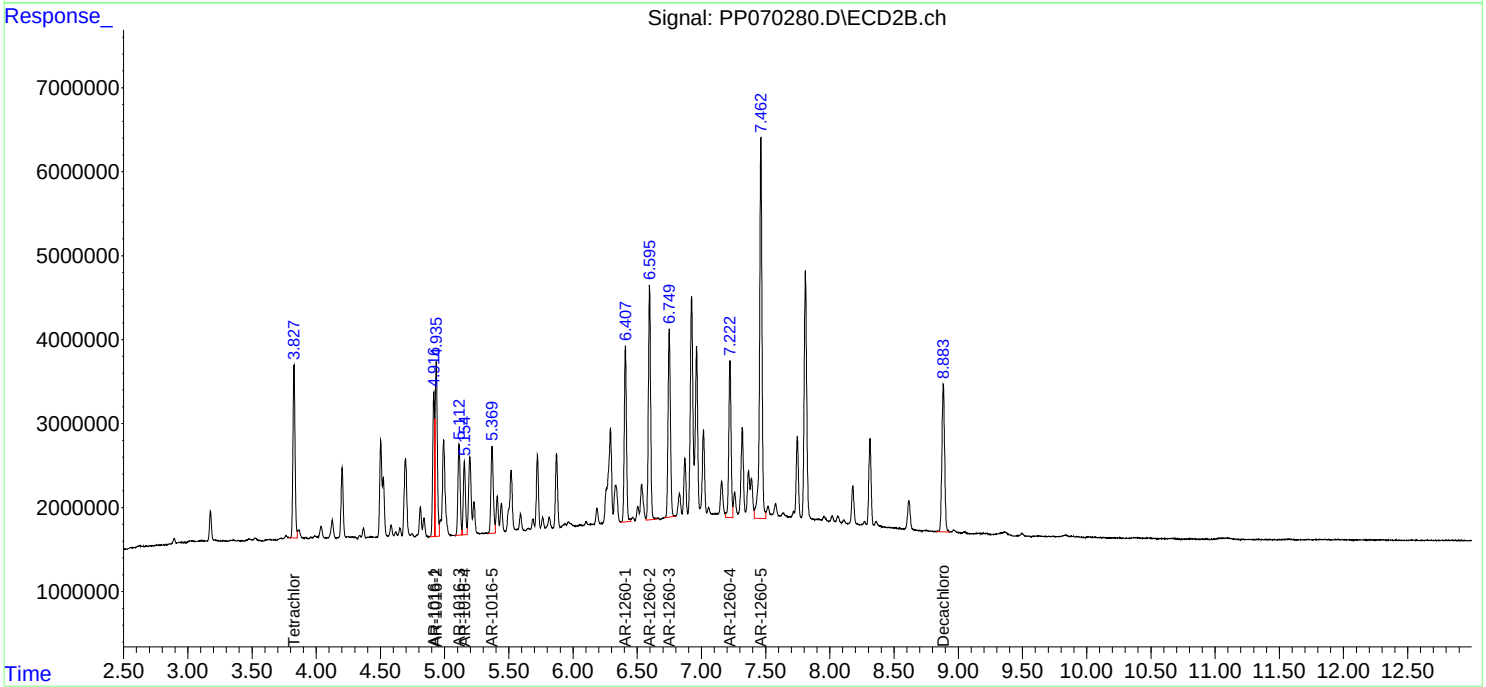
Instrument :
ECD_P
ClientSampleId :
ENV-101-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 06 00:28:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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Manual Integration Report

Sequence:	PO022025	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PO109437.D	AR-1242-5	yogesh	2/21/2025 8:09:35 AM	Ankita	2/21/2025 9:30:25	Peak Integrated by Software
AR1242ICC050	PO109437.D	AR-1242-5 #2	yogesh	2/21/2025 8:09:35 AM	Ankita	2/21/2025 9:30:25	Peak Integrated by Software
AR1248ICC050	PO109442.D	AR-1248-4	yogesh	2/21/2025 8:09:37 AM	Ankita	2/21/2025 9:30:26	Peak Integrated by Software
AR1248ICC050	PO109442.D	AR-1248-4 #2	yogesh	2/21/2025 8:09:37 AM	Ankita	2/21/2025 9:30:26	Peak Integrated by Software
AR1248ICC050	PO109442.D	AR-1248-5	yogesh	2/21/2025 8:09:37 AM	Ankita	2/21/2025 9:30:26	Peak Integrated by Software
AR1248ICC050	PO109442.D	AR-1248-5 #2	yogesh	2/21/2025 8:09:37 AM	Ankita	2/21/2025 9:30:26	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-1	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-1 #2	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-2	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-2 #2	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-3	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-3 #2	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	AR-1254-4	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO022025	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254ICC050	PO109447.D	AR-1254-4 #2	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software
AR1254ICC050	PO109447.D	Tetrachloro-m-xylene	yogesh	2/21/2025 8:09:39 AM	Ankita	2/21/2025 9:30:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO030625	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PO109648.D	AR-1016-5	yogesh	3/7/2025 7:30:27 AM	mohammad	3/8/2025 4:30:17	Peak Integrated by Software
AR1660CCC500	PO109648.D	AR-1016-5 #2	yogesh	3/7/2025 7:30:27 AM	mohammad	3/8/2025 4:30:17	Peak Integrated by Software
AR1660CCC500	PO109662.D	AR-1016-5	yogesh	3/7/2025 7:30:36 AM	mohammad	3/8/2025 4:30:28	Peak Integrated by Software
AR1660CCC500	PO109662.D	AR-1016-5 #2	yogesh	3/7/2025 7:30:36 AM	mohammad	3/8/2025 4:30:28	Peak Integrated by Software
AR1660CCC500	PO109677.D	AR-1016-5	yogesh	3/7/2025 7:30:43 AM	mohammad	3/8/2025 4:30:39	Peak Integrated by Software
AR1660CCC500	PO109677.D	AR-1016-5 #2	yogesh	3/7/2025 7:30:43 AM	mohammad	3/8/2025 4:30:39	Peak Integrated by Software
AR1660CCC500	PO109692.D	AR-1016-5	yogesh	3/7/2025 7:30:54 AM	mohammad	3/8/2025 4:30:58	Peak Integrated by Software
AR1660CCC500	PO109692.D	AR-1016-5 #2	yogesh	3/7/2025 7:30:54 AM	mohammad	3/8/2025 4:30:58	Peak Integrated by Software
AR1254CCC500	PO109695.D	AR-1254-1 #2	yogesh	3/7/2025 7:30:56 AM	mohammad	3/8/2025 4:31:01	Peak Integrated by Software
AR1254CCC500	PO109695.D	AR-1254-2 #2	yogesh	3/7/2025 7:30:56 AM	mohammad	3/8/2025 4:31:01	Peak Integrated by Software
AR1254CCC500	PO109695.D	AR-1254-3 #2	yogesh	3/7/2025 7:30:56 AM	mohammad	3/8/2025 4:31:01	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP070000.D	AR-1016-1	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-4	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-5	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-2 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1221ICC500	PP070001.D	Decachlorobiphenyl	yogesh	2/25/2025 9:00:06 AM	Ankita	2/25/2025 9:47:57	Peak Integrated by Software
AR1242ICC750	PP070004.D	AR-1242-5	yogesh	2/25/2025 9:00:08 AM	Ankita	2/25/2025 9:47:58	Peak Integrated by Software
AR1242ICC250	PP070006.D	AR-1242-5	yogesh	2/25/2025 9:00:09 AM	Ankita	2/25/2025 9:48:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070007.D	AR-1242-1	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-2	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-3	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-4	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-5	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-1	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-2	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-3	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-4	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-5	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1254ICC1000	PP070013.D	AR-1254-1	yogesh	2/25/2025 9:00:14 AM	Ankita	2/25/2025 9:48:05	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-1	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-5	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254ICC050	PP070017.D	AR-1254-1	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-1 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1268ICC750	PP070020.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:19 AM	Ankita	2/25/2025 9:48:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC250	PP070022.D	AR-1268-4 #2	yogesh	2/25/2025 9:00:21 AM	Ankita	2/25/2025 9:48:11	Peak Integrated by Software
AR1268ICC050	PP070023.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:23 AM	Ankita	2/25/2025 9:48:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP030525	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PP070254.D	AR-1254-4 #2	yogesh	3/6/2025 7:42:02 AM	mohammad	3/7/2025 1:29:10	Peak Integrated by Software
AR1242CCC500	PP070260.D	AR-1242-1	yogesh	3/6/2025 7:42:08 AM	mohammad	3/7/2025 1:29:21	Peak Integrated by Software
AR1242CCC500	PP070260.D	AR-1242-1 #2	yogesh	3/6/2025 7:42:08 AM	mohammad	3/7/2025 1:29:21	Peak Integrated by Software
AR1248CCC500	PP070261.D	AR-1248-1 #2	yogesh	3/6/2025 7:42:10 AM	mohammad	3/7/2025 1:29:25	Peak Integrated by Software
AR1254CCC500	PP070262.D	AR-1254-4 #2	yogesh	3/6/2025 7:42:12 AM	mohammad	3/7/2025 1:29:28	Peak Integrated by Software
AR1242CCC500	PP070275.D	AR-1242-1	yogesh	3/6/2025 7:42:25 AM	mohammad	3/7/2025 1:29:34	Peak Integrated by Software
AR1242CCC500	PP070275.D	AR-1242-1 #2	yogesh	3/6/2025 7:42:25 AM	mohammad	3/7/2025 1:29:34	Peak Integrated by Software
AR1248CCC500	PP070276.D	AR-1248-1 #2	yogesh	3/6/2025 7:42:26 AM	mohammad	3/7/2025 1:29:37	Peak Integrated by Software
AR1254CCC500	PP070277.D	AR-1254-4 #2	yogesh	3/6/2025 7:42:28 AM	mohammad	3/7/2025 1:29:39	Peak Integrated by Software
AR1254CCC500	PP070277.D	AR-1254-5	yogesh	3/6/2025 7:42:28 AM	mohammad	3/7/2025 1:29:39	Peak Integrated by Software
Q1488-03MSD	PP070280.D	AR-1260-4	yogesh	3/6/2025 7:42:56 AM	mohammad	3/7/2025 1:29:42	Peak Integrated by Software
AR1242CCC500	PP070290.D	AR-1242-1	yogesh	3/6/2025 7:42:30 AM	mohammad	3/7/2025 1:29:45	Peak Integrated by Software
AR1242CCC500	PP070290.D	AR-1242-1 #2	yogesh	3/6/2025 7:42:30 AM	mohammad	3/7/2025 1:29:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP030525	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1248CCC500	PP070291.D	AR-1248-1 #2	yogesh	3/6/2025 7:42:32 AM	mohammad	3/7/2025 1:29:47	Peak Integrated by Software
AR1254CCC500	PP070292.D	AR-1254-4 #2	yogesh	3/6/2025 7:42:34 AM	mohammad	3/7/2025 1:29:50	Peak Integrated by Software

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO022025

Review By	yogesh	Review On	2/21/2025 8:09:53 AM		
Supervise By	Ankita	Supervise On	2/21/2025 9:30:37 AM		
SubDirectory	PO022025	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO109424.D	20 Feb 2025 16:09	YP/AJ	Ok
2	I.BLK	PO109425.D	20 Feb 2025 16:28	YP/AJ	Ok
3	AR1660ICC1000	PO109426.D	20 Feb 2025 16:46	YP/AJ	Ok
4	AR1660ICC750	PO109427.D	20 Feb 2025 17:04	YP/AJ	Ok
5	AR1660ICC500	PO109428.D	20 Feb 2025 17:23	YP/AJ	Ok
6	AR1660ICC250	PO109429.D	20 Feb 2025 17:41	YP/AJ	Ok
7	AR1660ICC050	PO109430.D	20 Feb 2025 17:59	YP/AJ	Ok
8	AR1221ICC500	PO109431.D	20 Feb 2025 18:18	YP/AJ	Ok
9	AR1232ICC500	PO109432.D	20 Feb 2025 18:36	YP/AJ	Ok
10	AR1242ICC1000	PO109433.D	20 Feb 2025 18:55	YP/AJ	Ok
11	AR1242ICC750	PO109434.D	20 Feb 2025 19:13	YP/AJ	Ok
12	AR1242ICC500	PO109435.D	20 Feb 2025 19:31	YP/AJ	Ok
13	AR1242ICC250	PO109436.D	20 Feb 2025 19:50	YP/AJ	Ok
14	AR1242ICC050	PO109437.D	20 Feb 2025 20:08	YP/AJ	Ok,M
15	AR1248ICC1000	PO109438.D	20 Feb 2025 20:26	YP/AJ	Ok
16	AR1248ICC750	PO109439.D	20 Feb 2025 20:45	YP/AJ	Ok
17	AR1248ICC500	PO109440.D	20 Feb 2025 21:03	YP/AJ	Ok
18	AR1248ICC250	PO109441.D	20 Feb 2025 21:21	YP/AJ	Ok
19	AR1248ICC050	PO109442.D	20 Feb 2025 21:40	YP/AJ	Ok,M
20	AR1254ICC1000	PO109443.D	20 Feb 2025 21:58	YP/AJ	Ok
21	AR1254ICC750	PO109444.D	20 Feb 2025 22:17	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO022025

Review By	yogesh	Review On	2/21/2025 8:09:53 AM		
Supervise By	Ankita	Supervise On	2/21/2025 9:30:37 AM		
SubDirectory	PO022025	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PO109445.D	20 Feb 2025 22:35	YP/AJ	Ok
23	AR1254ICC250	PO109446.D	20 Feb 2025 22:53	YP/AJ	Ok
24	AR1254ICC050	PO109447.D	20 Feb 2025 23:12	YP/AJ	Ok,M
25	AR1262ICC500	PO109448.D	20 Feb 2025 23:30	YP/AJ	Ok
26	AR1268ICC1000	PO109449.D	20 Feb 2025 23:48	YP/AJ	Ok
27	AR1268ICC750	PO109450.D	21 Feb 2025 00:07	YP/AJ	Ok
28	AR1268ICC500	PO109451.D	21 Feb 2025 00:25	YP/AJ	Ok
29	AR1268ICC250	PO109452.D	21 Feb 2025 00:43	YP/AJ	Ok
30	AR1268ICC050	PO109453.D	21 Feb 2025 01:02	YP/AJ	Ok
31	PO022025ICV500	PO109454.D	21 Feb 2025 01:20	YP/AJ	Ok
32	AR1242ICV500	PO109455.D	21 Feb 2025 01:38	YP/AJ	Ok
33	AR1248ICV500	PO109456.D	21 Feb 2025 01:57	YP/AJ	Ok
34	AR1254ICV500	PO109457.D	21 Feb 2025 02:15	YP/AJ	Ok
35	AR1268ICV500	PO109458.D	21 Feb 2025 02:34	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO109647.D	06 Mar 2025 09:28	YP/AJ	Ok
2	AR1660CCC500	PO109648.D	06 Mar 2025 10:05	YP/AJ	Ok,M
3	AR1242CCC500	PO109649.D	06 Mar 2025 10:24	YP/AJ	Ok
4	AR1248CCC500	PO109650.D	06 Mar 2025 10:42	YP/AJ	Ok
5	AR1254CCC500	PO109651.D	06 Mar 2025 11:00	YP/AJ	Ok
6	I.BLK	PO109652.D	06 Mar 2025 11:20	YP/AJ	Ok
7	PB167003BL	PO109653.D	06 Mar 2025 12:29	YP/AJ	Ok
8	PB167003BS	PO109654.D	06 Mar 2025 12:47	YP/AJ	Ok
9	Q1498-01	PO109655.D	06 Mar 2025 13:06	YP/AJ	Ok,M
10	Q1498-02	PO109656.D	06 Mar 2025 13:24	YP/AJ	Ok,M
11	Q1498-03	PO109657.D	06 Mar 2025 13:43	YP/AJ	Ok
12	Q1498-04	PO109658.D	06 Mar 2025 14:01	YP/AJ	Ok,M
13	Q1498-05	PO109659.D	06 Mar 2025 14:20	YP/AJ	Ok
14	Q1498-06	PO109660.D	06 Mar 2025 14:37	YP/AJ	Ok
15	Q1498-07	PO109661.D	06 Mar 2025 14:55	YP/AJ	Ok,M
16	AR1660CCC500	PO109662.D	06 Mar 2025 16:11	YP/AJ	Ok,M
17	AR1242CCC500	PO109663.D	06 Mar 2025 16:47	YP/AJ	Ok
18	AR1248CCC500	PO109664.D	06 Mar 2025 17:06	YP/AJ	Ok
19	AR1254CCC500	PO109665.D	06 Mar 2025 17:24	YP/AJ	Ok
20	I.BLK	PO109666.D	06 Mar 2025 18:01	YP/AJ	Ok
21	PB167009BL	PO109667.D	06 Mar 2025 18:19	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB167009BS	PO109668.D	06 Mar 2025 18:38	YP/AJ	Ok
23	PB167009BSD	PO109669.D	06 Mar 2025 18:56	YP/AJ	Ok
24	Q1488-13	PO109670.D	06 Mar 2025 19:15	YP/AJ	Ok
25	Q1488-14	PO109671.D	06 Mar 2025 19:33	YP/AJ	Ok
26	Q1494-01	PO109672.D	06 Mar 2025 19:51	YP/AJ	Ok
27	Q1437-07	PO109673.D	06 Mar 2025 20:10	YP/AJ	Dilution
28	Q1437-10	PO109674.D	06 Mar 2025 20:28	YP/AJ	Ok,M
29	Q1438-03	PO109675.D	06 Mar 2025 20:47	YP/AJ	Dilution
30	Q1438-05	PO109676.D	06 Mar 2025 21:04	YP/AJ	Dilution
31	AR1660CCC500	PO109677.D	06 Mar 2025 22:19	YP/AJ	Ok,M
32	AR1242CCC500	PO109678.D	06 Mar 2025 22:56	YP/AJ	Ok
33	AR1248CCC500	PO109679.D	06 Mar 2025 23:14	YP/AJ	Ok
34	AR1254CCC500	PO109680.D	06 Mar 2025 23:33	YP/AJ	Ok
35	I.BLK	PO109681.D	07 Mar 2025 00:09	YP/AJ	Ok
36	PB167022BL	PO109682.D	07 Mar 2025 00:28	YP/AJ	Ok
37	PB167022BS	PO109683.D	07 Mar 2025 00:46	YP/AJ	Ok
38	Q1433-03	PO109684.D	07 Mar 2025 01:05	YP/AJ	Ok,M
39	Q1433-06	PO109685.D	07 Mar 2025 01:23	YP/AJ	Dilution
40	Q1433-09	PO109686.D	07 Mar 2025 01:41	YP/AJ	Dilution
41	Q1434-02	PO109687.D	07 Mar 2025 02:00	YP/AJ	Dilution
42	Q1434-02MS	PO109688.D	07 Mar 2025 02:18	YP/AJ	Ok,M
43	Q1434-02MSD	PO109689.D	07 Mar 2025 02:37	YP/AJ	Ok,M
44	Q1434-05	PO109690.D	07 Mar 2025 02:55	YP/AJ	Dilution

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q1434-07	PO109691.D	07 Mar 2025 03:13	YP/AJ	Dilution
46	AR1660CCC500	PO109692.D	07 Mar 2025 04:29	YP/AJ	Ok,M
47	AR1242CCC500	PO109693.D	07 Mar 2025 05:05	YP/AJ	Ok
48	AR1248CCC500	PO109694.D	07 Mar 2025 05:24	YP/AJ	Ok
49	AR1254CCC500	PO109695.D	07 Mar 2025 05:42	YP/AJ	Ok,M
50	I.BLK	PO109696.D	07 Mar 2025 06:19	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP069994.D	24 Feb 2025 14:27	YP\AJ	Ok
2	I.BLK	PP069995.D	24 Feb 2025 14:43	YP\AJ	Ok
3	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59	YP\AJ	Ok
4	AR1660ICC750	PP069997.D	24 Feb 2025 15:15	YP\AJ	Ok
5	AR1660ICC500	PP069998.D	24 Feb 2025 15:32	YP\AJ	Ok
6	AR1660ICC250	PP069999.D	24 Feb 2025 15:48	YP\AJ	Ok
7	AR1660ICC050	PP070000.D	24 Feb 2025 16:04	YP\AJ	Ok,M
8	AR1221ICC500	PP070001.D	24 Feb 2025 16:20	YP\AJ	Ok,M
9	AR1232ICC500	PP070002.D	24 Feb 2025 16:37	YP\AJ	Ok
10	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53	YP\AJ	Ok
11	AR1242ICC750	PP070004.D	24 Feb 2025 17:09	YP\AJ	Ok,M
12	AR1242ICC500	PP070005.D	24 Feb 2025 17:25	YP\AJ	Ok
13	AR1242ICC250	PP070006.D	24 Feb 2025 17:42	YP\AJ	Ok,M
14	AR1242ICC050	PP070007.D	24 Feb 2025 17:58	YP\AJ	Ok,M
15	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14	YP\AJ	Ok
16	AR1248ICC750	PP070009.D	24 Feb 2025 18:30	YP\AJ	Ok
17	AR1248ICC500	PP070010.D	24 Feb 2025 18:46	YP\AJ	Ok
18	AR1248ICC250	PP070011.D	24 Feb 2025 19:03	YP\AJ	Ok
19	AR1248ICC050	PP070012.D	24 Feb 2025 19:19	YP\AJ	Ok,M
20	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35	YP\AJ	Ok,M
21	AR1254ICC750	PP070014.D	24 Feb 2025 19:51	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP070015.D	24 Feb 2025 20:08	YP\AJ	Ok
23	AR1254ICC250	PP070016.D	24 Feb 2025 20:24	YP\AJ	Ok
24	AR1254ICC050	PP070017.D	24 Feb 2025 20:40	YP\AJ	Ok,M
25	AR1262ICC500	PP070018.D	24 Feb 2025 20:56	YP\AJ	Ok
26	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12	YP\AJ	Ok
27	AR1268ICC750	PP070020.D	24 Feb 2025 21:29	YP\AJ	Ok,M
28	AR1268ICC500	PP070021.D	24 Feb 2025 21:45	YP\AJ	Ok
29	AR1268ICC250	PP070022.D	24 Feb 2025 22:01	YP\AJ	Ok,M
30	AR1268ICC050	PP070023.D	24 Feb 2025 22:17	YP\AJ	Ok,M
31	PP022425ICV500	PP070024.D	24 Feb 2025 22:34	YP\AJ	Ok
32	AR1242ICV500	PP070025.D	24 Feb 2025 22:50	YP\AJ	Ok
33	AR1248ICV500	PP070026.D	24 Feb 2025 23:06	YP\AJ	Ok
34	AR1254ICV500	PP070027.D	24 Feb 2025 23:22	YP\AJ	Ok
35	AR1268ICV500	PP070028.D	24 Feb 2025 23:38	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070250.D	05 Mar 2025 08:31	YP\AJ	Ok
2	AR1660CCC500	PP070251.D	05 Mar 2025 08:47	YP\AJ	Ok
3	AR1242CCC500	PP070252.D	05 Mar 2025 09:04	YP\AJ	Ok
4	AR1248CCC500	PP070253.D	05 Mar 2025 09:20	YP\AJ	Ok
5	AR1254CCC500	PP070254.D	05 Mar 2025 09:36	YP\AJ	Ok,M
6	I.BLK	PP070255.D	05 Mar 2025 09:52	YP\AJ	Ok
7	Q1476-01	PP070256.D	05 Mar 2025 10:09	YP\AJ	ReRun
8	Q1476-01RE	PP070257.D	05 Mar 2025 10:25	YP\AJ	Confirms
9	Q1473-02RE	PP070258.D	05 Mar 2025 11:00	YP\AJ	Confirms
10	AR1660CCC500	PP070259.D	05 Mar 2025 11:49	YP\AJ	Ok
11	AR1242CCC500	PP070260.D	05 Mar 2025 12:05	YP\AJ	Ok,M
12	AR1248CCC500	PP070261.D	05 Mar 2025 12:21	YP\AJ	Ok,M
13	AR1254CCC500	PP070262.D	05 Mar 2025 12:38	YP\AJ	Ok,M
14	I.BLK	PP070263.D	05 Mar 2025 12:54	YP\AJ	Ok
15	PB166985BL	PP070264.D	05 Mar 2025 14:58	YP\AJ	Ok
16	PB166985BS	PP070265.D	05 Mar 2025 15:14	YP\AJ	Ok
17	Q1481-01	PP070266.D	05 Mar 2025 15:31	YP\AJ	Ok
18	Q1482-01	PP070267.D	05 Mar 2025 15:47	YP\AJ	Ok,M
19	Q1484-01	PP070268.D	05 Mar 2025 16:03	YP\AJ	Ok
20	Q1485-01	PP070269.D	05 Mar 2025 16:19	YP\AJ	Ok
21	Q1486-01	PP070270.D	05 Mar 2025 16:36	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1487-01	PP070271.D	05 Mar 2025 16:52	YP\AJ	Ok
23	Q1488-01	PP070272.D	05 Mar 2025 17:08	YP\AJ	Ok
24	Q1488-03	PP070273.D	05 Mar 2025 17:25	YP\AJ	Ok
25	AR1660CCC500	PP070274.D	05 Mar 2025 18:13	YP\AJ	Ok
26	AR1242CCC500	PP070275.D	05 Mar 2025 18:30	YP\AJ	Ok,M
27	AR1248CCC500	PP070276.D	05 Mar 2025 18:46	YP\AJ	Ok,M
28	AR1254CCC500	PP070277.D	05 Mar 2025 19:02	YP\AJ	Ok,M
29	I.BLK	PP070278.D	05 Mar 2025 19:19	YP\AJ	Ok
30	Q1488-03MS	PP070279.D	05 Mar 2025 19:35	YP\AJ	Ok
31	Q1488-03MSD	PP070280.D	05 Mar 2025 19:51	YP\AJ	Ok,M
32	Q1488-05	PP070281.D	05 Mar 2025 20:08	YP\AJ	Ok
33	Q1488-07	PP070282.D	05 Mar 2025 20:24	YP\AJ	Ok
34	Q1488-09	PP070283.D	05 Mar 2025 20:40	YP\AJ	Ok
35	Q1488-11	PP070284.D	05 Mar 2025 20:56	YP\AJ	Ok
36	Q1489-01	PP070285.D	05 Mar 2025 21:13	YP\AJ	Ok
37	Q1489-05	PP070286.D	05 Mar 2025 21:29	YP\AJ	Ok
38	Q1489-09	PP070287.D	05 Mar 2025 21:45	YP\AJ	Ok
39	Q1489-13	PP070288.D	05 Mar 2025 22:02	YP\AJ	Ok
40	AR1660CCC500	PP070289.D	05 Mar 2025 22:50	YP\AJ	Ok
41	AR1242CCC500	PP070290.D	05 Mar 2025 23:07	YP\AJ	Ok,M
42	AR1248CCC500	PP070291.D	05 Mar 2025 23:23	YP\AJ	Ok,M
43	AR1254CCC500	PP070292.D	05 Mar 2025 23:39	YP\AJ	Ok,M
44	I.BLK	PP070293.D	05 Mar 2025 23:56	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO022025

Review By	yogesh	Review On	2/21/2025 8:09:53 AM		
Supervise By	Ankita	Supervise On	2/21/2025 9:30:37 AM		
SubDirectory	PO022025	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO109424.D	20 Feb 2025 16:09		YP/AJ	Ok
2	I.BLK	I.BLK	PO109425.D	20 Feb 2025 16:28		YP/AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PO109426.D	20 Feb 2025 16:46		YP/AJ	Ok
4	AR1660ICC750	AR1660ICC750	PO109427.D	20 Feb 2025 17:04		YP/AJ	Ok
5	AR1660ICC500	AR1660ICC500	PO109428.D	20 Feb 2025 17:23		YP/AJ	Ok
6	AR1660ICC250	AR1660ICC250	PO109429.D	20 Feb 2025 17:41		YP/AJ	Ok
7	AR1660ICC050	AR1660ICC050	PO109430.D	20 Feb 2025 17:59		YP/AJ	Ok
8	AR1221ICC500	AR1221ICC500	PO109431.D	20 Feb 2025 18:18		YP/AJ	Ok
9	AR1232ICC500	AR1232ICC500	PO109432.D	20 Feb 2025 18:36		YP/AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PO109433.D	20 Feb 2025 18:55		YP/AJ	Ok
11	AR1242ICC750	AR1242ICC750	PO109434.D	20 Feb 2025 19:13		YP/AJ	Ok
12	AR1242ICC500	AR1242ICC500	PO109435.D	20 Feb 2025 19:31		YP/AJ	Ok
13	AR1242ICC250	AR1242ICC250	PO109436.D	20 Feb 2025 19:50		YP/AJ	Ok
14	AR1242ICC050	AR1242ICC050	PO109437.D	20 Feb 2025 20:08		YP/AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PO109438.D	20 Feb 2025 20:26		YP/AJ	Ok
16	AR1248ICC750	AR1248ICC750	PO109439.D	20 Feb 2025 20:45		YP/AJ	Ok
17	AR1248ICC500	AR1248ICC500	PO109440.D	20 Feb 2025 21:03		YP/AJ	Ok
18	AR1248ICC250	AR1248ICC250	PO109441.D	20 Feb 2025 21:21		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO022025

Review By	yogesh	Review On	2/21/2025 8:09:53 AM		
Supervise By	Ankita	Supervise On	2/21/2025 9:30:37 AM		
SubDirectory	PO022025	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PO109442.D	20 Feb 2025 21:40		YP/AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PO109443.D	20 Feb 2025 21:58		YP/AJ	Ok
21	AR1254ICC750	AR1254ICC750	PO109444.D	20 Feb 2025 22:17		YP/AJ	Ok
22	AR1254ICC500	AR1254ICC500	PO109445.D	20 Feb 2025 22:35		YP/AJ	Ok
23	AR1254ICC250	AR1254ICC250	PO109446.D	20 Feb 2025 22:53		YP/AJ	Ok
24	AR1254ICC050	AR1254ICC050	PO109447.D	20 Feb 2025 23:12		YP/AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PO109448.D	20 Feb 2025 23:30		YP/AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PO109449.D	20 Feb 2025 23:48		YP/AJ	Ok
27	AR1268ICC750	AR1268ICC750	PO109450.D	21 Feb 2025 00:07		YP/AJ	Ok
28	AR1268ICC500	AR1268ICC500	PO109451.D	21 Feb 2025 00:25		YP/AJ	Ok
29	AR1268ICC250	AR1268ICC250	PO109452.D	21 Feb 2025 00:43		YP/AJ	Ok
30	AR1268ICC050	AR1268ICC050	PO109453.D	21 Feb 2025 01:02		YP/AJ	Ok
31	PO022025ICV500	ICVPO022025	PO109454.D	21 Feb 2025 01:20		YP/AJ	Ok
32	AR1242ICV500	ICVPO022025AR1242	PO109455.D	21 Feb 2025 01:38		YP/AJ	Ok
33	AR1248ICV500	ICVPO022025AR1248	PO109456.D	21 Feb 2025 01:57		YP/AJ	Ok
34	AR1254ICV500	ICVPO022025AR1254	PO109457.D	21 Feb 2025 02:15		YP/AJ	Ok
35	AR1268ICV500	ICVPO022025AR1268	PO109458.D	21 Feb 2025 02:34		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO109647.D	06 Mar 2025 09:28		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO109648.D	06 Mar 2025 10:05		YP/AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PO109649.D	06 Mar 2025 10:24		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO109650.D	06 Mar 2025 10:42		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO109651.D	06 Mar 2025 11:00		YP/AJ	Ok
6	I.BLK	I.BLK	PO109652.D	06 Mar 2025 11:20		YP/AJ	Ok
7	PB167003BL	PB167003BL	PO109653.D	06 Mar 2025 12:29		YP/AJ	Ok
8	PB167003BS	PB167003BS	PO109654.D	06 Mar 2025 12:47		YP/AJ	Ok
9	Q1498-01	4A-4B-4C-1928 BLD-W	PO109655.D	06 Mar 2025 13:06		YP/AJ	Ok,M
10	Q1498-02	5A-5B-5C-1985 BLDG	PO109656.D	06 Mar 2025 13:24		YP/AJ	Ok,M
11	Q1498-03	6A-6B-6C-1985	PO109657.D	06 Mar 2025 13:43		YP/AJ	Ok
12	Q1498-04	7A-7B-7C-ROOF-5	PO109658.D	06 Mar 2025 14:01		YP/AJ	Ok,M
13	Q1498-05	8A-8B-8C-ROOF-5	PO109659.D	06 Mar 2025 14:20		YP/AJ	Ok
14	Q1498-06	9A-9B-9C-ROOF-6	PO109660.D	06 Mar 2025 14:37		YP/AJ	Ok
15	Q1498-07	10A-10B-10C-ROOF-6	PO109661.D	06 Mar 2025 14:55		YP/AJ	Ok,M
16	AR1660CCC500	AR1660CCC500	PO109662.D	06 Mar 2025 16:11		YP/AJ	Ok,M
17	AR1242CCC500	AR1242CCC500	PO109663.D	06 Mar 2025 16:47		YP/AJ	Ok
18	AR1248CCC500	AR1248CCC500	PO109664.D	06 Mar 2025 17:06		YP/AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1254CCC500	AR1254CCC500	PO109665.D	06 Mar 2025 17:24		YP/AJ	Ok
20	I.BLK	I.BLK	PO109666.D	06 Mar 2025 18:01		YP/AJ	Ok
21	PB167009BL	PB167009BL	PO109667.D	06 Mar 2025 18:19		YP/AJ	Ok
22	PB167009BS	PB167009BS	PO109668.D	06 Mar 2025 18:38		YP/AJ	Ok
23	PB167009BSD	PB167009BSD	PO109669.D	06 Mar 2025 18:56		YP/AJ	Ok
24	Q1488-13	ENV-102-GW01	PO109670.D	06 Mar 2025 19:15		YP/AJ	Ok
25	Q1488-14	ENV-104-GW01	PO109671.D	06 Mar 2025 19:33		YP/AJ	Ok
26	Q1494-01	PURGE-WATER	PO109672.D	06 Mar 2025 19:51		YP/AJ	Ok
27	Q1437-07	K084-13B	PO109673.D	06 Mar 2025 20:10	AR1254 + AR1268 Hit, Need 5x Dilution	YP/AJ	Dilution
28	Q1437-10	K084-14B	PO109674.D	06 Mar 2025 20:28	AR1254 + AR1268 Hit	YP/AJ	Ok,M
29	Q1438-03	K084-15C	PO109675.D	06 Mar 2025 20:47	AR1254 + AR1268 Hit, Need 20x Dilution	YP/AJ	Dilution
30	Q1438-05	K084-16C	PO109676.D	06 Mar 2025 21:04	AR1254 + AR1268 Hit, Need 10x Dilution	YP/AJ	Dilution
31	AR1660CCC500	AR1660CCC500	PO109677.D	06 Mar 2025 22:19		YP/AJ	Ok,M
32	AR1242CCC500	AR1242CCC500	PO109678.D	06 Mar 2025 22:56		YP/AJ	Ok
33	AR1248CCC500	AR1248CCC500	PO109679.D	06 Mar 2025 23:14		YP/AJ	Ok
34	AR1254CCC500	AR1254CCC500	PO109680.D	06 Mar 2025 23:33		YP/AJ	Ok
35	I.BLK	I.BLK	PO109681.D	07 Mar 2025 00:09		YP/AJ	Ok
36	PB167022BL	PB167022BL	PO109682.D	07 Mar 2025 00:28		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO030625

Review By	yogesh	Review On	3/6/2025 10:53:50 AM		
Supervise By	mohammad	Supervise On	3/8/2025 4:31:13 AM		
SubDirectory	PO030625	HP Acquire Method		HP Processing Method	PO022025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	PB167022BS	PB167022BS	PO109683.D	07 Mar 2025 00:46		YP/AJ	Ok
38	Q1433-03	K084-1C	PO109684.D	07 Mar 2025 01:05	AR1254 + AR1268 Hit	YP/AJ	Ok,M
39	Q1433-06	K084-2C	PO109685.D	07 Mar 2025 01:23	AR1254 + AR1268 Hit, Need 2x Dilution	YP/AJ	Dilution
40	Q1433-09	K084-3C	PO109686.D	07 Mar 2025 01:41	AR1254 + AR1268 Hit, Need 4x dilution	YP/AJ	Dilution
41	Q1434-02	K084-4C	PO109687.D	07 Mar 2025 02:00	AR1254 + AR1268 Hit, Need 5x dilution	YP/AJ	Dilution
42	Q1434-02MS	K084-4CMS	PO109688.D	07 Mar 2025 02:18	AR1660 Recovery Fai	YP/AJ	Ok,M
43	Q1434-02MSD	K084-4CMSD	PO109689.D	07 Mar 2025 02:37		YP/AJ	Ok,M
44	Q1434-05	K084-5C	PO109690.D	07 Mar 2025 02:55	AR1254 + AR1268 Hit, Need 5x dilution	YP/AJ	Dilution
45	Q1434-07	K084-6C	PO109691.D	07 Mar 2025 03:13	AR1254 + AR1268 Hit, need 4x dilution, DCB High in both column	YP/AJ	Dilution
46	AR1660CCC500	AR1660CCC500	PO109692.D	07 Mar 2025 04:29		YP/AJ	Ok,M
47	AR1242CCC500	AR1242CCC500	PO109693.D	07 Mar 2025 05:05		YP/AJ	Ok
48	AR1248CCC500	AR1248CCC500	PO109694.D	07 Mar 2025 05:24		YP/AJ	Ok
49	AR1254CCC500	AR1254CCC500	PO109695.D	07 Mar 2025 05:42		YP/AJ	Ok,M
50	I.BLK	I.BLK	PO109696.D	07 Mar 2025 06:19		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP069994.D	24 Feb 2025 14:27		YP\AJ	Ok
2	I.BLK	I.BLK	PP069995.D	24 Feb 2025 14:43		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP069997.D	24 Feb 2025 15:15		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP069998.D	24 Feb 2025 15:32		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP069999.D	24 Feb 2025 15:48		YP\AJ	Ok
7	AR1660ICC050	AR1660ICC050	PP070000.D	24 Feb 2025 16:04		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070001.D	24 Feb 2025 16:20		YP\AJ	Ok,M
9	AR1232ICC500	AR1232ICC500	PP070002.D	24 Feb 2025 16:37		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070004.D	24 Feb 2025 17:09		YP\AJ	Ok,M
12	AR1242ICC500	AR1242ICC500	PP070005.D	24 Feb 2025 17:25		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070006.D	24 Feb 2025 17:42		YP\AJ	Ok,M
14	AR1242ICC050	AR1242ICC050	PP070007.D	24 Feb 2025 17:58		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070009.D	24 Feb 2025 18:30		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070010.D	24 Feb 2025 18:46		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070011.D	24 Feb 2025 19:03		YP\AJ	Ok

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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP070012.D	24 Feb 2025 19:19		YP\AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35		YP\AJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070014.D	24 Feb 2025 19:51		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070015.D	24 Feb 2025 20:08		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070016.D	24 Feb 2025 20:24		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP070017.D	24 Feb 2025 20:40		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP070018.D	24 Feb 2025 20:56		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12		YP\AJ	Ok
27	AR1268ICC750	AR1268ICC750	PP070020.D	24 Feb 2025 21:29		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070021.D	24 Feb 2025 21:45		YP\AJ	Ok
29	AR1268ICC250	AR1268ICC250	PP070022.D	24 Feb 2025 22:01		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070023.D	24 Feb 2025 22:17		YP\AJ	Ok,M
31	PP022425ICV500	ICVPP022425	PP070024.D	24 Feb 2025 22:34		YP\AJ	Ok
32	AR1242ICV500	ICVPP022425AR1242	PP070025.D	24 Feb 2025 22:50		YP\AJ	Ok
33	AR1248ICV500	ICVPP022425AR1248	PP070026.D	24 Feb 2025 23:06		YP\AJ	Ok
34	AR1254ICV500	ICVPP022425AR1254	PP070027.D	24 Feb 2025 23:22		YP\AJ	Ok
35	AR1268ICV500	ICVPP022425AR1268	PP070028.D	24 Feb 2025 23:38		YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070250.D	05 Mar 2025 08:31		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP070251.D	05 Mar 2025 08:47		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP070252.D	05 Mar 2025 09:04		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP070253.D	05 Mar 2025 09:20		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP070254.D	05 Mar 2025 09:36		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP070255.D	05 Mar 2025 09:52		YP\AJ	Ok
7	Q1476-01	TRE-25-0014	PP070256.D	05 Mar 2025 10:09	AR1242 4 peak report, DCB LOW both column	YP\AJ	ReRun
8	Q1476-01RE	TRE-25-0014RE	PP070257.D	05 Mar 2025 10:25	AR1242 4 peak report, DCB LOW both column	YP\AJ	Confirms
9	Q1473-02RE	BUR-1293RE	PP070258.D	05 Mar 2025 11:00	DCB not detected	YP\AJ	Confirms
10	AR1660CCC500	AR1660CCC500	PP070259.D	05 Mar 2025 11:49		YP\AJ	Ok
11	AR1242CCC500	AR1242CCC500	PP070260.D	05 Mar 2025 12:05		YP\AJ	Ok,M
12	AR1248CCC500	AR1248CCC500	PP070261.D	05 Mar 2025 12:21		YP\AJ	Ok,M
13	AR1254CCC500	AR1254CCC500	PP070262.D	05 Mar 2025 12:38		YP\AJ	Ok,M
14	I.BLK	I.BLK	PP070263.D	05 Mar 2025 12:54		YP\AJ	Ok
15	PB166985BL	PB166985BL	PP070264.D	05 Mar 2025 14:58		YP\AJ	Ok
16	PB166985BS	PB166985BS	PP070265.D	05 Mar 2025 15:14		YP\AJ	Ok
17	Q1481-01	WC-K1311	PP070266.D	05 Mar 2025 15:31		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1482-01	OR-03-030425	PP070267.D	05 Mar 2025 15:47		YP\AJ	Ok,M
19	Q1484-01	TR-OTR-COMP-01	PP070268.D	05 Mar 2025 16:03		YP\AJ	Ok
20	Q1485-01	DN-B-41	PP070269.D	05 Mar 2025 16:19		YP\AJ	Ok
21	Q1486-01	DN-B-40	PP070270.D	05 Mar 2025 16:36		YP\AJ	Ok
22	Q1487-01	DN-B-42	PP070271.D	05 Mar 2025 16:52		YP\AJ	Ok
23	Q1488-01	ENV-101-SB01	PP070272.D	05 Mar 2025 17:08		YP\AJ	Ok
24	Q1488-03	ENV-101-SB02	PP070273.D	05 Mar 2025 17:25		YP\AJ	Ok
25	AR1660CCC500	AR1660CCC500	PP070274.D	05 Mar 2025 18:13		YP\AJ	Ok
26	AR1242CCC500	AR1242CCC500	PP070275.D	05 Mar 2025 18:30		YP\AJ	Ok,M
27	AR1248CCC500	AR1248CCC500	PP070276.D	05 Mar 2025 18:46		YP\AJ	Ok,M
28	AR1254CCC500	AR1254CCC500	PP070277.D	05 Mar 2025 19:02		YP\AJ	Ok,M
29	I.BLK	I.BLK	PP070278.D	05 Mar 2025 19:19		YP\AJ	Ok
30	Q1488-03MS	ENV-101-SB02MS	PP070279.D	05 Mar 2025 19:35		YP\AJ	Ok
31	Q1488-03MSD	ENV-101-SB02MSD	PP070280.D	05 Mar 2025 19:51		YP\AJ	Ok,M
32	Q1488-05	ENV-102-SB01	PP070281.D	05 Mar 2025 20:08		YP\AJ	Ok
33	Q1488-07	ENV-102-SB02	PP070282.D	05 Mar 2025 20:24		YP\AJ	Ok
34	Q1488-09	ENV-104-SB01	PP070283.D	05 Mar 2025 20:40		YP\AJ	Ok
35	Q1488-11	ENV-104-SB02	PP070284.D	05 Mar 2025 20:56		YP\AJ	Ok
36	Q1489-01	TP-1	PP070285.D	05 Mar 2025 21:13		YP\AJ	Ok

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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP030525

Review By	yogesh	Review On	3/5/2025 11:09:53 AM		
Supervise By	mohammad	Supervise On	3/7/2025 1:28:32 AM		
SubDirectory	PP030525	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q1489-05	TP-2	PP070286.D	05 Mar 2025 21:29		YP\AJ	Ok
38	Q1489-09	TP-3	PP070287.D	05 Mar 2025 21:45		YP\AJ	Ok
39	Q1489-13	TP-4	PP070288.D	05 Mar 2025 22:02		YP\AJ	Ok
40	AR1660CCC500	AR1660CCC500	PP070289.D	05 Mar 2025 22:50		YP\AJ	Ok
41	AR1242CCC500	AR1242CCC500	PP070290.D	05 Mar 2025 23:07		YP\AJ	Ok,M
42	AR1248CCC500	AR1248CCC500	PP070291.D	05 Mar 2025 23:23		YP\AJ	Ok,M
43	AR1254CCC500	AR1254CCC500	PP070292.D	05 Mar 2025 23:39		YP\AJ	Ok,M
44	I.BLK	I.BLK	PP070293.D	05 Mar 2025 23:56		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB166985

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	03/05/2025
Matrix :	Solid			**Extraction Start Time :**	09:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	03/05/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:10
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24209
Surrogate	1.0ML	200 PPB	PP24123
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2592
Baked Na2SO4	N/A	EP2590
Sand	N/A	E2865
H2SO4 1:1	N/A	EP2565
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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
3/5/25	RS (Ext lab)	Y-P-Pest/PCB
12:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166985

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g// mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166985BL	ABLK985	PCB	30.01	N/A	ritesh	Evelyn	10			U2-1
PB166985BS	ALCS985	PCB	30.02	N/A	ritesh	Evelyn	10			2
Q1481-01	WC-K1311	PCB	30.07	N/A	ritesh	Evelyn	10	E		3
Q1482-01	OR-03-030425	PCB	30.06	N/A	ritesh	Evelyn	10	E		4
Q1484-01	TR-OTR-COMP-01	PCB	30.08	N/A	ritesh	Evelyn	10	E		5
Q1485-01	DN-B-41	PCB	30.03	N/A	ritesh	Evelyn	10	B		6
Q1486-01	DN-B-40	PCB	30.05	N/A	ritesh	Evelyn	10	B		U3-1
Q1487-01	DN-B-42	PCB	30.02	N/A	ritesh	Evelyn	10	C		2
Q1488-01	ENV-101-SB01	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q1488-03	ENV-101-SB02	PCB	30.01	N/A	ritesh	Evelyn	10	E		4
Q1488-03MS	ENV-101-SB02MS	PCB	30.07	N/A	ritesh	Evelyn	10	E		5
Q1488-03MSD	ENV-101-SB02MSD	PCB	30.05	N/A	ritesh	Evelyn	10	E		6
Q1488-05	ENV-102-SB01	PCB	30.08	N/A	ritesh	Evelyn	10	E		U6-1
Q1488-07	ENV-102-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
Q1488-09	ENV-104-SB01	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
Q1488-11	ENV-104-SB02	PCB	30.08	N/A	ritesh	Evelyn	10	E		4
Q1489-01	TP-1	PCB	30.07	N/A	ritesh	Evelyn	10	E		5
Q1489-05	TP-2	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
Q1489-09	TP-3	PCB	30.04	N/A	ritesh	Evelyn	10	E		U7-1
Q1489-13	TP-4	PCB	30.08	N/A	ritesh	Evelyn	10	E		2

RS 3/5

* **Extracts relinquished on the same date as received.**

168955 9:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1482 **WorkList ID :** 188025 **Department :** Extraction **Date :** 03-05-2025 08:27:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1481-01	WC-K1311	Solid	PCB	Cool 4 deg C	PSEG03	H31	03/04/2025	8082A
Q1482-01	OR-03-030425	Solid	PCB	Cool 4 deg C	PSEG05	H31	03/04/2025	8082A
Q1484-01	TR-OTR-COMP-01	Solid	PCB	Cool 4 deg C	PSEG03	H31	03/04/2025	8082A
Q1485-01	DN-B-41	Solid	PCB	Cool 4 deg C	JPCL01	I11	03/04/2025	8082A
Q1486-01	DN-B-40	Solid	PCB	Cool 4 deg C	JPCL01	I11	03/04/2025	8082A
Q1487-01	DN-B-42	Solid	PCB	Cool 4 deg C	JPCL01	I11	03/04/2025	8082A
Q1488-01	ENV-101-SB01	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-03	ENV-101-SB02	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-05	ENV-102-SB01	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-07	ENV-102-SB02	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-09	ENV-104-SB01	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-11	ENV-104-SB02	Solid	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1489-01	TP-1	Solid	PCB	Cool 4 deg C	PSEG03	I22	03/04/2025	8082A
Q1489-05	TP-2	Solid	PCB	Cool 4 deg C	PSEG03	I22	03/04/2025	8082A
Q1489-09	TP-3	Solid	PCB	Cool 4 deg C	PSEG03	I22	03/04/2025	8082A
Q1489-13	TP-4	Solid	PCB	Cool 4 deg C	PSEG03	I22	03/04/2025	8082A

Date/Time 3/5/25 9:05
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: AV SM

Date/Time 3/5/25 9:35
Raw Sample Received by: AV SM
Raw Sample Relinquished by: RJ (Ext Lab)

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EXTRACTION LOGPAGE

PB167009

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	03/06/2025
Matrix :	Water			**Extraction Start Time :**	09:05
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	03/06/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24209
Surrogate	1.0ML	200 PPB	PP24123
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
Hexane	N/A	E3877
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS721. Q1488-13 Limited volume received.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/6/25	RS (EXT Lab)	Y-P-PEST) P 3/6.
13:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167009

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 03/06/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167009BL	ABLK009	PCB	1000	6	RUPESH	ritesh	10			SEP-1
PB167009BS	ALCS009	PCB	1000	6	RUPESH	ritesh	10			2
PB167009BSD	ALCSD009	PCB	1000	6	RUPESH	ritesh	10			3
Q1488-13	ENV-102-GW01	PCB	380	6	RUPESH	ritesh	10	G		4
Q1488-14	ENV-104-GW01	PCB	820	6	RUPESH	ritesh	10	G		5
Q1494-01	PURGE-WATER	PCB	960	6	RUPESH	ritesh	10	P		6

RS
3/6

* **Extracts relinquished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1488 **WorkList ID :** 188067 **Department :** Extraction **Date :** 03-06-2025 08:26:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-13	ENV-102-GW01	Water	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1488-14	ENV-104-GW01	Water	PCB	Cool 4 deg C	PORT06	H31	03/04/2025	8082A
Q1494-01	PURGE-WATER	Water	PCB	Cool 4 deg C	PSEG03	I31	03/05/2025	8082A

Date/Time 3/6/25 9:00
Raw Sample Received by: RS (EXT lab)
Raw Sample Relinquished by: CP SM

Date/Time 3/6/25 9:25
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RS (EXT lab)

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
Q1488-13	**ENV-102-GW01**	**WATER**			**03/04/25**			**03/04/25**
			PCB	8082A		03/06/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**WATER**			**03/04/25**			**03/04/25**
			PCB	8082A		03/06/25	03/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/11/25
Client Sample ID:	PB167020TB	SDG No.:	Q1488
Lab Sample ID:	PB167020TB	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
PS029399.D	1	03/11/25 11:30	03/12/25 10:45	PB167090

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	525		70 (39) - 130 (175)	105%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	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
PS029401.D	1	03/11/25 11:30	03/12/25 11:50	PB167090

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	458		70 (39) - 130 (175)	92%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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
PS029406.D	1	03/11/25 11:30	03/12/25 13:50	PB167090

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	490		70 (39) - 130 (175)	98%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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
PS029407.D	1	03/11/25 11:30	03/12/25 14:14	PB167090

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	542		70 (39) - 130 (175)	108%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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
PS029408.D	1	03/11/25 11:30	03/12/25 14:38	PB167090

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	537		70 (39) - 130 (175)	107%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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
PS029409.D	1	03/11/25 11:30	03/12/25 15:02	PB167090

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	255	*	70 (39) - 130 (175)	51%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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
PS029410.D	1	03/11/25 11:30	03/12/25 15:27	PB167090

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	351		70 (39) - 130 (175)	70%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q1488

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-PS029233.D	PIBLK-PS029233.D	2,4-DCAA	1	500	476	95		70 (39)	130 (175)
		2,4-DCAA	2	500	494	99		70 (39)	130 (175)
I.BLK-PS029395.D	PIBLK-PS029395.D	2,4-DCAA	1	500	500	100		70 (39)	130 (175)
		2,4-DCAA	2	500	478	96		70 (39)	130 (175)
PB167090BL	PB167090BL	2,4-DCAA	1	500	482	96		70 (39)	130 (175)
		2,4-DCAA	2	500	427	85		70 (39)	130 (175)
PB167090BS	PB167090BS	2,4-DCAA	1	500	521	104		70 (39)	130 (175)
		2,4-DCAA	2	500	469	94		70 (39)	130 (175)
PB167020TB	PB167020TB	2,4-DCAA	1	500	525	105		70 (39)	130 (175)
		2,4-DCAA	2	500	417	83		70 (39)	130 (175)
Q1488-02	ENV-101-SB01	2,4-DCAA	1	500	458	92		70 (39)	130 (175)
		2,4-DCAA	2	500	343	69	*	70 (39)	130 (175)
Q1488-02MS	ENV-101-SB01MS	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	365	73		70 (39)	130 (175)
Q1488-02MSD	ENV-101-SB01MSD	2,4-DCAA	1	500	483	97		70 (39)	130 (175)
		2,4-DCAA	2	500	356	71		70 (39)	130 (175)
I.BLK-PS029404.D	PIBLK-PS029404.D	2,4-DCAA	1	500	502	100		70 (39)	130 (175)
		2,4-DCAA	2	500	486	97		70 (39)	130 (175)
Q1488-04	ENV-101-SB02	2,4-DCAA	1	500	490	98		70 (39)	130 (175)
		2,4-DCAA	2	500	363	73		70 (39)	130 (175)
Q1488-06	ENV-102-SB01	2,4-DCAA	1	500	542	108		70 (39)	130 (175)
		2,4-DCAA	2	500	392	78		70 (39)	130 (175)
Q1488-08	ENV-102-SB02	2,4-DCAA	1	500	537	107		70 (39)	130 (175)
		2,4-DCAA	2	500	382	76		70 (39)	130 (175)
Q1488-10	ENV-104-SB01	2,4-DCAA	1	500	255	51	*	70 (39)	130 (175)
		2,4-DCAA	2	500	196	39	*	70 (39)	130 (175)
Q1488-12	ENV-104-SB02	2,4-DCAA	1	500	351	70		70 (39)	130 (175)
		2,4-DCAA	2	500	281	56	*	70 (39)	130 (175)
I.BLK-PS029416.D	PIBLK-PS029416.D	2,4-DCAA	1	500	502	100		70 (39)	130 (175)
		2,4-DCAA	2	500	493	99		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029402.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**ENV-101-SB01MS**											
Q1488-02MS	2,4-D	50	0	52.7	ug/L	105				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	70.2	ug/L	140	*			70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029403.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:	**ENV-101-SB01MSD**											
Q1488-02MSD	2,4-D	50	0	53.1	ug/L	106		1		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	75.8	ug/L	152	*	8		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.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS029398.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167090BS	2,4-D	5	4.80	ug/L	96				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.10	ug/L	102				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167090BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Lab Sample ID: PB167090BL Lab File ID: PS029397.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 03/11/2025

Date Analyzed (1): 03/12/2025 Date Analyzed (2): 03/12/2025

Time Analyzed (1): 09:57 Time Analyzed (2): 09:57

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
PB167090BS	PB167090BS	PS029398.D	03/12/2025	03/12/2025
PB167020TB	PB167020TB	PS029399.D	03/12/2025	03/12/2025
ENV-101-SB01	Q1488-02	PS029401.D	03/12/2025	03/12/2025
ENV-101-SB01MS	Q1488-02MS	PS029402.D	03/12/2025	03/12/2025
ENV-101-SB01MSD	Q1488-02MSD	PS029403.D	03/12/2025	03/12/2025
ENV-101-SB02	Q1488-04	PS029406.D	03/12/2025	03/12/2025
ENV-102-SB01	Q1488-06	PS029407.D	03/12/2025	03/12/2025
ENV-102-SB02	Q1488-08	PS029408.D	03/12/2025	03/12/2025
ENV-104-SB01	Q1488-10	PS029409.D	03/12/2025	03/12/2025
ENV-104-SB02	Q1488-12	PS029410.D	03/12/2025	03/12/2025

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:	PB167090BL	SDG No.:	Q1488
Lab Sample ID:	PB167090BL	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
PS029397.D	1	03/11/25 11:30	03/12/25 09:57	PB167090

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	482		70 (39) - 130 (175)	96%	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:	02/21/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/21/25
Client Sample ID:	PIBLK-PS029233.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PS029233.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
PS029233.D	1		02/21/25	ps022125

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	494		70 (39) - 130 (175)	99%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PS029395.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PS029395.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
PS029395.D	1		03/12/25	ps031225

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	500		70 (39) - 130 (175)	100%	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:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PS029404.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PS029404.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
PS029404.D	1		03/12/25	ps031225

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	502		70 (39) - 130 (175)	100%	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:	03/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/12/25
Client Sample ID:	PIBLK-PS029416.D	SDG No.:	Q1488
Lab Sample ID:	I.BLK-PS029416.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
PS029416.D	1		03/12/25	ps031225

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	502		70 (39) - 130 (175)	100%	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:	PB167090BS	SDG No.:	Q1488
Lab Sample ID:	PB167090BS	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
PS029398.D	1	03/11/25 11:30	03/12/25 10:21	PB167090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.80		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.10		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	521		70 (39) - 130 (175)	104%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MS	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
PS029402.D	1	03/11/25 11:30	03/12/25 12:14	PB167090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	52.7		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	70.2	P	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	489		70 (39) - 130 (175)	98%	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-02MSD	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
PS029403.D	1	03/11/25 11:30	03/12/25 12:38	PB167090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	53.1		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	75.8	P	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	483		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

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_S **Calibration Date(s):** 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029234.D RT 500 = PS029235.D

RT 750 = PS029236.D RT 1000 = PS029237.D RT 1500 = PS029238.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)	9.14	9.14	9.14	9.14	9.14	9.14	9.04	9.24
2,4-D	8.27	8.27	8.27	8.27	8.27	8.27	8.17	8.37
2,4-DCAA	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_S **Calibration Date(s):** 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029234.D RT 500 = PS029235.D

RT 750 = PS029236.D RT 1000 = PS029237.D RT 1500 = PS029238.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)	9.76	9.76	9.76	9.76	9.76	9.76	9.66	9.86
2,4-D	8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
2,4-DCAA	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_S

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029234.D **CF 500 =** PS029235.D

CF 750 = PS029236.D **CF 1000 =** PS029237.D **CF 1500 =** PS029238.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	28468600000	25326000000	23950000000	23359600000	21830500000	24586900000	10
2,4-D	5578960000	4794680000	4576300000	4498750000	4303460000	4750430000	10
2,4-DCAA	4834500000	4175340000	3953240000	3904380000	3735430000	4120580000	10

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Instrument ID: ECD_S

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029234.D **CF 500 =** PS029235.D

CF 750 = PS029236.D **CF 1000 =** PS029237.D **CF 1500 =** PS029238.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9297750000	9072730000	8996050000	9011120000	8805850000	9036700000	2
2,4-D	1363000000	1257020000	1239960000	1254990000	1234500000	1269900000	4
2,4-DCAA	1014780000	934728000	917942000	923871000	910342000	940333000	5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.13	9.14	9.04	9.24	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
2,4-D	8.85	8.86	8.76	8.96	0.01
2,4,5-TP(Silvex)	9.74	9.76	9.66	9.86	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029396.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.132	9.038	9.238	754.570	712.500	5.9
2,4-D	8.267	8.171	8.371	724.490	705.000	2.8
2,4-DCAA	7.156	7.060	7.260	777.430	750.000	3.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029396.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.741	9.656	9.856	742.300	712.500	4.2
2,4-D	8.848	8.761	8.961	701.440	705.000	-0.5
2,4-DCAA	7.620	7.532	7.732	730.650	750.000	-2.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 13:26 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.13	9.14	9.04	9.24	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 13:26 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
2,4-D	8.85	8.86	8.76	8.96	0.01
2,4,5-TP(Silvex)	9.74	9.76	9.66	9.86	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029405.D **Time Analyzed:** 13:26

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.132	9.038	9.238	769.220	712.500	8.0
2,4-D	8.266	8.171	8.371	737.740	705.000	4.6
2,4-DCAA	7.155	7.060	7.260	795.560	750.000	6.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029405.D **Time Analyzed:** 13:26

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.741	9.656	9.856	758.770	712.500	6.5
2,4-D	8.847	8.761	8.961	719.310	705.000	2.0
2,4-DCAA	7.619	7.532	7.732	746.890	750.000	-0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 18:15 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.15	7.16	7.06	7.26	0.01
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.13	9.14	9.04	9.24	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Continuing Calib Date: 03/12/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 18:15 **Initial Calibration Time(s):** 19:56 21:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
2,4-D	8.85	8.86	8.76	8.96	0.01
2,4,5-TP(Silvex)	9.74	9.76	9.66	9.86	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029417.D **Time Analyzed:** 18:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.131	9.038	9.238	768.960	712.500	7.9
2,4-D	8.267	8.171	8.371	735.450	705.000	4.3
2,4-DCAA	7.154	7.060	7.260	797.340	750.000	6.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/12/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029417.D **Time Analyzed:** 18:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.739	9.656	9.856	761.330	712.500	6.9
2,4-D	8.846	8.761	8.961	720.000	705.000	2.1
2,4-DCAA	7.619	7.532	7.732	749.630	750.000	0.0

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/21/2025 02/21/2025

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	02/21/2025	19:32	PS029233.D	7.16	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.16	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.16	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.16	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.16	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.16	0.00
I.BLK	I.BLK	03/12/2025	09:03	PS029395.D	7.16	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	09:27	PS029396.D	7.16	0.00
PB167090BL	PB167090BL	03/12/2025	09:57	PS029397.D	7.16	0.00
PB167090BS	PB167090BS	03/12/2025	10:21	PS029398.D	7.16	0.00
PB167020TB	PB167020TB	03/12/2025	10:45	PS029399.D	7.15	0.00
ENV-101-SB01	Q1488-02	03/12/2025	11:50	PS029401.D	7.16	0.00
ENV-101-SB01MS	Q1488-02MS	03/12/2025	12:14	PS029402.D	7.16	0.00
ENV-101-SB01MSD	Q1488-02MSD	03/12/2025	12:38	PS029403.D	7.16	0.00
I.BLK	I.BLK	03/12/2025	13:02	PS029404.D	7.16	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	13:26	PS029405.D	7.16	0.00
ENV-101-SB02	Q1488-04	03/12/2025	13:50	PS029406.D	7.16	0.00
ENV-102-SB01	Q1488-06	03/12/2025	14:14	PS029407.D	7.16	0.00
ENV-102-SB02	Q1488-08	03/12/2025	14:38	PS029408.D	7.16	0.00
ENV-104-SB01	Q1488-10	03/12/2025	15:02	PS029409.D	7.16	0.00
ENV-104-SB02	Q1488-12	03/12/2025	15:27	PS029410.D	7.16	0.00
I.BLK	I.BLK	03/12/2025	17:51	PS029416.D	7.16	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	18:15	PS029417.D	7.15	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/21/2025 02/21/2025

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	02/21/2025	19:32	PS029233.D	7.63	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.63	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.63	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.63	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.63	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.63	0.00
I.BLK	I.BLK	03/12/2025	09:03	PS029395.D	7.62	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	09:27	PS029396.D	7.62	0.00
PB167090BL	PB167090BL	03/12/2025	09:57	PS029397.D	7.62	0.00
PB167090BS	PB167090BS	03/12/2025	10:21	PS029398.D	7.62	0.00
PB167020TB	PB167020TB	03/12/2025	10:45	PS029399.D	7.62	0.00
ENV-101-SB01	Q1488-02	03/12/2025	11:50	PS029401.D	7.62	0.00
ENV-101-SB01MS	Q1488-02MS	03/12/2025	12:14	PS029402.D	7.62	0.00
ENV-101-SB01MSD	Q1488-02MSD	03/12/2025	12:38	PS029403.D	7.62	0.00
I.BLK	I.BLK	03/12/2025	13:02	PS029404.D	7.62	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	13:26	PS029405.D	7.62	0.00
ENV-101-SB02	Q1488-04	03/12/2025	13:50	PS029406.D	7.62	0.00
ENV-102-SB01	Q1488-06	03/12/2025	14:14	PS029407.D	7.62	0.00
ENV-102-SB02	Q1488-08	03/12/2025	14:38	PS029408.D	7.62	0.00
ENV-104-SB01	Q1488-10	03/12/2025	15:02	PS029409.D	7.62	0.00
ENV-104-SB02	Q1488-12	03/12/2025	15:27	PS029410.D	7.62	0.00
I.BLK	I.BLK	03/12/2025	17:51	PS029416.D	7.62	0.00
HSTDCCC750	HSTDCCC750	03/12/2025	18:15	PS029417.D	7.62	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

ENV-101-SB01MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Lab Sample ID: Q1488-02MS **Date(s) Analyzed:** 03/12/2025 03/12/2025

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	8.27	8.22	8.32	52.7	7.7
	2	8.85	8.80	8.90	48.8	
2,4,5-TP(Silvex)	1	9.13	9.08	9.18	52.1	29.6
	2	9.74	9.69	9.79	70.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

ENV-101-SB01MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Lab Sample ID: Q1488-02MSD **Date(s) Analyzed:** 03/12/2025 03/12/2025

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	8.27	8.22	8.32	53.1	7.2
	2	8.85	8.80	8.90	49.4	
2,4,5-TP(Silvex)	1	9.13	9.08	9.18	52.1	37.1
	2	9.74	9.69	9.79	75.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167090BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1488 **SAS No.:** Q1488 **SDG NO.:** Q1488

Lab Sample ID: PB167090BS **Date(s) Analyzed:** 03/12/2025 03/12/2025

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	9.13	9.08	9.18	5.10	8.2
	2	9.74	9.69	9.79	4.70	
2,4-D	1	8.27	8.22	8.32	4.80	6.5
	2	8.85	8.80	8.90	4.50	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 10:45
Operator : AR\AJ
Sample : PB167020TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167020TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.154	7.619	2163.5E6	392.2E6	525.055m	417.133
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

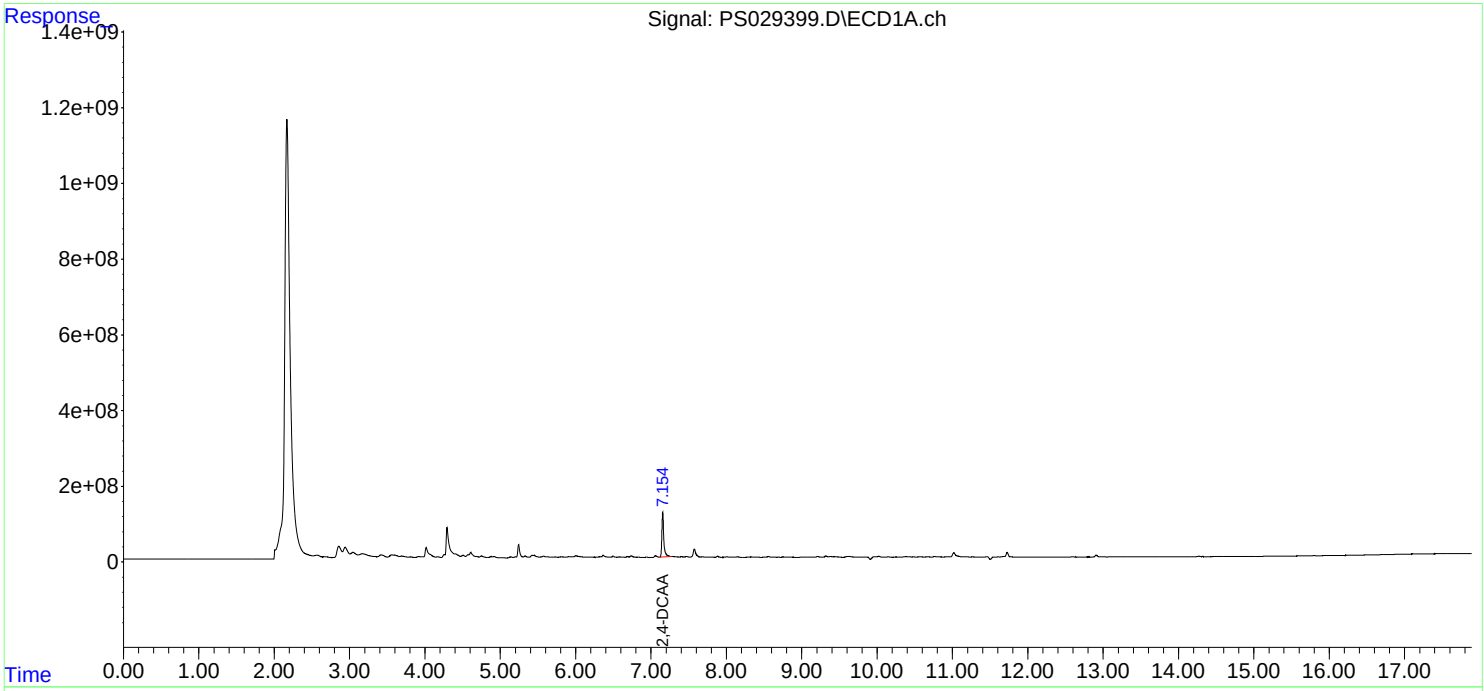
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 10:45
Operator : AR\AJ
Sample : PB167020TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

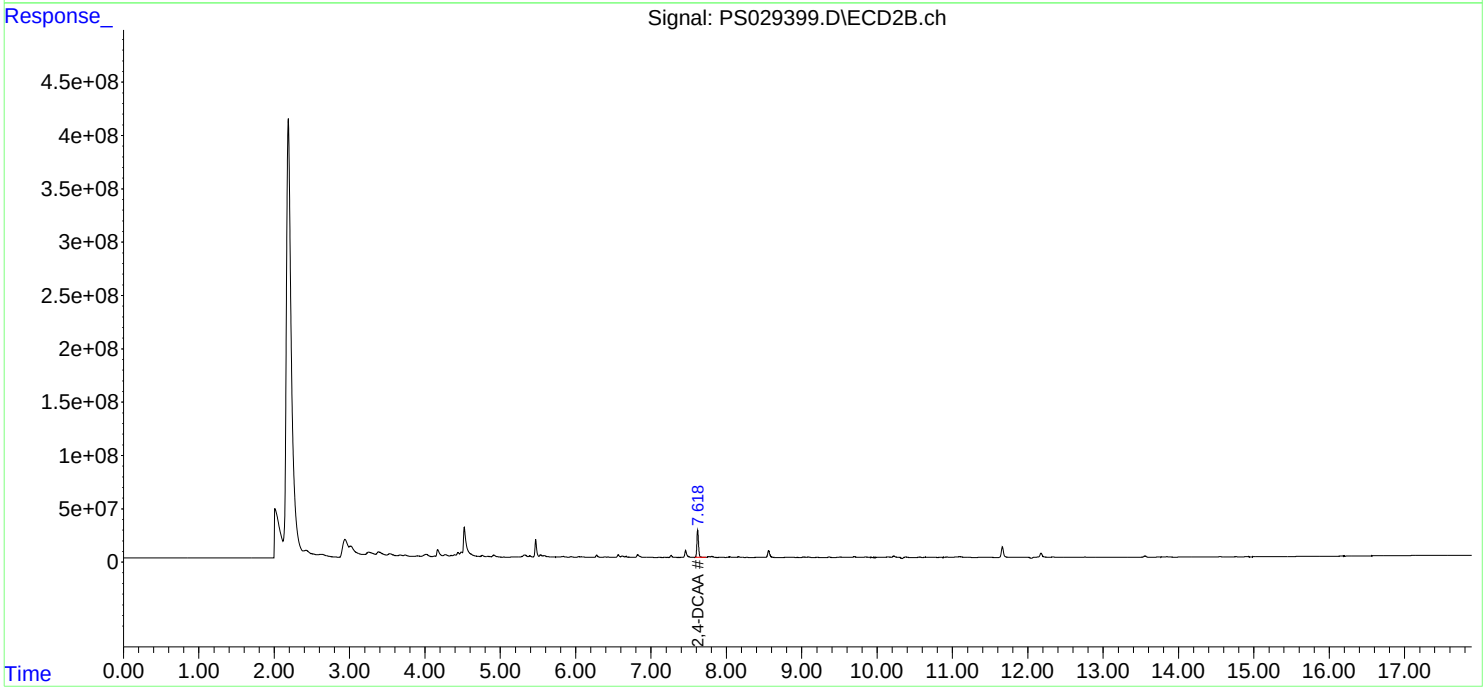
Instrument :
ECD_S
ClientSampleId :
PB167020TB

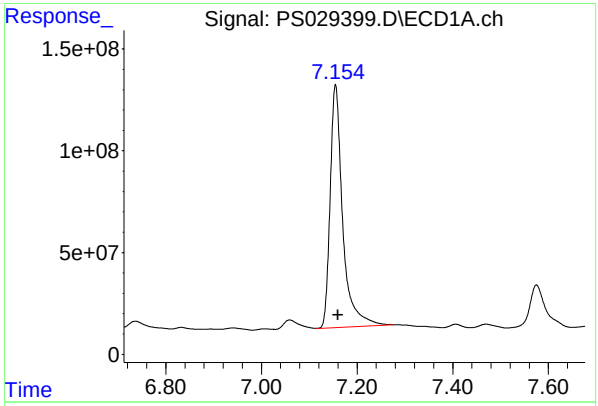
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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







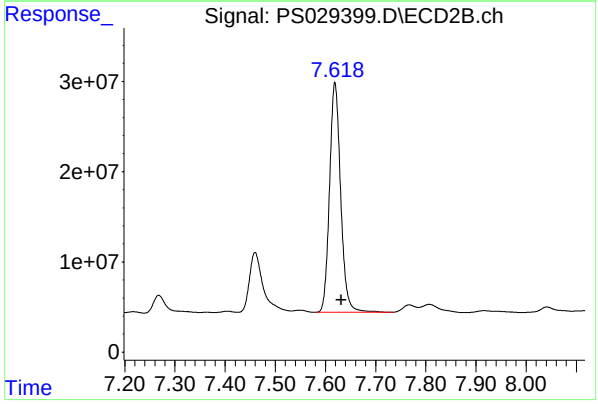
#4 2,4-DCAA

R.T.: 7.154 min
Delta R.T.: -0.005 min
Response: 2163529663
Conc: 525.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167020TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



#4 2,4-DCAA

R.T.: 7.619 min
Delta R.T.: -0.013 min
Response: 392243356
Conc: 417.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029401.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 11:50
Operator : AR\AJ
Sample : Q1488-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.158	7.617	1885.5E6	322.4E6	457.574	342.904	#
	Target Compounds							

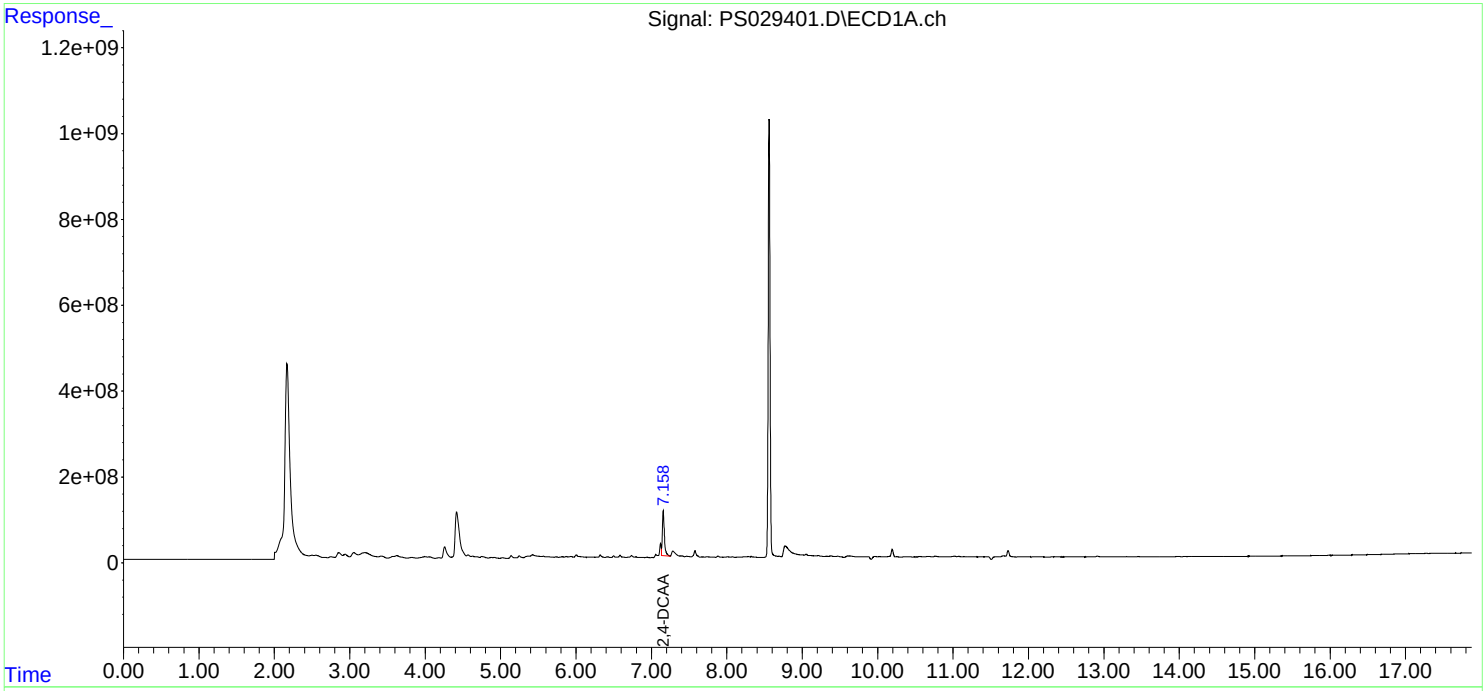
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

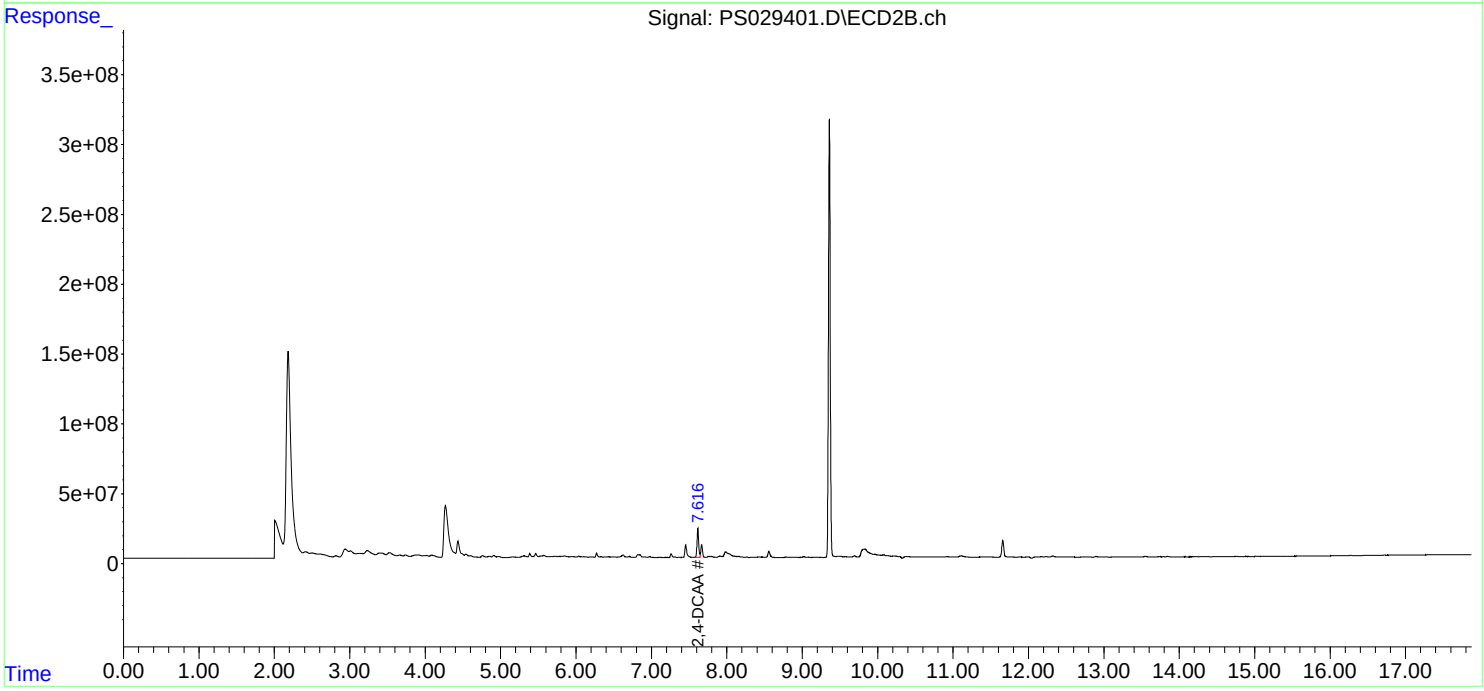
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029401.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 11:50
Operator : AR\AJ
Sample : Q1488-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

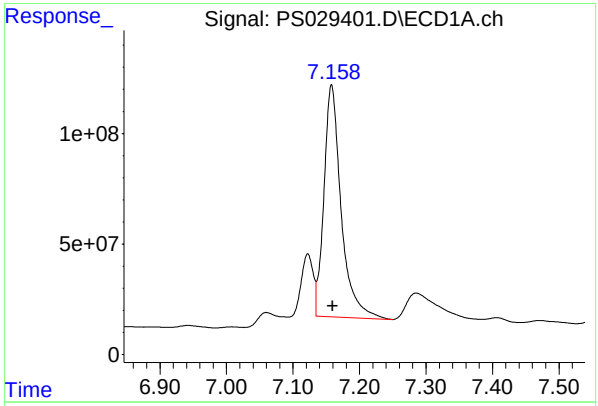
Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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



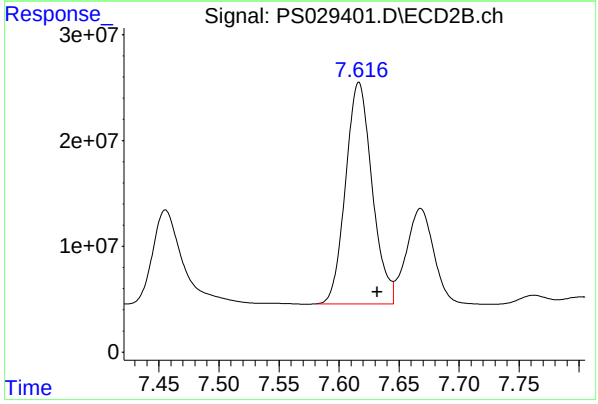




#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: -0.002 min
Response: 1885467323
Conc: 457.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01



#4 2,4-DCAA

R.T.: 7.617 min
Delta R.T.: -0.015 min
Response: 322443923
Conc: 342.90 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029406.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 13:50
Operator : AR\AJ
Sample : Q1488-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.155	7.619	2018.9E6	340.9E6	489.952m	362.498m#
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

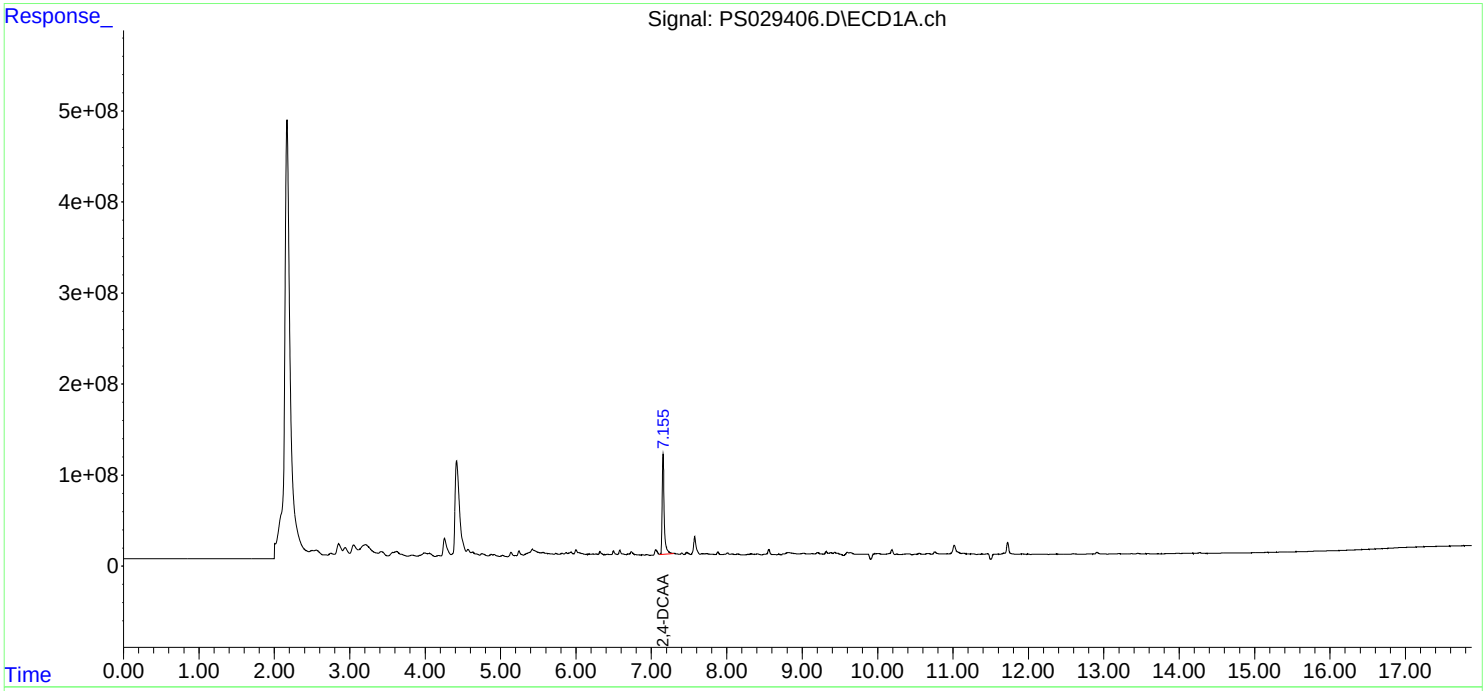
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029406.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 13:50
Operator : AR\AJ
Sample : Q1488-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

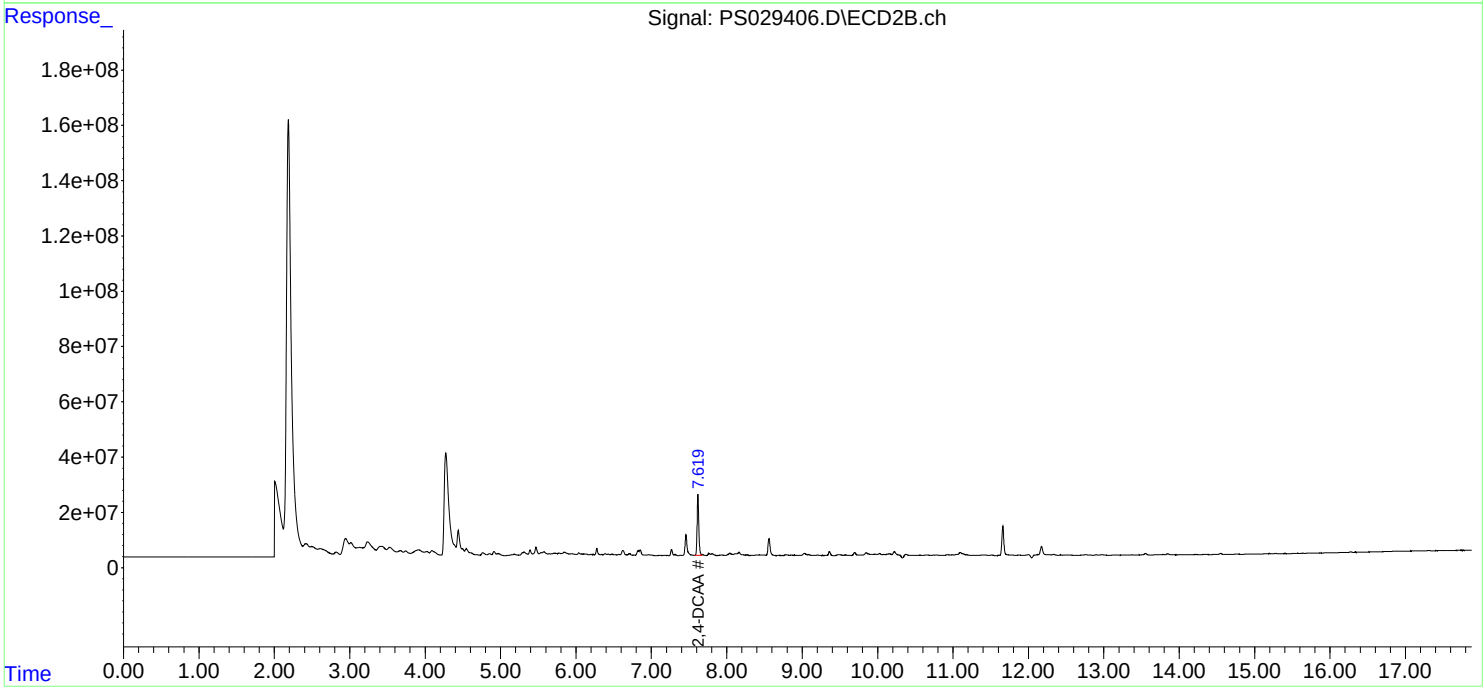
Instrument :
ECD_S
ClientSampleId :
ENV-101-SB02

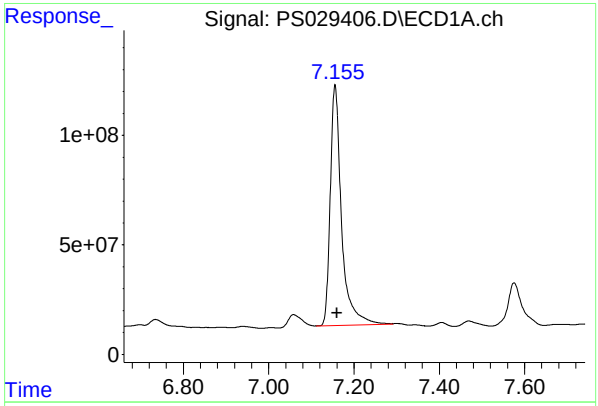
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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







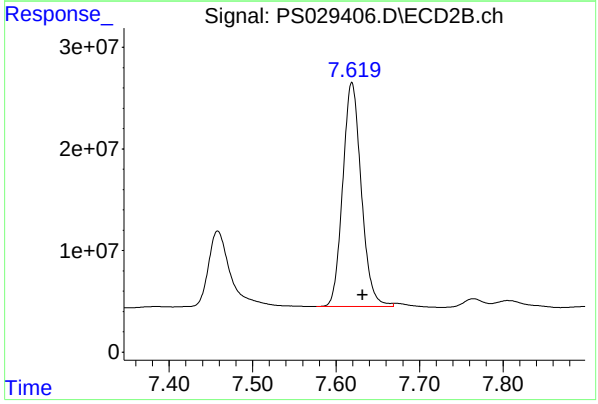
#4 2,4-DCAA

R.T.: 7.155 min
Delta R.T.: -0.005 mi
Response: 2018887357
Conc: 489.95 ng/m

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



#4 2,4-DCAA

R.T.: 7.619 min
Delta R.T.: -0.013 min
Response: 340868419
Conc: 362.50 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029407.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 14:14
Operator : AR\AJ
Sample : Q1488-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-102-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.155	7.618	2232.7E6	368.6E6	541.853m	391.940m#
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

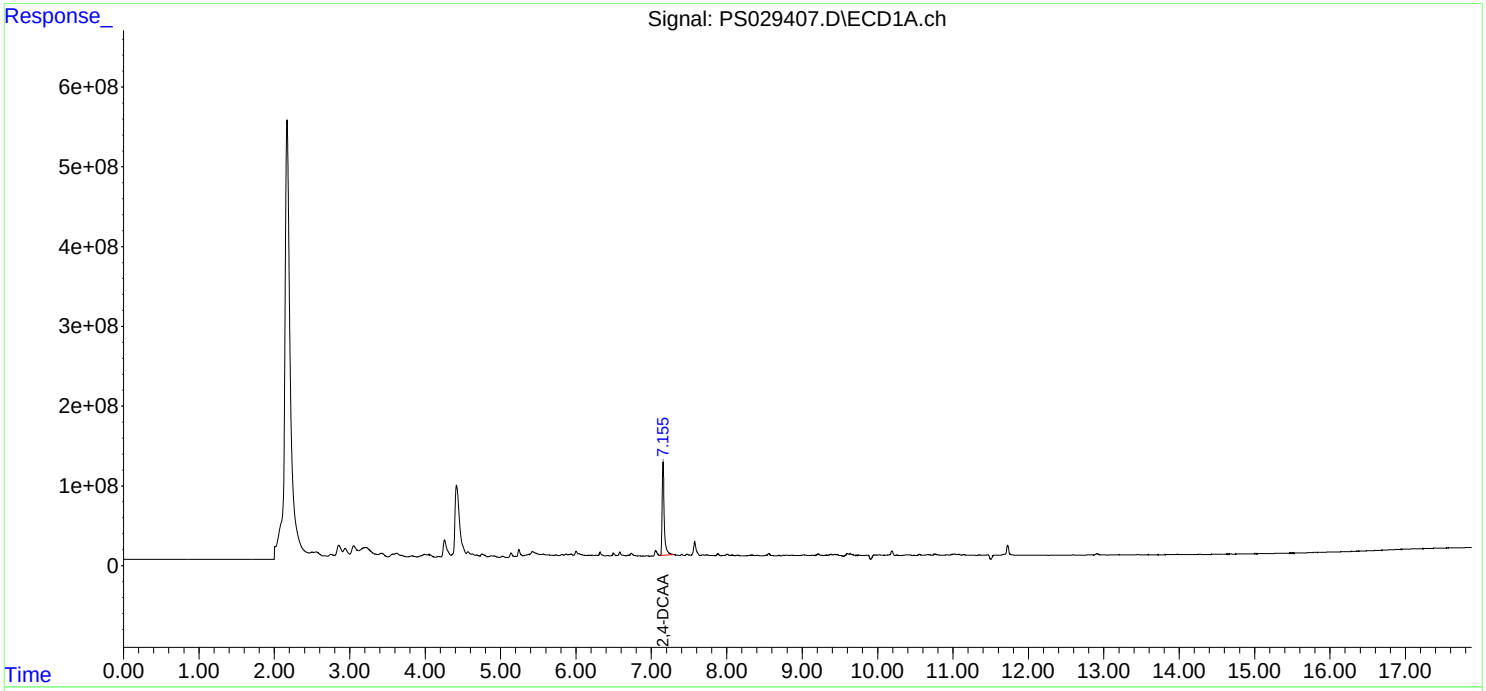
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029407.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 14:14
Operator : AR\AJ
Sample : Q1488-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

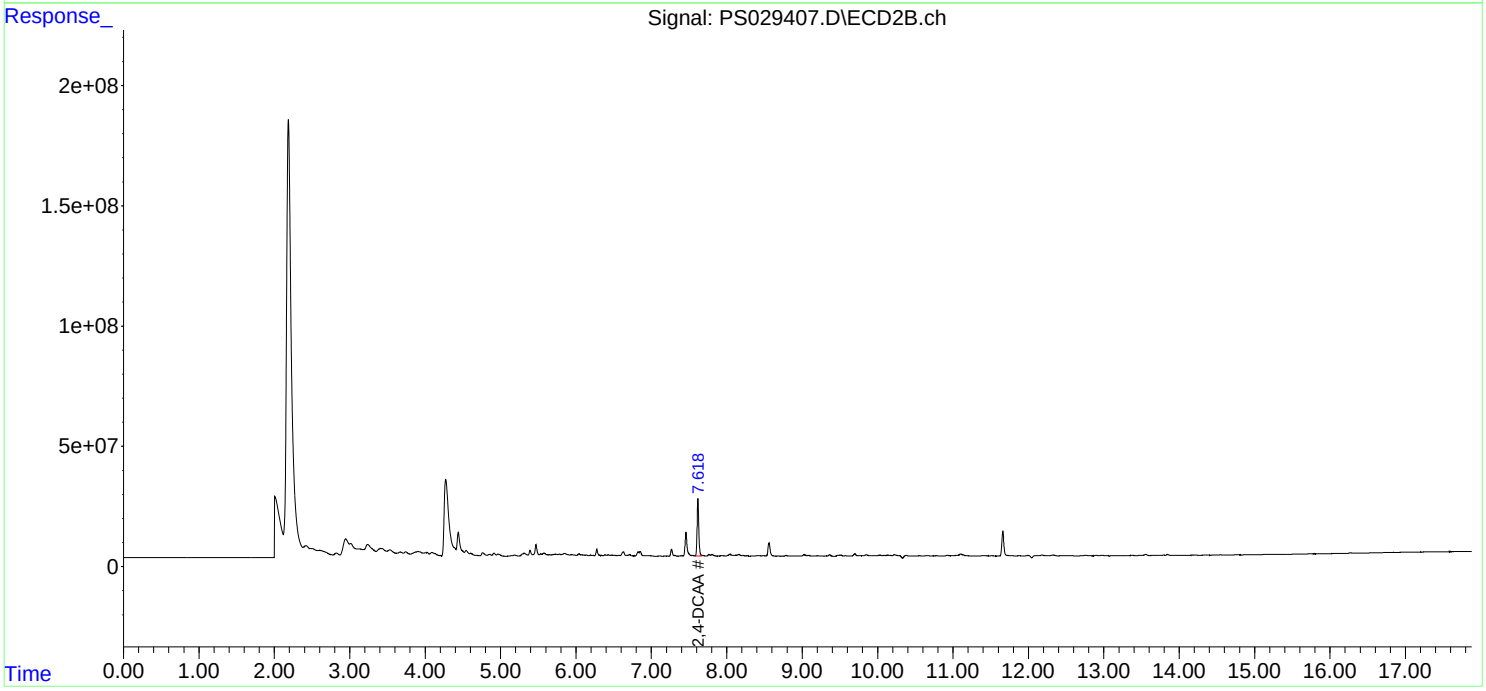
Instrument :
ECD_S
ClientSampleId :
ENV-102-SB01

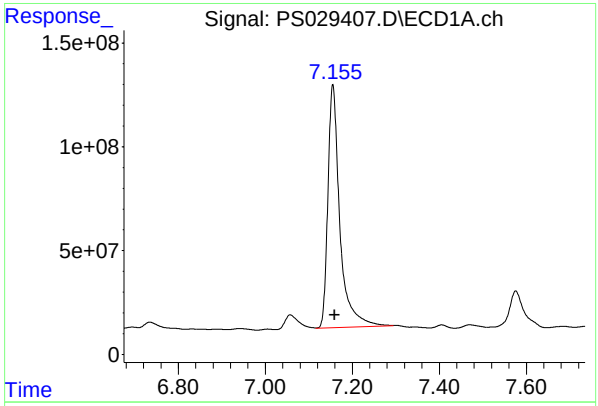
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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







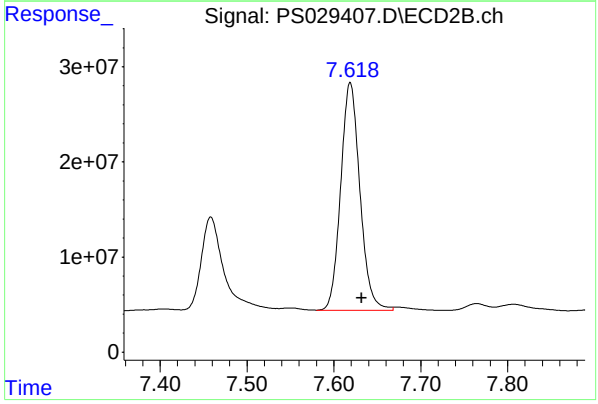
#4 2,4-DCAA

R.T.: 7.155 min
Delta R.T.: -0.005 min
Response: 2232747485
Conc: 541.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
ENV-102-SB01

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



#4 2,4-DCAA

R.T.: 7.618 min
Delta R.T.: -0.014 min
Response: 368554347
Conc: 391.94 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 14:38
Operator : AR\AJ
Sample : Q1488-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-102-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.155	7.618	2214.2E6	359.1E6	537.342m	381.932m#
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

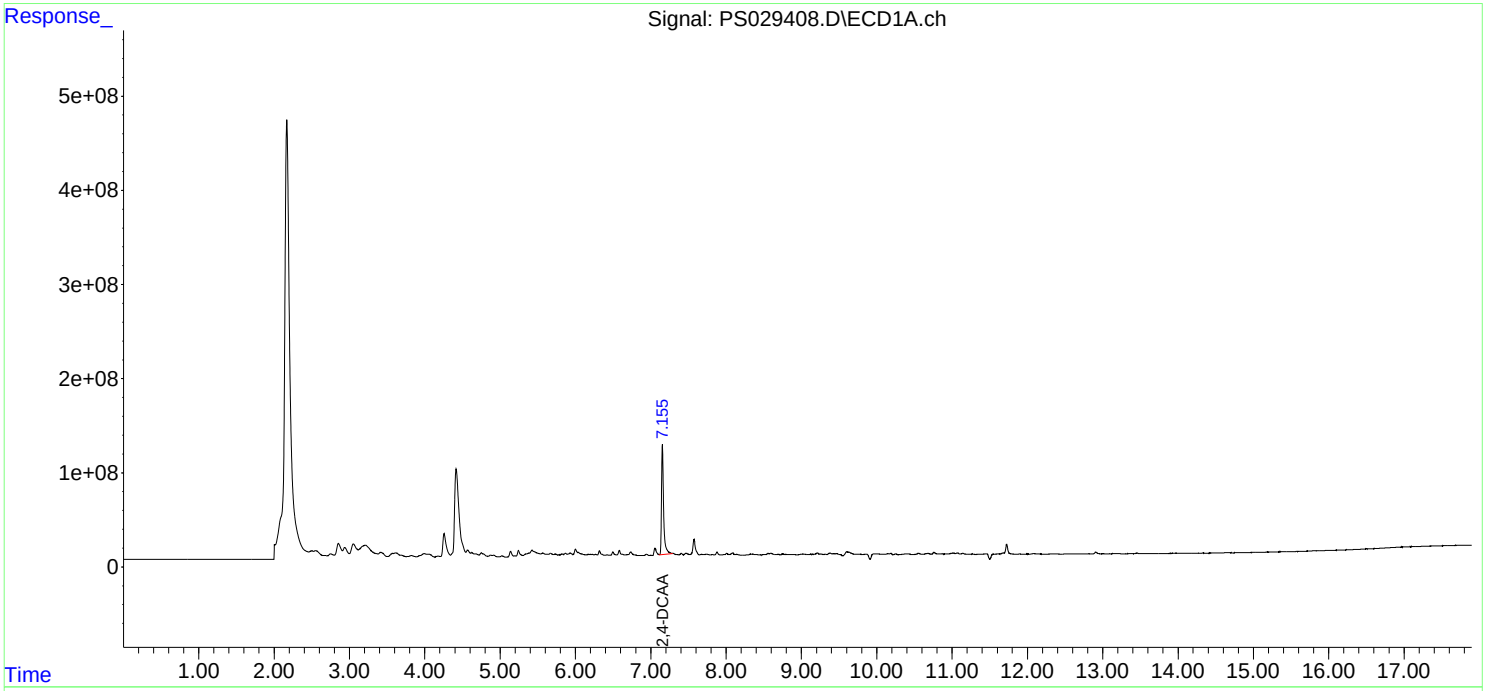
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 14:38
Operator : AR\AJ
Sample : Q1488-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

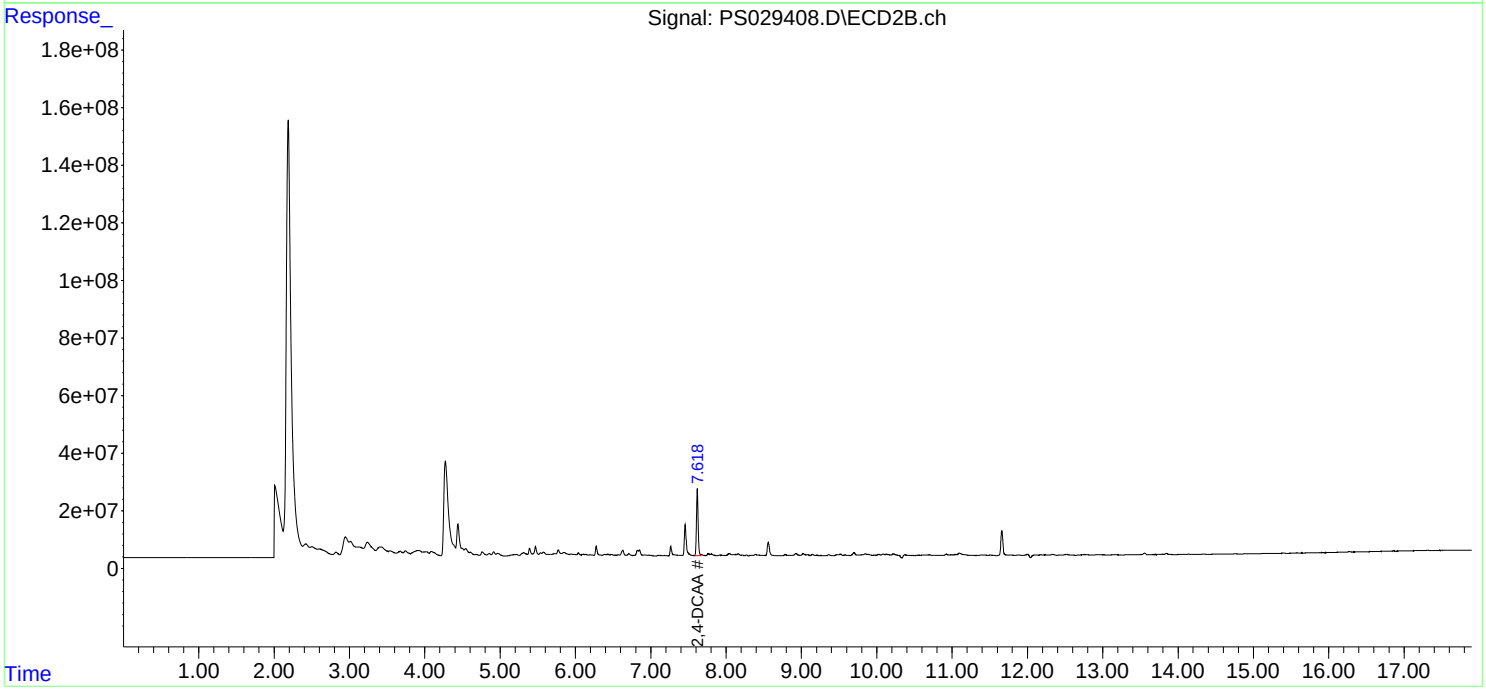
Instrument :
ECD_S
ClientSampleId :
ENV-102-SB02

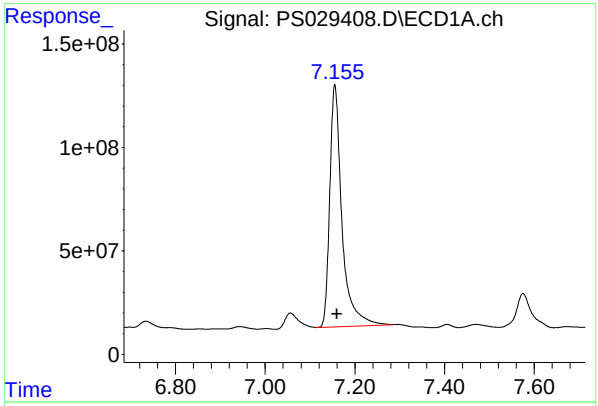
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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







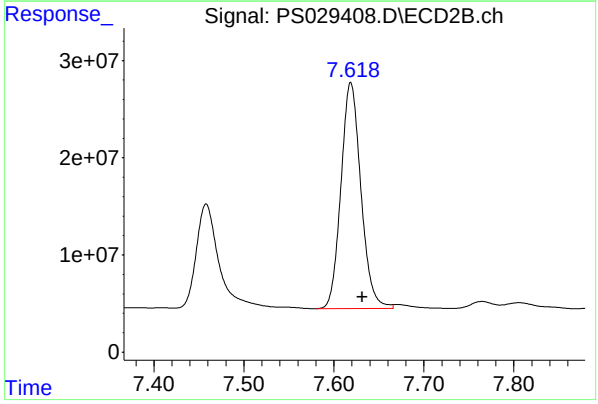
#4 2,4-DCAA

R.T.: 7.155 min
Delta R.T.: -0.005 min
Response: 2214158385
Conc: 537.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
ENV-102-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025



#4 2,4-DCAA

R.T.: 7.618 min
Delta R.T.: -0.014 min
Response: 359143211
Conc: 381.93 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 15:02
Operator : AR\AJ
Sample : Q1488-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-104-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.156	7.619	1050.5E6	184.7E6	254.947	196.418
	Target Compounds						

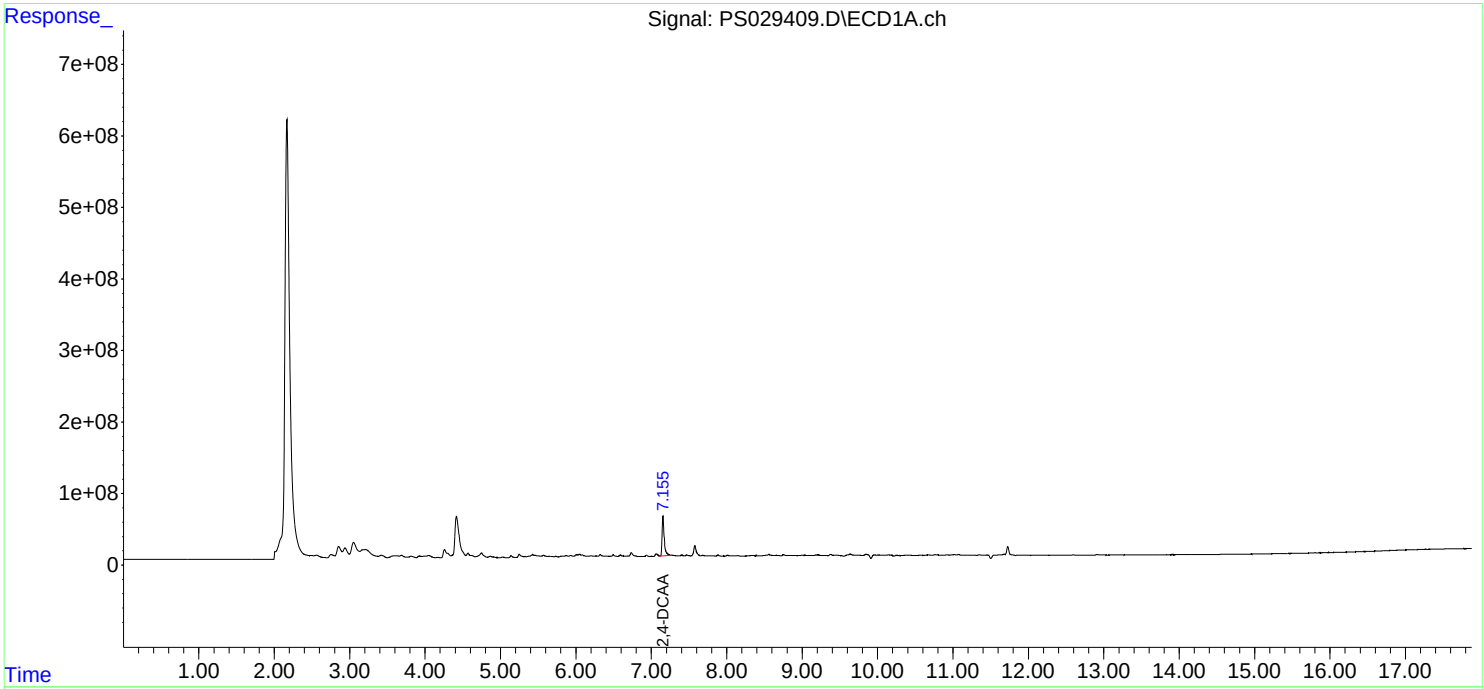
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

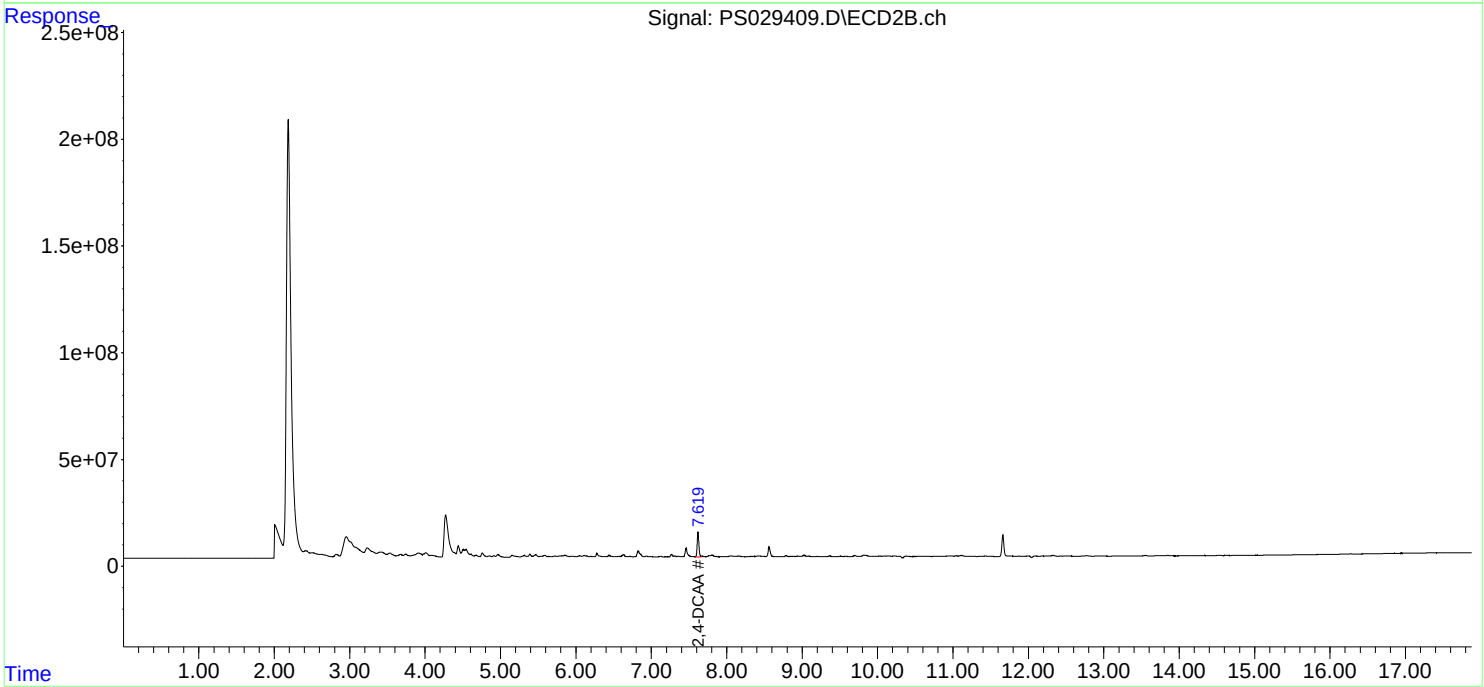
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 15:02
Operator : AR\AJ
Sample : Q1488-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

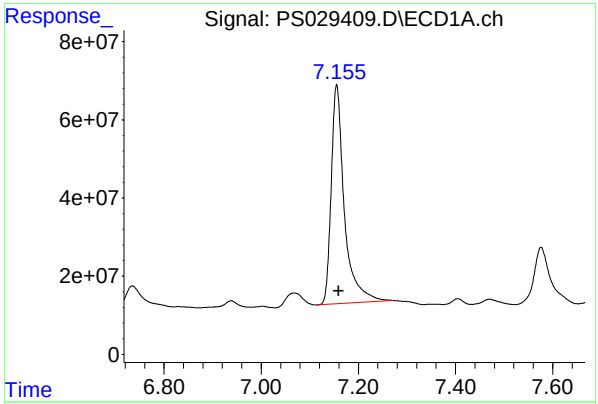
Instrument :
ECD_S
ClientSampleId :
ENV-104-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:30:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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



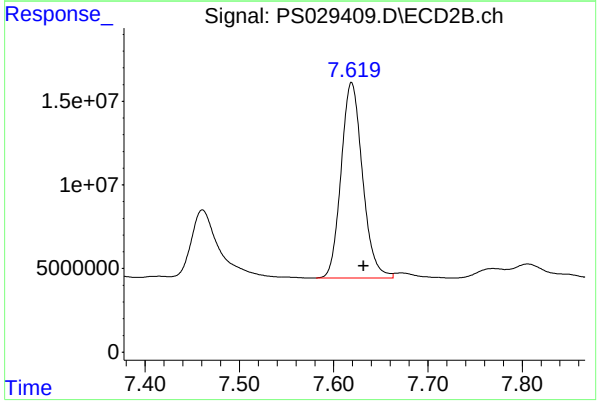




#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.004 min
Response: 1050528376
Conc: 254.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
ENV-104-SB01



#4 2,4-DCAA

R.T.: 7.619 min
Delta R.T.: -0.013 min
Response: 184698120
Conc: 196.42 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029410.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 15:27
Operator : AR\AJ
Sample : Q1488-12
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:31:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.155	7.619	1446.2E6	264.2E6	350.971	280.965
	Target Compounds						

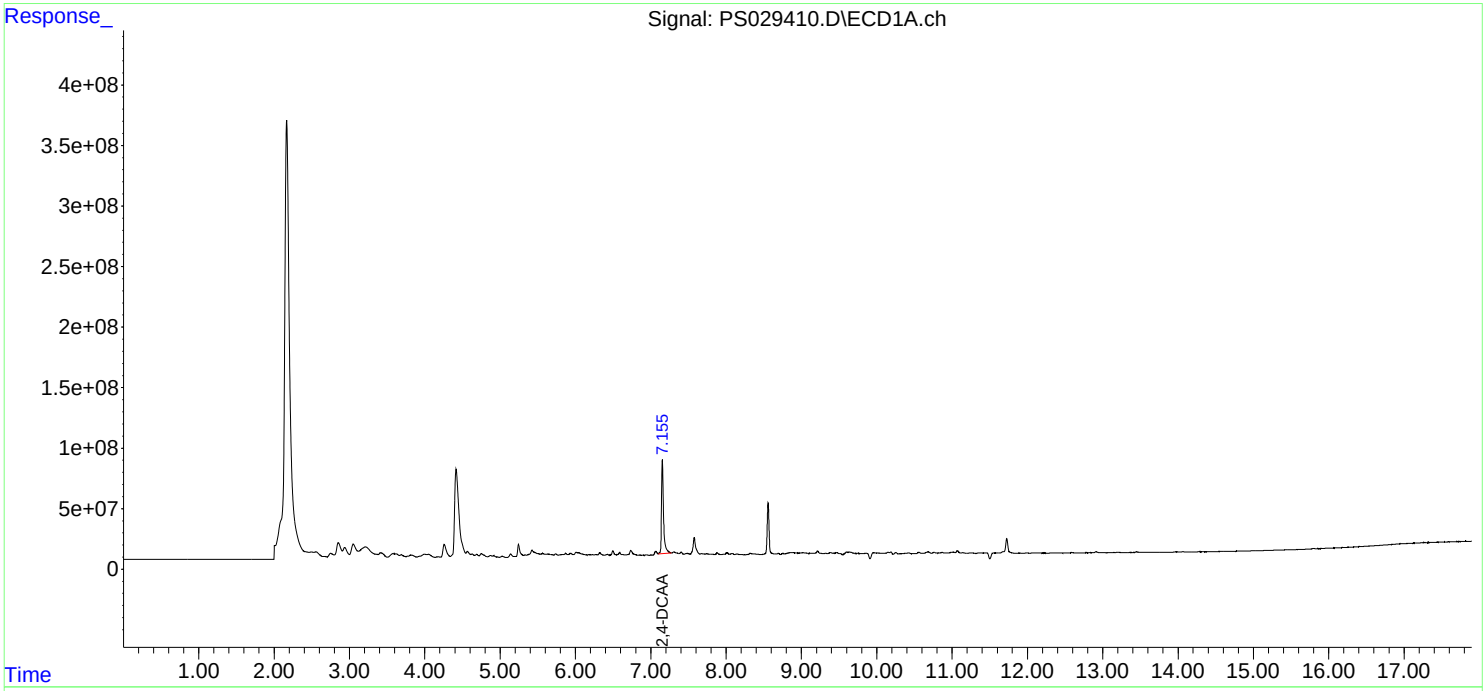
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

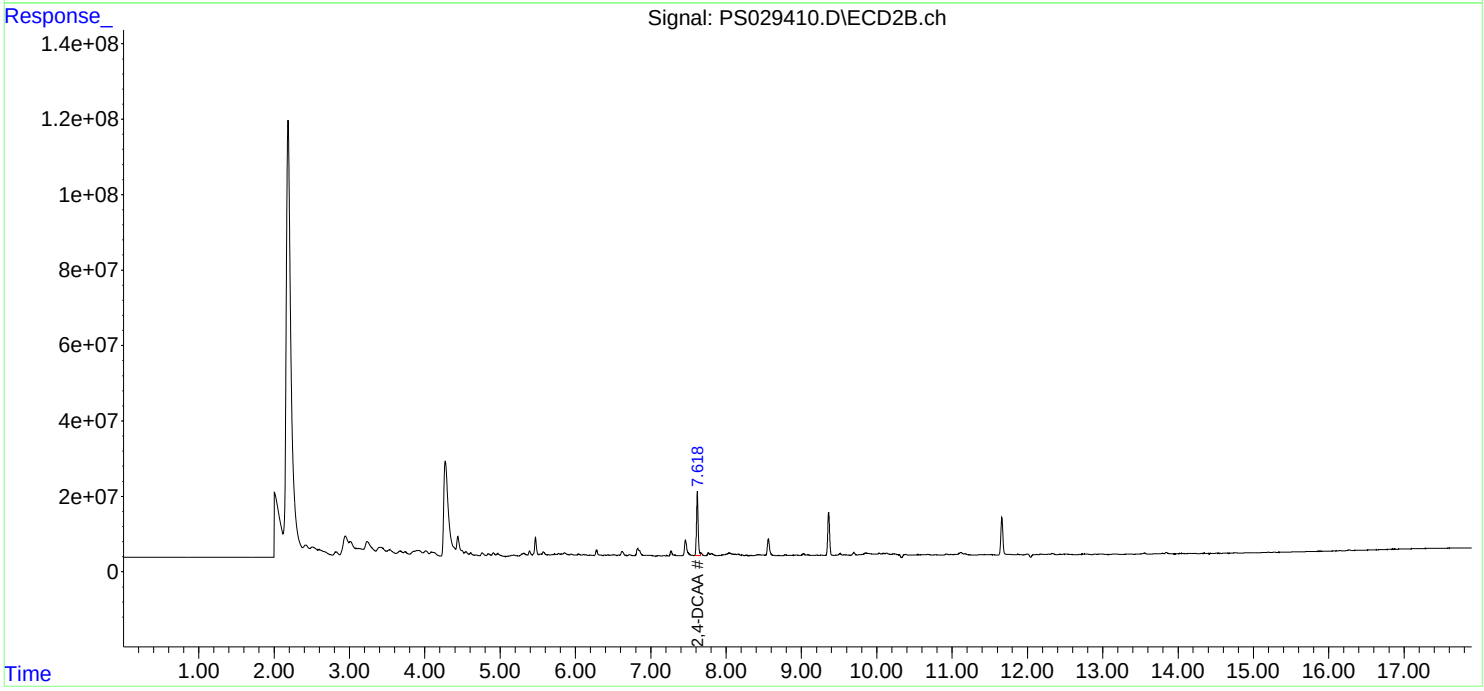
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029410.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 15:27
Operator : AR\AJ
Sample : Q1488-12
Misc :
ALS Vial : 15 Sample Multiplier: 1

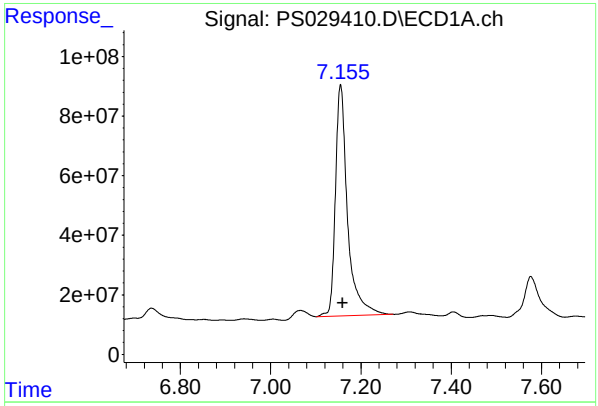
Instrument :
ECD_S
ClientSampleId :
ENV-104-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:31:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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



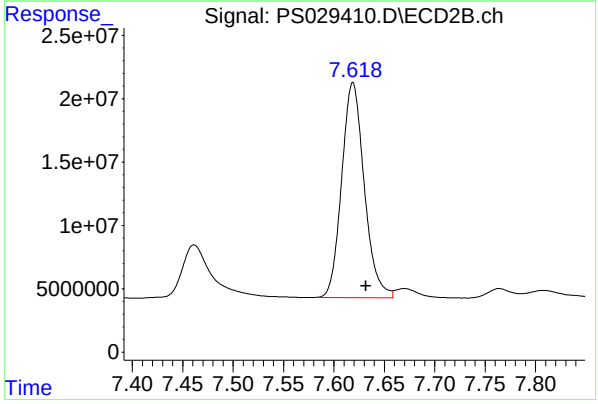




#4 2,4-DCAA

R.T.: 7.155 min
Delta R.T.: -0.005 min
Response: 1446203268
Conc: 350.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
ENV-104-SB02



#4 2,4-DCAA

R.T.: 7.619 min
Delta R.T.: -0.013 min
Response: 264200374
Conc: 280.96 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 09:57
Operator : AR\AJ
Sample : PB167090BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167090BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.157	7.618	1984.7E6	401.4E6	481.668	426.855
	Target Compounds						

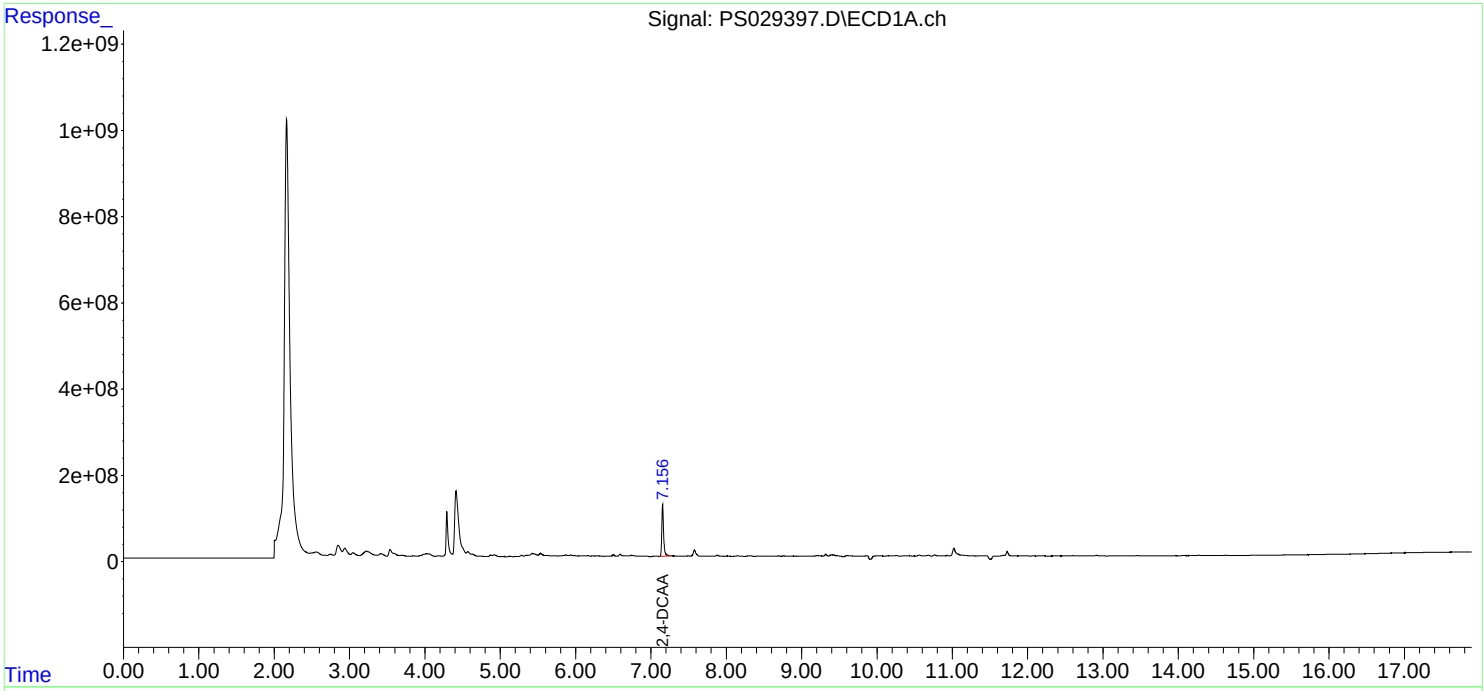
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

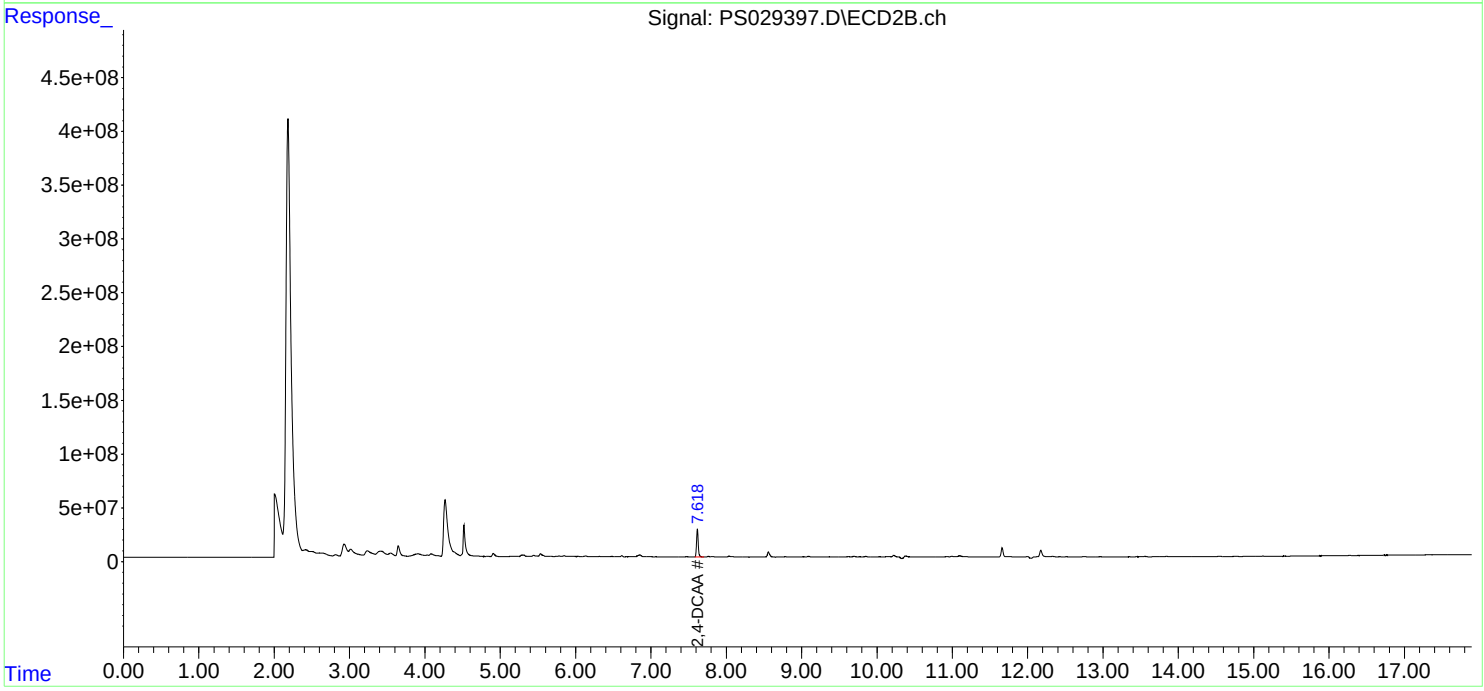
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 09:57
Operator : AR\AJ
Sample : PB167090BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

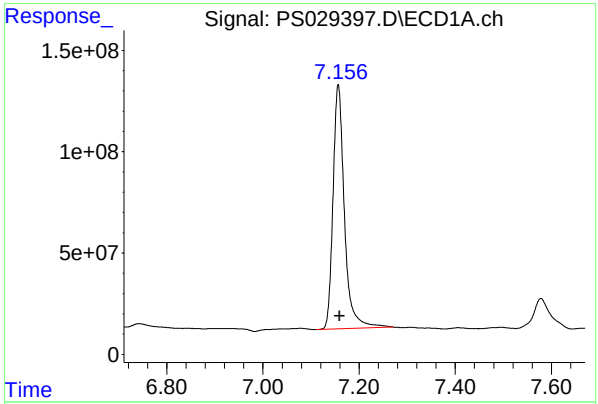
Instrument :
ECD_S
ClientSampleId :
PB167090BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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



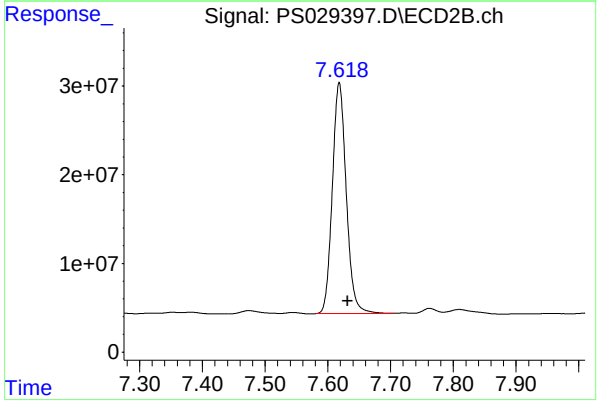




#4 2,4-DCAA

R.T.: 7.157 min
Delta R.T.: -0.003 min
Response: 1984749906
Conc: 481.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167090BL



#4 2,4-DCAA

R.T.: 7.618 min
Delta R.T.: -0.014 min
Response: 401385970
Conc: 426.86 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 10:21
Operator : AR\AJ
Sample : PB167090BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167090BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.156	7.620	2145.3E6	441.0E6	520.621	468.998
	Target Compounds						
1) T	Dalapon	2.598	2.644	2585.9E6	951.5E6	468.442	449.438
2) T	3,5-DICHL...	6.338	6.595	2863.8E6	623.4E6	489.448	440.249
3) T	4-Nitroph...	6.957	7.153	966.2E6	333.1E6	412.870	417.664
5) T	DICAMBA	7.337	7.813	8630.9E6	2303.0E6	497.000	446.932m
6) T	MCPP	7.516	7.917	529.3E6	100.2E6	42.944	42.819
7) T	MCPA	7.663	8.156	786.9E6	139.8E6	46.439	43.815
8) T	DICHLORPROP	8.037	8.523	2253.7E6	585.9E6	490.318	458.155
9) T	2,4-D	8.268	8.848	2291.3E6	576.8E6	482.338	454.200
10) T	Pentachlo...	8.558	9.364	33171.8E6	11102.8E6	568.436	482.465
11) T	2,4,5-TP ...	9.132	9.741	12560.8E6	4277.8E6	510.871	473.378
12) T	2,4,5-T	9.424	10.155	12911.2E6	3787.7E6	506.547	461.338
13) T	2,4-DB	9.993	10.718	1928.9E6	362.3E6	461.965	473.273m
14) T	DINOSEB	11.185	11.093	8178.4E6	2708.4E6	491.764m	446.818m
15) T	Picloram	11.002	12.167	13656.6E6	4781.1E6	447.121	413.502
16) T	DCPA	11.482	12.126	15402.3E6	5660.9E6	513.349	478.255

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

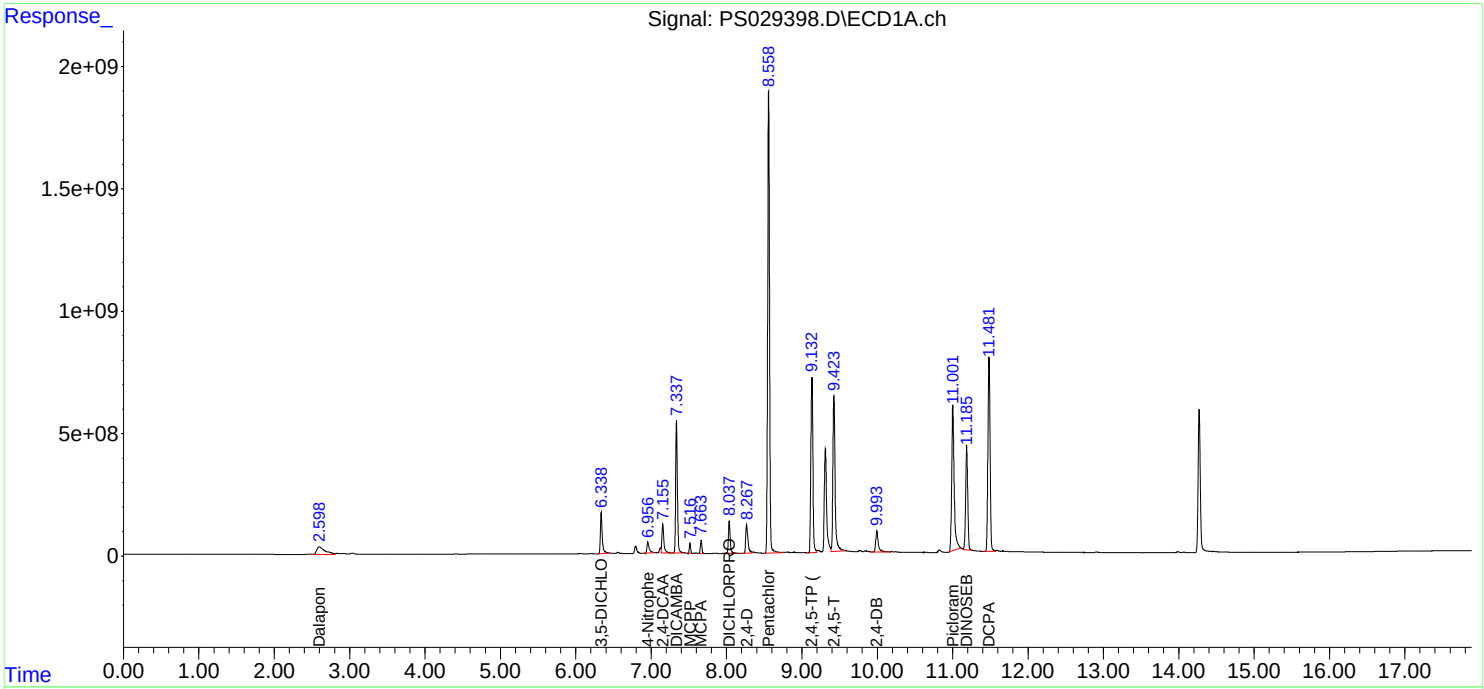
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 10:21
Operator : AR\AJ
Sample : PB167090BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

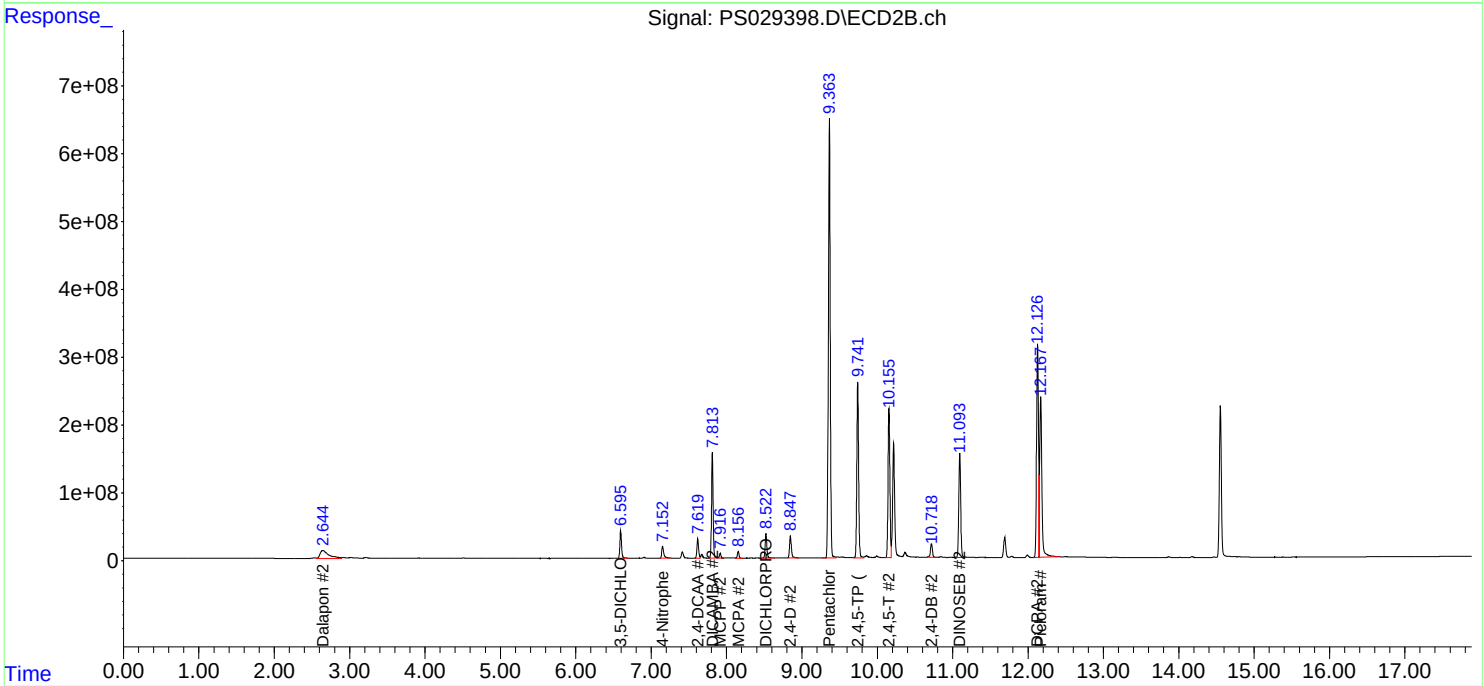
Instrument :
ECD_S
ClientSampleId :
PB167090BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:28:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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\PS031225\
Data File : PS029402.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 12:14
Operator : AR\AJ
Sample : Q1488-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.156	7.619	2015.2E6	343.0E6	489.060	364.774 #
	Target Compounds						
1) T	Dalapon	2.597	2.645	1473.8E6	702.5E6	266.980m	331.805m
2) T	3,5-DICHL...	6.337	6.594	2716.3E6	568.1E6	464.228	401.160
3) T	4-Nitroph...	6.958	7.157	25936624	6145422	11.083m	7.705m#
5) T	DICAMBA	7.336	7.811	7585.8E6	2107.0E6	436.818m	408.898m
6) T	MCPP	7.515	7.916	558.8E6	98960114	45.333m	42.306
7) T	MCPA	7.663	8.155	697.5E6	224.6E6	41.161	70.423 #
8) T	DICHLORPROP	8.036	8.521	2074.9E6	623.9E6	451.422	487.917
9) T	2,4-D	8.265	8.845	2505.7E6	619.4E6	527.474	487.792
10) T	Pentachlo...	8.560	9.361	38770.7E6	13195.5E6	664.380	573.399
11) T	2,4,5-TP ...	9.131	9.740	12815.6E6	6346.5E6	521.238	702.301 #
12) T	2,4,5-T	9.421	10.153	12298.4E6	3771.6E6	482.502	459.377
13) T	2,4-DB	9.991	10.715	1492.2E6	367.3E6	357.371m	479.765m#
14) T	DINOSEB	11.185	11.091	5773.1E6	1864.9E6	347.133m	307.664m
15) T	Picloram	11.000	12.165	12199.8E6	4089.9E6	399.425	353.724
16) T	DCPA	11.479	12.125	12060.0E6	5304.0E6	401.953	448.102

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

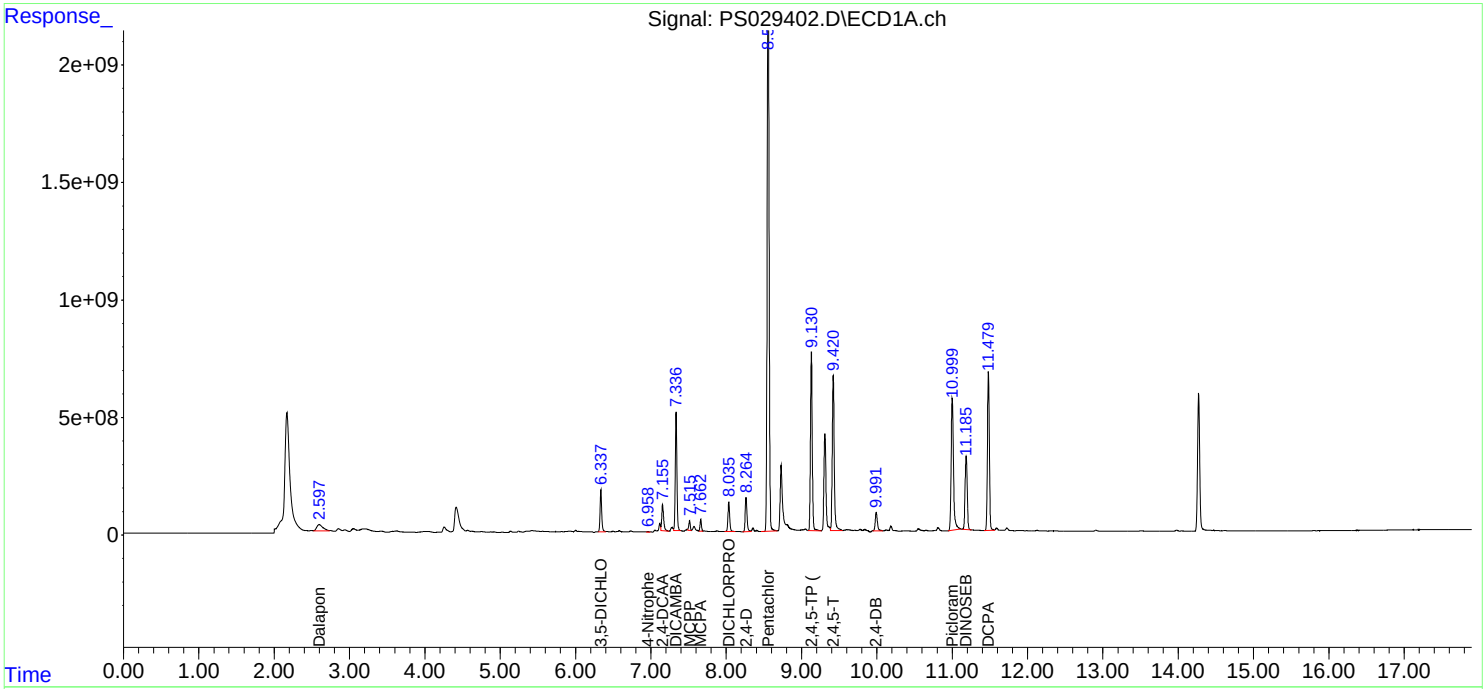
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029402.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 12:14
Operator : AR\AJ
Sample : Q1488-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

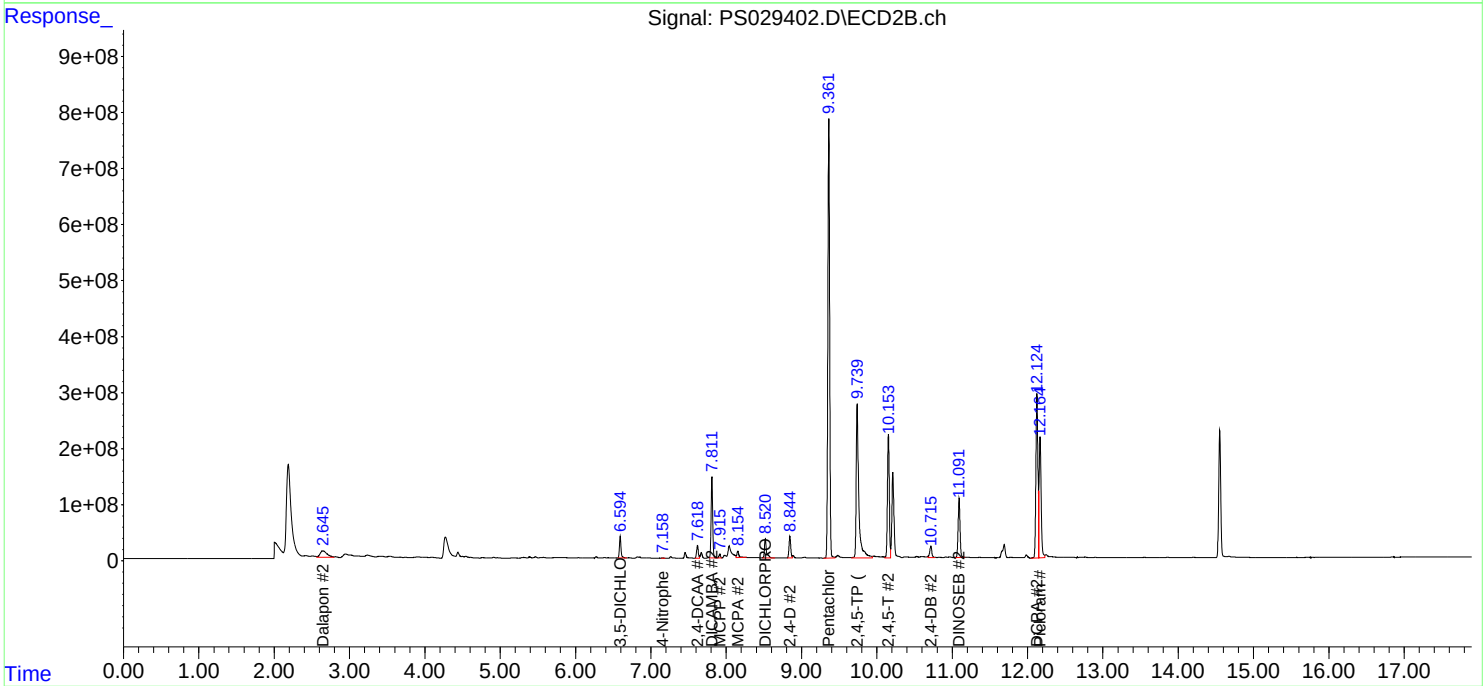
Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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\PS031225\
Data File : PS029403.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 12:38
Operator : AR\AJ
Sample : Q1488-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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	7.156	7.619	1989.3E6	334.6E6	482.766	355.858 #
	Target Compounds						
1) T	Dalapon	2.599	2.646	1562.5E6	626.6E6	283.039m	295.965m
2) T	3,5-DICHL...	6.337	6.594	2697.2E6	548.3E6	460.964	387.161m
3) T	4-Nitroph...	6.959	7.158	28607104	6831113	12.224m	8.565m#
5) T	DICAMBA	7.336	7.812	7483.1E6	2088.1E6	430.907m	405.225m
6) T	MCPP	7.516	7.917	556.7E6	99930565	45.166m	42.721
7) T	MCPA	7.663	8.156	707.2E6	246.4E6	41.733	77.260 #
8) T	DICHLORPROP	8.036	8.522	2069.8E6	616.3E6	450.312	481.979
9) T	2,4-D	8.265	8.846	2521.6E6	627.1E6	530.821	493.833
10) T	Pentachlo...	8.558	9.363	38188.8E6	12922.3E6	654.408	561.531
11) T	2,4,5-TP ...	9.131	9.742	12808.4E6	6851.8E6	520.944	758.224 #
12) T	2,4,5-T	9.422	10.154	12413.7E6	3809.8E6	487.028	464.030
13) T	2,4-DB	9.991	10.716	1495.8E6	369.2E6	358.242m	482.191m#
14) T	DINOSEB	11.185	11.092	5623.2E6	1816.7E6	338.118m	299.713m
15) T	Picloram	11.000	12.165	12160.3E6	4088.2E6	398.129	353.580
16) T	DCPA	11.479	12.125	12041.0E6	5298.2E6	401.319	447.613

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

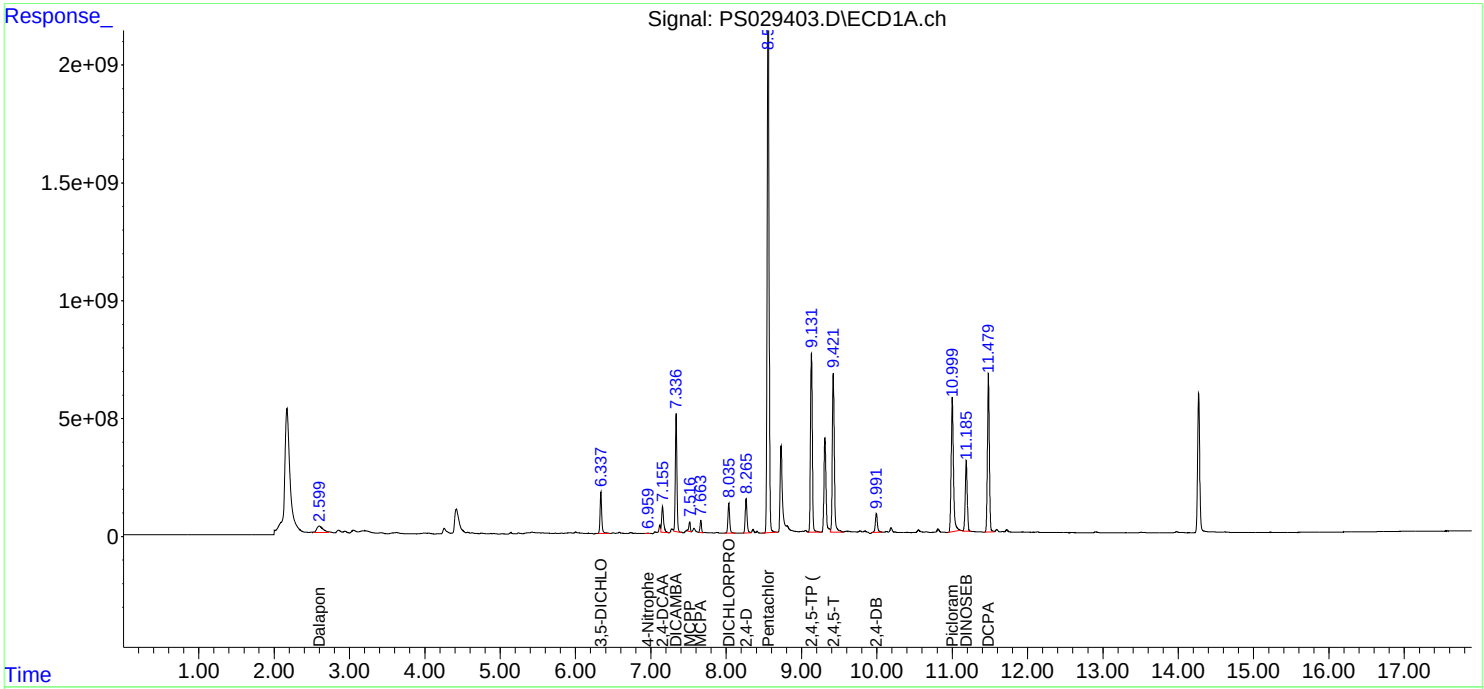
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031225\
Data File : PS029403.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2025 12:38
Operator : AR\AJ
Sample : Q1488-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

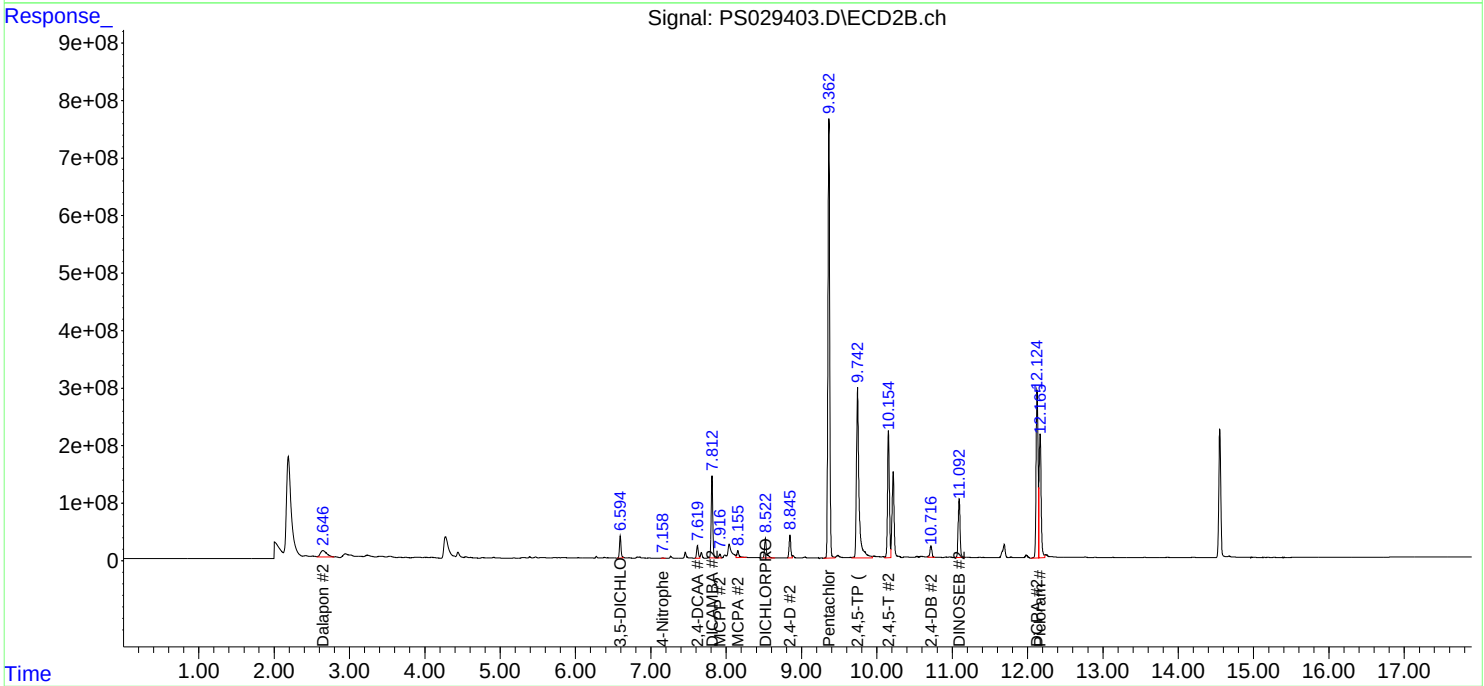
Instrument :
ECD_S
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:29:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 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:	ps022125	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

Manual Integration Report

Sequence:	ps031225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029396.D	2,4-DB #2	Abdul	3/13/2025 8:40:01 AM	Ankita	3/13/2025 10:13:02	Peak Integrated by Software
HSTDCCC750	PS029396.D	DICAMBA #2	Abdul	3/13/2025 8:40:01 AM	Ankita	3/13/2025 10:13:02	Peak Integrated by Software
HSTDCCC750	PS029396.D	DINOSEB	Abdul	3/13/2025 8:40:01 AM	Ankita	3/13/2025 10:13:02	Peak Integrated by Software
HSTDCCC750	PS029396.D	DINOSEB #2	Abdul	3/13/2025 8:40:01 AM	Ankita	3/13/2025 10:13:02	Peak Integrated by Software
PB167090BS	PS029398.D	2,4-DB #2	Abdul	3/13/2025 8:40:07 AM	Ankita	3/13/2025 10:13:04	Peak Integrated by Software
PB167090BS	PS029398.D	DICAMBA #2	Abdul	3/13/2025 8:40:07 AM	Ankita	3/13/2025 10:13:04	Peak Integrated by Software
PB167090BS	PS029398.D	DINOSEB	Abdul	3/13/2025 8:40:07 AM	Ankita	3/13/2025 10:13:04	Peak Integrated by Software
PB167090BS	PS029398.D	DINOSEB #2	Abdul	3/13/2025 8:40:07 AM	Ankita	3/13/2025 10:13:04	Peak Integrated by Software
PB167020TB	PS029399.D	2,4-DCAA	Abdul	3/13/2025 8:40:16 AM	Ankita	3/13/2025 10:13:07	Peak Integrated by Software
Q1488-02MS	PS029402.D	2,4-DB	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	2,4-DB #2	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	4-Nitrophenol	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	4-Nitrophenol #2	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software

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

Manual Integration Report

Sequence:	ps031225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-02MS	PS029402.D	Dalapon	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	Dalapon #2	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	DICAMBA	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	DICAMBA #2	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	DINOSEB	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	DINOSEB #2	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MS	PS029402.D	MCPP	Abdul	3/13/2025 8:40:29 AM	Ankita	3/13/2025 10:13:13	Peak Integrated by Software
Q1488-02MSD	PS029403.D	2,4-DB	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	2,4-DB #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	4-Nitrophenol	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	4-Nitrophenol #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	Dalapon	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software

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

Manual Integration Report

Sequence:	ps031225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-02MSD	PS029403.D	Dalapon #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	DICAMBA	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	DICAMBA #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	DINOSEB	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	DINOSEB #2	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-02MSD	PS029403.D	MCPP	Abdul	3/13/2025 8:40:36 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
HSTDCCC750	PS029405.D	2,4-DB #2	Abdul	3/13/2025 8:40:43 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
HSTDCCC750	PS029405.D	DICAMBA #2	Abdul	3/13/2025 8:40:43 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
HSTDCCC750	PS029405.D	DINOSEB	Abdul	3/13/2025 8:40:43 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
HSTDCCC750	PS029405.D	DINOSEB #2	Abdul	3/13/2025 8:40:43 AM	Ankita	3/13/2025 10:13:14	Peak Integrated by Software
Q1488-04	PS029406.D	2,4-DCAA	Abdul	3/13/2025 8:40:49 AM	Ankita	3/13/2025 10:13:16	Peak Integrated by Software
Q1488-04	PS029406.D	2,4-DCAA #2	Abdul	3/13/2025 8:40:49 AM	Ankita	3/13/2025 10:13:16	Peak Integrated by Software
Q1488-06	PS029407.D	2,4-DCAA	Abdul	3/13/2025 8:40:55 AM	Ankita	3/13/2025 10:13:17	Peak Integrated by Software

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

Manual Integration Report

Sequence:	ps031225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-06	PS029407.D	2,4-DCAA #2	Abdul	3/13/2025 8:40:55 AM	Ankita	3/13/2025 10:13:17	Peak Integrated by Software
Q1488-08	PS029408.D	2,4-DCAA	Abdul	3/13/2025 8:40:59 AM	Ankita	3/13/2025 10:13:19	Peak Integrated by Software
Q1488-08	PS029408.D	2,4-DCAA #2	Abdul	3/13/2025 8:40:59 AM	Ankita	3/13/2025 10:13:19	Peak Integrated by Software
HSTDCCC750	PS029417.D	2,4-DB #2	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software
HSTDCCC750	PS029417.D	2,4-DCAA	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software
HSTDCCC750	PS029417.D	DICAMBA #2	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software
HSTDCCC750	PS029417.D	DINOSEB	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software
HSTDCCC750	PS029417.D	DINOSEB #2	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software
HSTDCCC750	PS029417.D	MCPP	Abdul	3/13/2025 8:41:18 AM	Ankita	3/13/2025 10:13:29	Peak Integrated by Software

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM		
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM		
SubDirectory	PS022125	HP Acquire Method		HP Processing Method	ps0221258151

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	PS029232.D	21 Feb 2025 19:08	AR\AJ	Ok
2	I.BLK	PS029233.D	21 Feb 2025 19:32	AR\AJ	Ok
3	HSTDICC200	PS029234.D	21 Feb 2025 19:56	AR\AJ	Ok
4	HSTDICC500	PS029235.D	21 Feb 2025 20:20	AR\AJ	Ok
5	HSTDICC750	PS029236.D	21 Feb 2025 20:44	AR\AJ	Ok
6	HSTDICC1000	PS029237.D	21 Feb 2025 21:08	AR\AJ	Ok
7	HSTDICC1500	PS029238.D	21 Feb 2025 21:32	AR\AJ	Ok
8	HSTDICV750	PS029239.D	21 Feb 2025 21:56	AR\AJ	Ok
9	I.BLK	PS029240.D	21 Feb 2025 22:20	AR\AJ	Ok
10	HSTDCCC750	PS029241.D	21 Feb 2025 22:44	AR\AJ	Ok
11	Q1383-03	PS029242.D	21 Feb 2025 23:08	AR\AJ	Ok,M
12	Q1383-05	PS029243.D	21 Feb 2025 23:32	AR\AJ	Ok,M
13	Q1383-07	PS029244.D	21 Feb 2025 23:56	AR\AJ	Ok,M
14	Q1383-09	PS029245.D	22 Feb 2025 00:20	AR\AJ	Ok,M
15	Q1383-11	PS029246.D	22 Feb 2025 00:44	AR\AJ	Ok,M
16	Q1383-13	PS029247.D	22 Feb 2025 01:08	AR\AJ	ReRun
17	Q1383-15	PS029248.D	22 Feb 2025 01:32	AR\AJ	Ok,M
18	Q1383-17	PS029249.D	22 Feb 2025 01:56	AR\AJ	Ok
19	Q1383-19	PS029250.D	22 Feb 2025 02:20	AR\AJ	Ok
20	I.BLK	PS029251.D	22 Feb 2025 02:44	AR\AJ	Ok
21	HSTDCCC750	PS029252.D	22 Feb 2025 03:08	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS031225

Review By	Abdul	Review On	3/13/2025 8:41:54 AM		
Supervise By	Ankita	Supervise On	3/13/2025 10:13:47 AM		
SubDirectory	PS031225	HP Acquire Method		HP Processing Method	ps022125 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	PS029394.D	12 Mar 2025 08:39	AR\AJ	Ok
2	I.BLK	PS029395.D	12 Mar 2025 09:03	AR\AJ	Ok
3	HSTDCCC750	PS029396.D	12 Mar 2025 09:27	AR\AJ	Ok,M
4	PB167090BL	PS029397.D	12 Mar 2025 09:57	AR\AJ	Ok
5	PB167090BS	PS029398.D	12 Mar 2025 10:21	AR\AJ	Ok,M
6	PB167020TB	PS029399.D	12 Mar 2025 10:45	AR\AJ	Ok,M
7	PB167049TB	PS029400.D	12 Mar 2025 11:09	AR\AJ	Ok,M
8	Q1488-02	PS029401.D	12 Mar 2025 11:50	AR\AJ	Ok
9	Q1488-02MS	PS029402.D	12 Mar 2025 12:14	AR\AJ	Ok,M
10	Q1488-02MSD	PS029403.D	12 Mar 2025 12:38	AR\AJ	Ok,M
11	I.BLK	PS029404.D	12 Mar 2025 13:02	AR\AJ	Ok
12	HSTDCCC750	PS029405.D	12 Mar 2025 13:26	AR\AJ	Ok,M
13	Q1488-04	PS029406.D	12 Mar 2025 13:50	AR\AJ	Ok,M
14	Q1488-06	PS029407.D	12 Mar 2025 14:14	AR\AJ	Ok,M
15	Q1488-08	PS029408.D	12 Mar 2025 14:38	AR\AJ	Ok,M
16	Q1488-10	PS029409.D	12 Mar 2025 15:02	AR\AJ	Ok
17	Q1488-12	PS029410.D	12 Mar 2025 15:27	AR\AJ	Ok
18	Q1514-02	PS029411.D	12 Mar 2025 15:51	AR\AJ	Ok,M
19	Q1514-04	PS029412.D	12 Mar 2025 16:15	AR\AJ	Ok,M
20	Q1514-06	PS029413.D	12 Mar 2025 16:39	AR\AJ	Ok,M
21	Q1523-03	PS029414.D	12 Mar 2025 17:03	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS031225

Review By	Abdul	Review On	3/13/2025 8:41:54 AM		
Supervise By	Ankita	Supervise On	3/13/2025 10:13:47 AM		
SubDirectory	PS031225	HP Acquire Method		HP Processing Method	ps022125 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	Q1523-06	PS029415.D	12 Mar 2025 17:27	AR\AJ	Ok,M
23	I.BLK	PS029416.D	12 Mar 2025 17:51	AR\AJ	Ok
24	HSTDCCC750	PS029417.D	12 Mar 2025 18:15	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM		
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM		
SubDirectory	PS022125	HP Acquire Method		HP Processing Method	ps0221258151

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	PS029232.D	21 Feb 2025 19:08		AR\AJ	Ok
2	I.BLK	I.BLK	PS029233.D	21 Feb 2025 19:32		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029234.D	21 Feb 2025 19:56		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029235.D	21 Feb 2025 20:20		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029236.D	21 Feb 2025 20:44	Method fail for comp 10	AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS029237.D	21 Feb 2025 21:08		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS029238.D	21 Feb 2025 21:32		AR\AJ	Ok
8	HSTDICV750	ICVPS022125	PS029239.D	21 Feb 2025 21:56		AR\AJ	Ok
9	I.BLK	I.BLK	PS029240.D	21 Feb 2025 22:20		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029241.D	21 Feb 2025 22:44		AR\AJ	Ok
11	Q1383-03	OU4-PCS-TC-12-02172	PS029242.D	21 Feb 2025 23:08		AR\AJ	Ok,M
12	Q1383-05	OU4-PCS-TC-13-02172	PS029243.D	21 Feb 2025 23:32		AR\AJ	Ok,M
13	Q1383-07	OU4-PCS-TC-14-02172	PS029244.D	21 Feb 2025 23:56		AR\AJ	Ok,M
14	Q1383-09	OU4-PCS-TC-15-02172	PS029245.D	22 Feb 2025 00:20		AR\AJ	Ok,M
15	Q1383-11	OU4-PCS-TC-16-02172	PS029246.D	22 Feb 2025 00:44		AR\AJ	Ok,M
16	Q1383-13	OU4-PCS-TC-17-02172	PS029247.D	22 Feb 2025 01:08	2,4-DCAA high in 1st column	AR\AJ	ReRun
17	Q1383-15	OU4-PCS-TC-18-02172	PS029248.D	22 Feb 2025 01:32		AR\AJ	Ok,M
18	Q1383-17	OU4-PCS-TC-19-02172	PS029249.D	22 Feb 2025 01:56		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM		
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM		
SubDirectory	PS022125	HP Acquire Method		HP Processing Method	ps0221258151

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	Q1383-19	OU4-PCS-TC-20-02172	PS029250.D	22 Feb 2025 02:20		AR\AJ	Ok
20	I.BLK	I.BLK	PS029251.D	22 Feb 2025 02:44		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS029252.D	22 Feb 2025 03:08		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS031225

Review By	Abdul	Review On	3/13/2025 8:41:54 AM		
Supervise By	Ankita	Supervise On	3/13/2025 10:13:47 AM		
SubDirectory	PS031225	HP Acquire Method		HP Processing Method	ps022125 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	PS029394.D	12 Mar 2025 08:39		AR\AJ	Ok
2	I.BLK	I.BLK	PS029395.D	12 Mar 2025 09:03		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029396.D	12 Mar 2025 09:27		AR\AJ	Ok,M
4	PB167090BL	PB167090BL	PS029397.D	12 Mar 2025 09:57		AR\AJ	Ok
5	PB167090BS	PB167090BS	PS029398.D	12 Mar 2025 10:21		AR\AJ	Ok,M
6	PB167020TB	PB167020TB	PS029399.D	12 Mar 2025 10:45		AR\AJ	Ok,M
7	PB167049TB	PB167049TB	PS029400.D	12 Mar 2025 11:09		AR\AJ	Ok,M
8	Q1488-02	ENV-101-SB01	PS029401.D	12 Mar 2025 11:50		AR\AJ	Ok
9	Q1488-02MS	ENV-101-SB01MS	PS029402.D	12 Mar 2025 12:14	some compound recovery fail	AR\AJ	Ok,M
10	Q1488-02MSD	ENV-101-SB01MSD	PS029403.D	12 Mar 2025 12:38	some compound recovery fail	AR\AJ	Ok,M
11	I.BLK	I.BLK	PS029404.D	12 Mar 2025 13:02		AR\AJ	Ok
12	HSTDCCC750	HSTDCCC750	PS029405.D	12 Mar 2025 13:26		AR\AJ	Ok,M
13	Q1488-04	ENV-101-SB02	PS029406.D	12 Mar 2025 13:50		AR\AJ	Ok,M
14	Q1488-06	ENV-102-SB01	PS029407.D	12 Mar 2025 14:14		AR\AJ	Ok,M
15	Q1488-08	ENV-102-SB02	PS029408.D	12 Mar 2025 14:38		AR\AJ	Ok,M
16	Q1488-10	ENV-104-SB01	PS029409.D	12 Mar 2025 15:02		AR\AJ	Ok
17	Q1488-12	ENV-104-SB02	PS029410.D	12 Mar 2025 15:27		AR\AJ	Ok
18	Q1514-02	ENV-105-SB01	PS029411.D	12 Mar 2025 15:51		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS031225

Review By	Abdul	Review On	3/13/2025 8:41:54 AM		
Supervise By	Ankita	Supervise On	3/13/2025 10:13:47 AM		
SubDirectory	PS031225	HP Acquire Method		HP Processing Method	ps022125 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	Q1514-04	ENV-105-SB02	PS029412.D	12 Mar 2025 16:15		AR\AJ	Ok,M
20	Q1514-06	ENV-103-SB01	PS029413.D	12 Mar 2025 16:39		AR\AJ	Ok,M
21	Q1523-03	WC-A1-01-C	PS029414.D	12 Mar 2025 17:03		AR\AJ	Ok,M
22	Q1523-06	WC-A2-02-C	PS029415.D	12 Mar 2025 17:27		AR\AJ	Ok,M
23	I.BLK	I.BLK	PS029416.D	12 Mar 2025 17:51		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS029417.D	12 Mar 2025 18:15		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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 : 03/06/2025 **Time :** 17:00

End Prep Date : 03/07/2025 **Time :** 11:20

Combination Ratio : 20

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

Initial Room Temperature: 25 °C

Final Room Temperature: 22 °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	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1L Amber bottle	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 in not required. TUMBLER T-1 /T-2 checked,30 rpm. q1514-06 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/07/25 12:30	JP / TCLP Room	JPP RJ / EXT
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167020TB	LEB020	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A
Q1510-01	FMC-25-0001-0005	N/A	N/A	N/A	N/A	100	N/A
Q1514-02	ENV-105-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1514-04	ENV-105-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1514-06	ENV-103-SB01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167020

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
PB167020TB	LEB020	N/A	N/A	N/A	N/A	#1	4.94
Q1488-02	ENV-101-SB01	5.01	96.5	6.2	2.5	#1	4.94
Q1488-04	ENV-101-SB02	5.02	96.5	6.6	2.0	#1	4.94
Q1488-06	ENV-102-SB01	5.03	96.5	6.2	2.5	#1	4.94
Q1488-08	ENV-102-SB02	5.04	96.5	7.2	2.5	#1	4.94
Q1488-10	ENV-104-SB01	5.03	96.5	6.6	2.0	#1	4.94
Q1488-12	ENV-104-SB02	5.02	96.5	7.0	2.5	#1	4.94
Q1490-02	CLAY-SLUDGE-DRUMS	5.04	96.5	7.0	2.5	#1	4.94
Q1494-04	ASPHALT-SOIL	5.01	96.5	8.6	3.0	#1	4.94
Q1494-06	SOIL	5.02	96.5	9.1	4.0	#1	4.94
Q1494-08	SOIL-COMP	5.04	96.5	8.6	3.5	#1	4.94
Q1510-01	FMC-25-0001-0005	5.03	96.5	5.6	1.5	#1	4.94
Q1514-02	ENV-105-SB01	5.01	96.5	7.6	2.5	#1	4.94
Q1514-04	ENV-105-SB02	5.02	96.5	8.0	3.0	#1	4.94
Q1514-06	ENV-103-SB01	5.03	96.5	9.1	3.5	#1	4.94

Q1488

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1490 **WorkList ID :** 188086 **Department :** TCLP Extraction **Date :** 03-06-2025 11:40:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-02	ENV-101-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-04	ENV-101-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-06	ENV-102-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-08	ENV-102-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-10	ENV-104-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1488-12	ENV-104-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311
Q1494-04	ASPHALT-SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311
Q1494-06	SOIL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1494-08	SOIL-COMP	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1510-01	FMC-25-0001-0005	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311
Q1514-02	ENV-105-SB01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/06/2025	1311
Q1514-04	ENV-105-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311
Q1514-06	ENV-103-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311

1303 of 2177

Date/Time 03106125 16:10

Raw Sample Received by: SB (WC)

Raw Sample Relinquished by: CP SM

Date/Time 03106125 18:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SB (WC)

L K J I H G F E D C B A 11

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167090

11

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,7

Extraction Start Date : 03/11/2025

Extraction Start Time : 11:30

Extraction End Date : 03/11/2025

Extraction End Time : 18:30

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24193
Surrogate	1.0ML	5000 PPB	PP24196
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
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2553
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2588
Hexane	N/A	E3877
NACL	N/A	M4459
N/A	N/A	N/A
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

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/11/25	RS (Edt lab)	YP.PSH/GB.
18:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167090

Analytical Method: M8151A-Herbicide-22 **Concentration Date:** 03/11/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167020TB	PB167020TB	TCLP Herbicide	100	6	RUPESH	rajesh	10			SEP-1
PB167049TB	PB167049TB	TCLP Herbicide	100	6	RUPESH	rajesh	10			2
PB167090BL	HBLK090	TCLP Herbicide	1000	6	RUPESH	rajesh	10			3
PB167090BS	HLCS090	TCLP Herbicide	1000	6	RUPESH	rajesh	10			4
Q1488-02	ENV-101-SB01	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		5
Q1488-02MS	ENV-101-SB01MS	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		6
Q1488-02MSD	ENV-101-SB01MSD	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		7
Q1488-04	ENV-101-SB02	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		8
Q1488-06	ENV-102-SB01	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		9
Q1488-08	ENV-102-SB02	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		10
Q1488-10	ENV-104-SB01	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		11
Q1488-12	ENV-104-SB02	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		12
Q1514-02	ENV-105-SB01	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		13
Q1514-04	ENV-105-SB02	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		14
Q1514-06	ENV-103-SB01	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		15
Q1523-03	WC-A1-01-C	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		16
Q1523-06	WC-A2-02-C	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		170

Rg
3/11

* **Extracts relinquished on the same date as received.**

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TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

03/07/25

12:30

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TCLP EXTRACTION LOGPAGE

PB167049

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
PB167049TB	LEB049	10	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q1523-03	WC-A1-01-C	01	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q1523-06	WC-A2-02-C	02	100.01	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q1534-06	OR-363-COMP-16	03	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1534-12	OR-363-COMP-17	04	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1534-18	OR-363-COMP-18	05	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1534-24	OR-363OR-363-COMP-19-	06	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1537-05	COMP-1	07	100.03	2000	N/A	N/A	N/A	10.0	1.5	T-1
Q1537-06	COMP-2	08	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q1537-07	COMP-3	09	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-1

03/11/2025
11:00

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

LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	

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LAB CHRONICLE

			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP Herbicide	8151A		03/11/25	03/12/25	
			TCLP Pesticide	8081B		03/11/25	03/12/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			EPH	NJEPH		03/05/25	03/05/25	
			PCB	8082A		03/06/25	03/06/25	
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**			**03/04/25**
			EPH	NJEPH		03/05/25	03/05/25	
			PCB	8082A		03/06/25	03/06/25	

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/10/25 09:20	03/10/25 21:32	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FE052711.D
Aliphatic C12-C16	Aliphatic C12-C16	0.27	U	1	0.27	0.75	mg/kg	FE052711.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	1	0.34	1.13	mg/kg	FE052711.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.50	mg/kg	FE052711.D
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FE052711.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FF015632.D
Aromatic C12-C16	Aromatic C12-C16	0.38	U	1	0.38	1.13	mg/kg	FF015632.D
Aromatic C16-C21	Aromatic C16-C21	1.08	U	1	1.08	1.88	mg/kg	FF015632.D
Aromatic C21-C36	Aromatic C21-C36	2.26	U	1	2.26	3.01	mg/kg	FF015632.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.06	U		4.06	6.77	mg/kg	
Total EPH	Total EPH	8.03	U		8.03	13.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052711.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.27	U	0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	0.90	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	51.0		40 - 140	102%	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:	Q1488-01	Acq On:	10 Mar 2025 21:32
Client Sample ID:	ENV-101-SB01	Operator:	YP\AJ
Data file:	FE052711.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	0	0	300	ug/ml
Aliphatic C12-C16	6.797	10.250	324956	2.136	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	0	0	600	ug/ml
Aliphatic EPH	3.151	22.234	324956	2.136		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.359	13.359	6193125	51		ug/ml
Aliphatic C9-C28	3.151	17.305	324956	2.136	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015632.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.38	U	0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.08	U	1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.26	U	2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.8		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.0		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.4		40 - 140	69%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-01	Acq On:	10 Mar 2025 18:15
Client Sample ID:	ENV-101-SB01	Operator:	YP\AJ
Data file:	FF015632.D	Misc:	
Instrument:	FID_F	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	0	0	200	ug/ml
Aromatic C12-C16	6.378	9.069	0	0	300	ug/ml
Aromatic C16-C21	9.070	13.390	1463074	10.997	500	ug/ml
Aromatic C21-C36	13.391	18.845	113223	0.871	800	ug/ml
Aromatic EPH	4.505	18.845	1576297	11.868		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	5453196	46.84		ug/ml
2-Flurobiphenyl (SURR)	8.876	8.876	3207625	45.03		ug/ml
ortho-Terphenyl (SURR)	11.935	11.935	5056753	34.38		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/10/25 09:20	03/10/25 23:32	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.42	U	1	0.42	1.10	mg/kg	FE052715.D
Aliphatic C12-C16	Aliphatic C12-C16	0.70	J	1	0.26	0.73	mg/kg	FE052715.D
Aliphatic C16-C21	Aliphatic C16-C21	0.33	U	1	0.33	1.10	mg/kg	FE052715.D
Aliphatic C21-C28	Aliphatic C21-C28	0.88	U	1	0.88	1.47	mg/kg	FE052715.D
Aliphatic C28-C40	Aliphatic C28-C40	1.98	U	1	1.98	2.20	mg/kg	FE052715.D
Aromatic C10-C12	Aromatic C10-C12	0.33	U	1	0.33	0.73	mg/kg	FF015636.D
Aromatic C12-C16	Aromatic C12-C16	0.37	U	1	0.37	1.10	mg/kg	FF015636.D
Aromatic C16-C21	Aromatic C16-C21	1.06	U	1	1.06	1.83	mg/kg	FF015636.D
Aromatic C21-C36	Aromatic C21-C36	2.20	U	1	2.20	2.94	mg/kg	FF015636.D
Total AliphaticEPH	Total AliphaticEPH	3.87	U		3.87	6.60	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.96	U		3.96	6.60	mg/kg	
Total EPH	Total EPH	7.84	U		7.84	13.2	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052715.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.42	U	0.42	1.10	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.70	J	0.26	0.73	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.33	U	0.33	1.10	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.88	U	0.88	1.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.98	U	1.98	2.20	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.4		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1488-03	Acq On:	10 Mar 2025 23:32
Client Sample ID:	ENV-101-SB02	Operator:	YP\AJ
Data file:	FE052715.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	433142	2.777	300	ug/ml
Aliphatic C12-C16	6.797	10.250	1456046	9.573	200	ug/ml
Aliphatic C16-C21	10.251	13.630	595343	4.062	300	ug/ml
Aliphatic C21-C28	13.631	17.305	855082	6.003	400	ug/ml
Aliphatic C28-C40	17.306	22.234	2417303	18.946	600	ug/ml
Aliphatic EPH	3.151	22.234	5756916	41.362		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.357	13.357	4181776	34.44		ug/ml
Aliphatic C9-C28	3.151	17.305	3339613	22.415	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015636.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.33	U	0.33	0.73	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.37	U	0.37	1.10	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.06	U	1.06	1.83	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.20	U	2.20	2.94	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	63.6		40 - 140	127%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.5		40 - 140	119%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.5		40 - 140	53%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-03	Acq On:	10 Mar 2025 20:13
Client Sample ID:	ENV-101-SB02	Operator:	YP\AJ
Data file:	FF015636.D	Misc:	
Instrument:	FID_F	ALS Vial:	78
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	57913	0.451	200	ug/ml
Aromatic C12-C16	6.378	9.069	0	0	300	ug/ml
Aromatic C16-C21	9.070	13.390	1275048	9.584	500	ug/ml
Aromatic C21-C36	13.391	18.845	215391	1.656	800	ug/ml
Aromatic EPH	4.505	18.845	1548352	11.691		ug/ml
ortho-Terphenyl (SURR)	11.933	11.933	3899585	26.51		ug/ml
2-Bromonaphthalene (SURR)	7.998	7.998	7403413	63.6		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	4234903	59.45		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.7
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
03/10/25 09:20	03/11/25 0:03	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.17	mg/kg	FE052716.D
Aliphatic C12-C16	Aliphatic C12-C16	0.28	U	1	0.28	0.78	mg/kg	FE052716.D
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	1	0.35	1.17	mg/kg	FE052716.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.55	mg/kg	FE052716.D
Aliphatic C28-C40	Aliphatic C28-C40	2.10	U	1	2.10	2.33	mg/kg	FE052716.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.78	mg/kg	FF015637.D
Aromatic C12-C16	Aromatic C12-C16	0.60	J	1	0.40	1.17	mg/kg	FF015637.D
Aromatic C16-C21	Aromatic C16-C21	3.61		1	1.12	1.94	mg/kg	FF015637.D
Aromatic C21-C36	Aromatic C21-C36	2.75	J	1	2.33	3.11	mg/kg	FF015637.D
Total AliphaticEPH	Total AliphaticEPH	4.11	U		4.11	7.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.96	J		4.20	7.00	mg/kg	
Total EPH	Total EPH	8.30	U		8.30	14.0	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.7
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
FE052716.D	1	03/10/25	03/11/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	0.44	1.17	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.28	U	0.28	0.78	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	0.35	1.17	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	0.93	1.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.10	U	2.10	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.7		40 - 140	99%	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:	Q1488-05	Acq On:	11 Mar 2025 00:03
Client Sample ID:	ENV-102-SB01	Operator:	YP\AJ
Data file:	FE052716.D	Misc:	
Instrument:	FID_E	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	88518	0.568	300	ug/ml
Aliphatic C12-C16	6.797	10.250	253920	1.669	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	123278	0.966	600	ug/ml
Aliphatic EPH	3.151	22.234	465716	3.203		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.357	13.357	6034563	49.7		ug/ml
Aliphatic C9-C28	3.151	17.305	342438	2.237	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.7
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
FF015637.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.78	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.60	J	0.40	1.17	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.61		1.12	1.94	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.75	J	2.33	3.11	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.9		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.4		40 - 140	91%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-05	Acq On:	10 Mar 2025 20:42
Client Sample ID:	ENV-102-SB01	Operator:	YP\AJ
Data file:	FF015637.D	Misc:	
Instrument:	FID_F	ALS Vial:	79
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	261984	2.041	200	ug/ml
Aromatic C12-C16	6.378	9.069	1046657	7.651	300	ug/ml
Aromatic C16-C21	9.070	13.390	6180335	46.455	500	ug/ml
Aromatic C21-C36	13.391	18.845	4602180	35.386	800	ug/ml
Aromatic EPH	4.505	18.845	12091156	91.533		ug/ml
ortho-Terphenyl (SURR)	11.935	11.935	6672885	45.36		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	6512903	55.95		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	3908861	54.88		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
03/10/25 09:20	03/11/25 0:33	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.47	U	1	0.47	1.25	mg/kg	FE052717.D
Aliphatic C12-C16	Aliphatic C12-C16	0.30	U	1	0.30	0.83	mg/kg	FE052717.D
Aliphatic C16-C21	Aliphatic C16-C21	0.37	U	1	0.37	1.25	mg/kg	FE052717.D
Aliphatic C21-C28	Aliphatic C21-C28	1.00	U	1	1.00	1.66	mg/kg	FE052717.D
Aliphatic C28-C40	Aliphatic C28-C40	2.24	U	1	2.24	2.49	mg/kg	FE052717.D
Aromatic C10-C12	Aromatic C10-C12	0.37	U	1	0.37	0.83	mg/kg	FF015638.D
Aromatic C12-C16	Aromatic C12-C16	0.42	U	1	0.42	1.25	mg/kg	FF015638.D
Aromatic C16-C21	Aromatic C16-C21	1.20	U	1	1.20	2.08	mg/kg	FF015638.D
Aromatic C21-C36	Aromatic C21-C36	2.49	U	1	2.49	3.32	mg/kg	FF015638.D
Total AliphaticEPH	Total AliphaticEPH	4.38	U		4.38	7.48	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.49	U		4.49	7.48	mg/kg	
Total EPH	Total EPH	8.87	U		8.87	15.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FE052717.D	1	03/10/25	03/11/25	PB167058

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.47	U	0.47	1.25	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.30	U	0.30	0.83	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.37	U	0.37	1.25	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.00	U	1.00	1.66	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.24	U	2.24	2.49	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		36.5		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:	Q1488-07	Acq On:	11 Mar 2025 00:33
Client Sample ID:	ENV-102-SB02	Operator:	YP\AJ
Data file:	FE052717.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	80375	0.515	300	ug/ml
Aliphatic C12-C16	6.797	10.250	295416	1.942	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	0	0	600	ug/ml
Aliphatic EPH	3.151	22.234	375791	2.458		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.356	13.356	4436611	36.54		ug/ml
Aliphatic C9-C28	3.151	17.305	375791	2.457	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FF015638.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.37	U	0.37	0.83	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.42	U	0.42	1.25	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.20	U	1.20	2.08	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.49	U	2.49	3.32	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.6		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.8		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.4		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-07	Acq On:	10 Mar 2025 21:11
Client Sample ID:	ENV-102-SB02	Operator:	YP\AJ
Data file:	FF015638.D	Misc:	
Instrument:	FID_F	ALS Vial:	80
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	0	0	200	ug/ml
Aromatic C12-C16	6.378	9.069	0	0	300	ug/ml
Aromatic C16-C21	9.070	13.390	1467708	11.032	500	ug/ml
Aromatic C21-C36	13.391	18.845	489315	3.762	800	ug/ml
Aromatic EPH	4.505	18.845	1957023	14.795		ug/ml
ortho-Terphenyl (SURR)	11.934	11.934	5650419	38.41		ug/ml
2-Bromonaphthalene (SURR)	7.998	7.998	6119437	52.57		ug/ml
2-Flurobiphenyl (SURR)	8.876	8.876	3620112	50.82		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/10/25 09:20	03/11/25 1:03	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	U	1	0.46	1.21	mg/kg	FE052718.D
Aliphatic C12-C16	Aliphatic C12-C16	0.29	U	1	0.29	0.81	mg/kg	FE052718.D
Aliphatic C16-C21	Aliphatic C16-C21	0.36	U	1	0.36	1.21	mg/kg	FE052718.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	U	1	0.97	1.61	mg/kg	FE052718.D
Aliphatic C28-C40	Aliphatic C28-C40	2.18	U	1	2.18	2.42	mg/kg	FE052718.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.81	mg/kg	FF015639.D
Aromatic C12-C16	Aromatic C12-C16	0.76	J	1	0.41	1.21	mg/kg	FF015639.D
Aromatic C16-C21	Aromatic C16-C21	3.84		1	1.16	2.02	mg/kg	FF015639.D
Aromatic C21-C36	Aromatic C21-C36	3.72		1	2.42	3.22	mg/kg	FF015639.D
Total AliphaticEPH	Total AliphaticEPH	4.26	U		4.26	7.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.31			4.35	7.26	mg/kg	
Total EPH	Total EPH	8.61	U		8.61	14.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052718.D	1	03/10/25	03/11/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.46	U	0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.29	U	0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.36	U	0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.97	U	0.97	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.18	U	2.18	2.42	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.9		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1488-09	Acq On:	11 Mar 2025 01:03
Client Sample ID:	ENV-104-SB01	Operator:	YP\AJ
Data file:	FE052718.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	134980	0.866	300	ug/ml
Aliphatic C12-C16	6.797	10.250	116104	0.763	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	0	0	600	ug/ml
Aliphatic EPH	3.151	22.234	251084	1.629		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.358	13.358	5213495	42.94		ug/ml
Aliphatic C9-C28	3.151	17.305	251084	1.629	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015639.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.36	U	0.36	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.76	J	0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.84		1.16	2.02	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.72		2.42	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.3		40 - 140	99%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	51.1		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.5		40 - 140	95%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-09	Acq On:	10 Mar 2025 21:41
Client Sample ID:	ENV-104-SB01	Operator:	YP\AJ
Data file:	FF015639.D	Misc:	
Instrument:	FID_F	ALS Vial:	81
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	575436	4.483	200	ug/ml
Aromatic C12-C16	6.378	9.069	1280754	9.362	300	ug/ml
Aromatic C16-C21	9.070	13.390	6340740	47.661	500	ug/ml
Aromatic C21-C36	13.391	18.845	6003199	46.159	800	ug/ml
Aromatic EPH	4.505	18.845	14200129	107.665		ug/ml
ortho-Terphenyl (SURR)	11.935	11.935	6986134	47.49		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	5743878	49.34		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	3641411	51.12		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.1
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
03/10/25 09:20	03/11/25 1:34	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.47	U	1	0.47	1.23	mg/kg	FE052719.D
Aliphatic C12-C16	Aliphatic C12-C16	0.30	U	1	0.30	0.82	mg/kg	FE052719.D
Aliphatic C16-C21	Aliphatic C16-C21	0.37	U	1	0.37	1.23	mg/kg	FE052719.D
Aliphatic C21-C28	Aliphatic C21-C28	0.98	U	1	0.98	1.64	mg/kg	FE052719.D
Aliphatic C28-C40	Aliphatic C28-C40	2.22	U	1	2.22	2.46	mg/kg	FE052719.D
Aromatic C10-C12	Aromatic C10-C12	0.37	U	1	0.37	0.82	mg/kg	FF015640.D
Aromatic C12-C16	Aromatic C12-C16	0.42	U	1	0.42	1.23	mg/kg	FF015640.D
Aromatic C16-C21	Aromatic C16-C21	1.18	U	1	1.18	2.05	mg/kg	FF015640.D
Aromatic C21-C36	Aromatic C21-C36	2.46	U	1	2.46	3.28	mg/kg	FF015640.D
Total AliphaticEPH	Total AliphaticEPH	4.34	U		4.34	7.38	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.43	U		4.43	7.38	mg/kg	
Total EPH	Total EPH	8.76	U		8.76	14.8	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.1
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
FE052719.D	1	03/10/25	03/11/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.47	U	0.47	1.23	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.30	U	0.30	0.82	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.37	U	0.37	1.23	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.98	U	0.98	1.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.22	U	2.22	2.46	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.0		40 - 140	66%	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:	Q1488-11	Acq On:	11 Mar 2025 01:34
Client Sample ID:	ENV-104-SB02	Operator:	YP\AJ
Data file:	FE052719.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	110142	0.706	300	ug/ml
Aliphatic C12-C16	6.797	10.250	257610	1.694	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	106151	0.832	600	ug/ml
Aliphatic EPH	3.151	22.234	473903	3.232		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.357	13.357	4009135	33.02		ug/ml
Aliphatic C9-C28	3.151	17.305	367752	2.4	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.1
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
FF015640.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.37	U	0.37	0.82	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.42	U	0.42	1.23	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.18	U	1.18	2.05	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.46	U	2.46	3.28	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.5		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.5		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-11	Acq On:	10 Mar 2025 22:10
Client Sample ID:	ENV-104-SB02	Operator:	YP\AJ
Data file:	FF015640.D	Misc:	
Instrument:	FID_F	ALS Vial:	82
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	0	0	200	ug/ml
Aromatic C12-C16	6.378	9.069	0	0	300	ug/ml
Aromatic C16-C21	9.070	13.390	1658092	12.463	500	ug/ml
Aromatic C21-C36	13.391	18.845	265196	2.039	800	ug/ml
Aromatic EPH	4.505	18.845	1923288	14.502		ug/ml
ortho-Terphenyl (SURR)	11.934	11.934	4906237	33.35		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	6223400	53.46		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	3813525	53.54		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	810 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
03/05/25 08:25	03/05/25 18:27	PB166976

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.04	J	1	7.11	37.0	ug/l	FC068373.D
Aliphatic C12-C16	Aliphatic C12-C16	14.0	J	1	4.46	24.7	ug/l	FC068373.D
Aliphatic C16-C21	Aliphatic C16-C21	12.8	J	1	6.35	37.0	ug/l	FC068373.D
Aliphatic C21-C28	Aliphatic C21-C28	11.9	J	1	11.1	49.4	ug/l	FC068373.D
Aliphatic C28-C40	Aliphatic C28-C40	61.2	J	1	21.0	74.1	ug/l	FC068373.D
Aromatic C10-C12	Aromatic C10-C12	9.38	J	1	4.10	24.7	ug/l	FD049163.D
Aromatic C12-C16	Aromatic C12-C16	13.0	J	1	4.56	37.0	ug/l	FD049163.D
Aromatic C16-C21	Aromatic C16-C21	136		1	15.7	61.7	ug/l	FD049163.D
Aromatic C21-C36	Aromatic C21-C36	51.3	J	1	31.1	98.8	ug/l	FD049163.D
Total AliphaticEPH	Total AliphaticEPH	108	J		50.0	222	ug/l	
Total AromaticEPH	Total AromaticEPH	210	J		55.5	222	ug/l	
Total EPH	Total EPH	318	J		105	444	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	810 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068373.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.04	J	7.11	37.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	14.0	J	4.46	24.7	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	12.8	J	6.35	37.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	11.9	J	11.1	49.4	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	61.2	J	21.0	74.1	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.2		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1488-13	Acq On:	05 Mar 2025 18:27
Client Sample ID:	ENV-102-GW01	Operator:	YP/AJ
Data file:	FC068373.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.102	6.366	459255	3.256	300	ug/ml
Aliphatic C12-C16	6.367	9.749	773343	5.659	200	ug/ml
Aliphatic C16-C21	9.750	13.103	681686	5.179	300	ug/ml
Aliphatic C21-C28	13.104	16.755	590149	4.81	400	ug/ml
Aliphatic C28-C40	16.756	21.556	2549539	24.79	600	ug/ml
Aliphatic EPH	3.102	21.556	5053972	43.694		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.834	12.834	3961758	35.22		ug/ml
Aliphatic C9-C28	3.102	16.755	2504433	18.904	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	03/04/25	
Client Sample ID:	ENV-102-GW01		SDG No.:	Q1488	
Lab Sample ID:	Q1488-13		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	810	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049163.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.38	J	4.10	24.7	ug/l
Aromatic C12-C16	Aromatic C12-C16	13.0	J	4.56	37.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	136		15.7	61.7	ug/l
Aromatic C21-C36	Aromatic C21-C36	51.3	J	31.1	98.8	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.1		40 - 140	116%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.3		40 - 140	119%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-13	Acq On:	05 Mar 2025 18:27
Client Sample ID:	ENV-102-GW01	Operator:	YP/AJ
Data file:	FD049163.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	603848	3.797	200	ug/ml
Aromatic C12-C16	5.794	8.395	849412	5.278	300	ug/ml
Aromatic C16-C21	8.396	12.660	8447939	55.086	500	ug/ml
Aromatic C21-C36	12.661	18.072	2973611	20.778	800	ug/ml
Aromatic EPH	4.075	18.072	12874810	84.939		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	5636818	34.84		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8320671	58.14		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5210148	59.27		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
03/05/25 08:25	03/05/25 19:04	PB166976

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.57	J	1	5.94	30.9	ug/l	FC068374.D
Aliphatic C12-C16	Aliphatic C12-C16	15.6	J	1	3.72	20.6	ug/l	FC068374.D
Aliphatic C16-C21	Aliphatic C16-C21	12.9	J	1	5.30	30.9	ug/l	FC068374.D
Aliphatic C21-C28	Aliphatic C21-C28	18.1	J	1	9.25	41.2	ug/l	FC068374.D
Aliphatic C28-C40	Aliphatic C28-C40	56.4	J	1	17.5	61.9	ug/l	FC068374.D
Aromatic C10-C12	Aromatic C10-C12	7.28	J	1	3.42	20.6	ug/l	FD049164.D
Aromatic C12-C16	Aromatic C12-C16	72.1		1	3.80	30.9	ug/l	FD049164.D
Aromatic C16-C21	Aromatic C16-C21	63.7		1	13.1	51.5	ug/l	FD049164.D
Aromatic C21-C36	Aromatic C21-C36	235		1	26.0	82.5	ug/l	FD049164.D
Total AliphaticEPH	Total AliphaticEPH	110	J		41.7	186	ug/l	
Total AromaticEPH	Total AromaticEPH	378			46.3	186	ug/l	
Total EPH	Total EPH	488			88.0	371	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068374.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.57	J	5.94	30.9	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	15.6	J	3.72	20.6	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	12.9	J	5.30	30.9	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	18.1	J	9.25	41.2	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	56.4	J	17.5	61.9	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.6		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1488-14	Acq On:	05 Mar 2025 19:04
Client Sample ID:	ENV-104-GW01	Operator:	YP/AJ
Data file:	FC068374.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.102	6.366	449284	3.186	300	ug/ml
Aliphatic C12-C16	6.367	9.749	1033866	7.566	200	ug/ml
Aliphatic C16-C21	9.750	13.103	820660	6.235	300	ug/ml
Aliphatic C21-C28	13.104	16.755	1078800	8.793	400	ug/ml
Aliphatic C28-C40	16.756	21.556	2811569	27.338	600	ug/ml
Aliphatic EPH	3.102	21.556	6194179	53.116		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.836	12.836	4675167	41.57		ug/ml
Aliphatic C9-C28	3.102	16.755	3382610	25.78	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	03/04/25	
Client Sample ID:	ENV-104-GW01		SDG No.:	Q1488	
Lab Sample ID:	Q1488-14		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	970	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049164.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	7.28	J	3.42	20.6	ug/l
Aromatic C12-C16	Aromatic C12-C16	72.1		3.80	30.9	ug/l
Aromatic C16-C21	Aromatic C16-C21	63.7		13.1	51.5	ug/l
Aromatic C21-C36	Aromatic C21-C36	235		26.0	82.5	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.9		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.5		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.4		40 - 140	91%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-14	Acq On:	05 Mar 2025 19:04
Client Sample ID:	ENV-104-GW01	Operator:	YP/AJ
Data file:	FD049164.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	561258	3.529	200	ug/ml
Aromatic C12-C16	5.794	8.395	5625234	34.953	300	ug/ml
Aromatic C16-C21	8.396	12.660	4741557	30.918	500	ug/ml
Aromatic C21-C36	12.661	18.072	16337879	114.159	800	ug/ml
Aromatic EPH	4.075	18.072	27265928	183.56		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	7345608	45.41		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7709000	53.87		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	4707811	53.55		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Run Number: FC030525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166976BL	80			0
PB166976BS	87			0
PB166976BSD	89			0
ENV-102-GW01	70			0
ENV-104-GW01	83			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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Run Number: FD030525AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166976BL	114	117	99	0
PB166976BS	118	115	104	0
PB166976BSD	120	118	106	0
ENV-102-GW01	116	119	70	0
ENV-104-GW01	108	107	91	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Run Number: FE031025AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167058BL	74			0
PB167058BS	85			0
PB167058BSD	87			0
ENV-101-SB01	102			0
ENV-101-SB01MS	74			0
ENV-101-SB01MSD	77			0
ENV-101-SB02	69			0
ENV-102-SB01	99			0
ENV-102-SB02	73			0
ENV-104-SB01	86			0
ENV-104-SB02	66			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.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Run Number: FF031025AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167058BL	105	111	85	0
PB167058BS	132	135	111	0
PB167058BSD	118	119	99	0
ENV-101-SB01	94	90	69	0
ENV-101-SB01MS	110	108	65	0
ENV-101-SB01MSD	105	104	62	0
ENV-101-SB02	127	119	53	0
ENV-102-SB01	112	110	91	0
ENV-102-SB02	105	102	77	0
ENV-104-SB01	99	102	95	0
ENV-104-SB02	107	107	67	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : Q1488-01MS **Datafile:** FE052713.D

Client ID : ENV-101-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.3	0	6.85	61		(40-140)
Aliphatic C12-C16	7.5	0	6.01	80		(40-140)
Aliphatic C16-C21	11.3	0	9.92	88		(40-140)
Aliphatic C21-C28	15.1	0	13.1	87		(40-140)
Aliphatic C28-C40	22.6	0	22.1	98		(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:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : Q1488-01MSD **Datafile:** FE052714.D

Client ID : ENV-101-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	11.3	0	6.97	62		1.63 |	(40-140)	25
Aliphatic C12-C16	7.5	0	6.12	81		1.86 |	(40-140)	25
Aliphatic C16-C21	11.3	0	10.1	90		1.8 |	(40-140)	25
Aliphatic C21-C28	15.1	0	13.3	88		1.6 |	(40-140)	25
Aliphatic C28-C40	22.6	0	22.5	100		1.82 |	(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:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : Q1488-01MS **Datafile:** FF015634.D

Client ID : ENV-101-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	5.65	75		(40-140)
Aromatic C12-C16	11.3	0	9.65	86		(40-140)
Aromatic C16-C21	18.8	0	20.2	107		(40-140)
Aromatic C21-C36	30.1	0	28.9	96		(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:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : Q1488-01MSD **Datafile:** FF015635.D

Client ID : ENV-101-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	5.41	72		4.35 |	(40-140)	25
Aromatic C12-C16	11.3	0	9.32	83		3.45 |	(40-140)	25
Aromatic C16-C21	18.8	0	19.4	103		3.81 |	(40-140)	25
Aromatic C21-C36	30.1	0	28.0	93		3.17 |	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB166976BS **Datafile:** FC068370.D

Client ID : PB166976BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	152	51		(40-140)
Aliphatic C12-C16	200	152	76		(40-140)
Aliphatic C16-C21	300	262	87		(40-140)
Aliphatic C21-C28	400	362	90		(40-140)
Aliphatic C28-C40	600	596	99		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB166976BSD **Datafile:** FC068371.D

Client ID : PB166976BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	152	51		0.0657(	(40-140)	50
Aliphatic C12-C16	200	152	76		0|	(40-140)	50
Aliphatic C16-C21	300	263	88		0.41|	(40-140)	50
Aliphatic C21-C28	400	362	90		0|	(40-140)	50
Aliphatic C28-C40	600	597	100		0.2|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB166976BS **Datafile:** FD049160.D

Client ID : PB166976BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	149	74		(40-140)
Aromatic C12-C16	300	274	91		(40-140)
Aromatic C16-C21	500	525	105		(40-140)
Aromatic C21-C36	800	822	102		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB166976BSD **Datafile:** FD049161.D

Client ID : PB166976BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	151	76		1.3|	(40-140)	50
Aromatic C12-C16	300	280	93		2.2|	(40-140)	50
Aromatic C16-C21	500	534	106		1.7|	(40-140)	50
Aromatic C21-C36	800	835	104		2.3|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB167058BS **Datafile:** FE052709.D

Client ID : PB167058BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.47	55		(40-140)
Aliphatic C12-C16	6.7	5.36	80		(40-140)
Aliphatic C16-C21	10	9.08	91		(40-140)
Aliphatic C21-C28	13.3	12.1	91		(40-140)
Aliphatic C28-C40	20.0	20.4	102		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB167058BSD **Datafile:** FE052710.D

Client ID : PB167058BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.52	55		0.97|	(40-140)	50
Aliphatic C12-C16	6.7	5.40	81		0.68|	(40-140)	50
Aliphatic C16-C21	10	9.11	91		0.28|	(40-140)	50
Aliphatic C21-C28	13.3	12.2	92		0.83|	(40-140)	50
Aliphatic C28-C40	20.0	20.5	102		0.55|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB167058BS **Datafile:** FF015630.D

Client ID : PB167058BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.59	84		(40-140)
Aromatic C12-C16	10	9.97	100		(40-140)
Aromatic C16-C21	16.7	19.4	116		(40-140)
Aromatic C21-C36	26.6	29.9	112		(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:** Q1488 **SAS No :** Q1488 **SDG No:** Q1488

Sample No : PB167058BSD **Datafile:** FF015631.D

Client ID : PB167058BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.04	76		10.3|	(40-140)	50
Aromatic C12-C16	10	8.92	89		11.2|	(40-140)	50
Aromatic C16-C21	16.7	17.2	103		11.6|	(40-140)	50
Aromatic C21-C36	26.6	26.7	100		11.1|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB166976BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Instrument ID: FID_C Lab Sample ID: PB166976BL

Matrix: (soil/water) Water Date Extracted: 3/5/2025 8:25:00 AM

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166976BS	PB166976BS
PB166976BSD	PB166976BSD
ENV-102-GW01	Q1488-13
ENV-104-GW01	Q1488-14

COMMENTS:

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB167058BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

Instrument ID: FID_C Lab Sample ID: PB167058BL

Matrix: (soil/water) Solid Date Extracted: 3/10/2025 9:20:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167058BS	PB167058BS
PB167058BSD	PB167058BSD
ENV-101-SB01	Q1488-01
ENV-101-SB01MS	Q1488-01MS
ENV-101-SB01MSD	Q1488-01MSD
ENV-101-SB02	Q1488-03
ENV-102-SB01	Q1488-05
ENV-102-SB02	Q1488-07
ENV-104-SB01	Q1488-09
ENV-104-SB02	Q1488-11

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:	PB166976BL	SDG No.:	Q1488
Lab Sample ID:	PB166976BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
03/05/25 08:25	03/05/25 15:58	PB166976

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068369.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068369.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068369.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068369.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068369.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049159.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD049159.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD049159.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049159.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166976BL	SDG No.:	Q1488
Lab Sample ID:	PB166976BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068369.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	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:	PB166976BL	Acq On:	05 Mar 2025 15:58
Client Sample ID:	PB166976BL	Operator:	YP/AJ
Data file:	FC068369.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.102	6.366	0	0	300	ug/ml
Aliphatic C12-C16	6.367	9.749	0	0	200	ug/ml
Aliphatic C16-C21	9.750	13.103	0	0	300	ug/ml
Aliphatic C21-C28	13.104	16.755	0	0	400	ug/ml
Aliphatic C28-C40	16.756	21.556	0	0	600	ug/ml
Aliphatic EPH	3.102	21.556	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.835	12.835	4498831	40		ug/ml
Aliphatic C9-C28	3.102	16.755	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:	PB166976BL		SDG No.:	Q1488	
Lab Sample ID:	PB166976BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049159.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.0		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.3		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.6		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166976BL	Acq On:	05 Mar 2025 15:58
Client Sample ID:	PB166976BL	Operator:	YP/AJ
Data file:	FD049159.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	0	0	200	ug/ml
Aromatic C12-C16	5.794	8.395	0	0	300	ug/ml
Aromatic C16-C21	8.396	12.660	0	0	500	ug/ml
Aromatic C21-C36	12.661	18.072	0	0	800	ug/ml
Aromatic EPH	4.075	18.072	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8157579	57		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5123276	58.28		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	8019786	49.57		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:	PB167058BL	SDG No.:	Q1488
Lab Sample ID:	PB167058BL	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
FF015629.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.4		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.7		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.7		40 - 140	85%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167058BL	Acq On:	10 Mar 2025 16:47
Client Sample ID:	PB167058BL	Operator:	YP\AJ
Data file:	FF015629.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	0	0	200	ug/ml
Aromatic C12-C16	6.378	9.069	0	0	300	ug/ml
Aromatic C16-C21	9.070	13.390	0	0	500	ug/ml
Aromatic C21-C36	13.391	18.845	0	0	800	ug/ml
Aromatic EPH	4.505	18.845	0	0		ug/ml
ortho-Terphenyl (SURR)	11.928	11.928	6277057	42.67		ug/ml
2-Bromonaphthalene (SURR)	7.986	7.986	6103809	52.43		ug/ml
2-Flurobiphenyl (SURR)	8.864	8.864	3965538	55.67		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:	PB167058BL	SDG No.:	Q1488
Lab Sample ID:	PB167058BL	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
03/10/25 09:20	03/10/25 20:02	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FE052708.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FE052708.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FE052708.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FE052708.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FE052708.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FF015629.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FF015629.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FF015629.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FF015629.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.01	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167058BL	SDG No.:	Q1488
Lab Sample ID:	PB167058BL	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
FE052708.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.1		40 - 140	74%	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:	PB167058BL	Acq On:	10 Mar 2025 20:02
Client Sample ID:	PB167058BL	Operator:	YP\AJ
Data file:	FE052708.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	0	0	300	ug/ml
Aliphatic C12-C16	6.797	10.250	0	0	200	ug/ml
Aliphatic C16-C21	10.251	13.630	0	0	300	ug/ml
Aliphatic C21-C28	13.631	17.305	0	0	400	ug/ml
Aliphatic C28-C40	17.306	22.234	0	0	600	ug/ml
Aliphatic EPH	3.151	22.234	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.358	13.358	4505970	37.11		ug/ml
Aliphatic C9-C28	3.151	17.305	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:	PB166976BS	SDG No.:	Q1488
Lab Sample ID:	PB166976BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
03/05/25 08:25	03/05/25 16:35	PB166976

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	152		1	5.76	30.0	ug/l	FC068370.D
Aliphatic C12-C16	Aliphatic C12-C16	152		1	3.61	20.0	ug/l	FC068370.D
Aliphatic C16-C21	Aliphatic C16-C21	262		1	5.14	30.0	ug/l	FC068370.D
Aliphatic C21-C28	Aliphatic C21-C28	362		1	8.97	40.0	ug/l	FC068370.D
Aliphatic C28-C40	Aliphatic C28-C40	596		1	17.0	60.0	ug/l	FC068370.D
Aromatic C10-C12	Aromatic C10-C12	149		1	3.32	20.0	ug/l	FD049160.D
Aromatic C12-C16	Aromatic C12-C16	274		1	3.69	30.0	ug/l	FD049160.D
Aromatic C16-C21	Aromatic C16-C21	525		1	12.7	50.0	ug/l	FD049160.D
Aromatic C21-C36	Aromatic C21-C36	822		1	25.2	80.0	ug/l	FD049160.D
Total AliphaticEPH	Total AliphaticEPH	1520			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1770			44.9	180	ug/l	
Total EPH	Total EPH	3290			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166976BS	SDG No.:	Q1488
Lab Sample ID:	PB166976BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068370.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	152		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	152		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	262		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	362		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	596		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.4		40 - 140	87%	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:	PB166976BS	Acq On:	05 Mar 2025 16:35
Client Sample ID:	PB166976BS	Operator:	YP/AJ
Data file:	FC068370.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.102	6.366	10726225	76.053	300	ug/ml
Aliphatic C12-C16	6.367	9.749	10409797	76.176	200	ug/ml
Aliphatic C16-C21	9.750	13.103	17289732	131.35	300	ug/ml
Aliphatic C21-C28	13.104	16.755	22226859	181.161	400	ug/ml
Aliphatic C28-C40	16.756	21.556	30680533	298.314	600	ug/ml
Aliphatic EPH	3.102	21.556	91333146	763.054		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.835	12.835	4883798	43.42		ug/ml
Aliphatic C9-C28	3.102	16.755	60652613	464.74	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:	PB166976BS		SDG No.:	Q1488	
Lab Sample ID:	PB166976BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049160.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	149		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	274		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	525		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	822		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.1		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.5		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.0		40 - 140	104%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166976BS	Acq On:	05 Mar 2025 16:35
Client Sample ID:	PB166976BS	Operator:	YP/AJ
Data file:	FD049160.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	11902233	74.847	200	ug/ml
Aromatic C12-C16	5.794	8.395	22111113	137.391	300	ug/ml
Aromatic C16-C21	8.396	12.660	40328564	262.968	500	ug/ml
Aromatic C21-C36	12.661	18.072	58861958	411.292	800	ug/ml
Aromatic EPH	4.075	18.072	133203868	886.498		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8453892	59.07		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5054241	57.49		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8417347	52.03		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167058BS	SDG No.:	Q1488
Lab Sample ID:	PB167058BS	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
03/10/25 09:20	03/10/25 20:32	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.47		1	0.38	1.00	mg/kg	FE052709.D
Aliphatic C12-C16	Aliphatic C12-C16	5.36		1	0.24	0.67	mg/kg	FE052709.D
Aliphatic C16-C21	Aliphatic C16-C21	9.08		1	0.30	1.00	mg/kg	FE052709.D
Aliphatic C21-C28	Aliphatic C21-C28	12.1		1	0.80	1.33	mg/kg	FE052709.D
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1	1.80	2.00	mg/kg	FE052709.D
Aromatic C10-C12	Aromatic C10-C12	5.59		1	0.30	0.67	mg/kg	FF015630.D
Aromatic C12-C16	Aromatic C12-C16	9.97		1	0.34	1.00	mg/kg	FF015630.D
Aromatic C16-C21	Aromatic C16-C21	19.4		1	0.96	1.67	mg/kg	FF015630.D
Aromatic C21-C36	Aromatic C21-C36	29.9		1	2.00	2.66	mg/kg	FF015630.D
Total AliphaticEPH	Total AliphaticEPH	52.4			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	64.9			3.60	6.00	mg/kg	
Total EPH	Total EPH	117			7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167058BS	SDG No.:	Q1488
Lab Sample ID:	PB167058BS	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
FE052709.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.47		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.36		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.08		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.1		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.3		40 - 140	85%	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:	PB167058BS	Acq On:	10 Mar 2025 20:32
Client Sample ID:	PB167058BS	Operator:	YP\AJ
Data file:	FE052709.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	12795551	82.05	300	ug/ml
Aliphatic C12-C16	6.797	10.250	12235580	80.445	200	ug/ml
Aliphatic C16-C21	10.251	13.630	19964697	136.233	300	ug/ml
Aliphatic C21-C28	13.631	17.305	25917745	181.94	400	ug/ml
Aliphatic C28-C40	17.306	22.234	39077191	306.274	600	ug/ml
Aliphatic EPH	3.151	22.234	109990764	786.942		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.359	13.359	5139492	42.33		ug/ml
Aliphatic C9-C28	3.151	17.305	70913573	480.668	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:	PB167058BS	SDG No.:	Q1488
Lab Sample ID:	PB167058BS	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
FF015630.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.59		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.97		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	19.4		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	29.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	66.2		40 - 140	132%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	67.6		40 - 140	135%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	55.5		40 - 140	111%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167058BS	Acq On:	10 Mar 2025 17:17
Client Sample ID:	PB167058BS	Operator:	YP\AJ
Data file:	FF015630.D	Misc:	
Instrument:	FID_F	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	10770670	83.909	200	ug/ml
Aromatic C12-C16	6.378	9.069	20479452	149.703	300	ug/ml
Aromatic C16-C21	9.070	13.390	38746853	291.244	500	ug/ml
Aromatic C21-C36	13.391	18.845	58466361	449.548	800	ug/ml
Aromatic EPH	4.505	18.845	128463336	974.405		ug/ml
ortho-Terphenyl (SURR)	11.934	11.934	8163013	55.49		ug/ml
2-Bromonaphthalene (SURR)	7.996	7.996	7701341	66.15		ug/ml
2-Flurobiphenyl (SURR)	8.873	8.873	4814742	67.59		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:	PB166976BSD	SDG No.:	Q1488
Lab Sample ID:	PB166976BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
03/05/25 08:25	03/05/25 17:12	PB166976

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	152		1	5.76	30.0	ug/l	FC068371.D
Aliphatic C12-C16	Aliphatic C12-C16	152		1	3.61	20.0	ug/l	FC068371.D
Aliphatic C16-C21	Aliphatic C16-C21	263		1	5.14	30.0	ug/l	FC068371.D
Aliphatic C21-C28	Aliphatic C21-C28	362		1	8.97	40.0	ug/l	FC068371.D
Aliphatic C28-C40	Aliphatic C28-C40	597		1	17.0	60.0	ug/l	FC068371.D
Aromatic C10-C12	Aromatic C10-C12	151		1	3.32	20.0	ug/l	FD049161.D
Aromatic C12-C16	Aromatic C12-C16	280		1	3.69	30.0	ug/l	FD049161.D
Aromatic C16-C21	Aromatic C16-C21	534		1	12.7	50.0	ug/l	FD049161.D
Aromatic C21-C36	Aromatic C21-C36	835		1	25.2	80.0	ug/l	FD049161.D
Total AliphaticEPH	Total AliphaticEPH	1530			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1800			44.9	180	ug/l	
Total EPH	Total EPH	3330			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166976BSD	SDG No.:	Q1488
Lab Sample ID:	PB166976BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068371.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	152		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	152		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	263		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	362		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	597		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.4		40 - 140	89%	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:	PB166976BSD	Acq On:	05 Mar 2025 17:12
Client Sample ID:	PB166976BSD	Operator:	YP/AJ
Data file:	FC068371.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.102	6.366	10720443	76.012	300	ug/ml
Aliphatic C12-C16	6.367	9.749	10433639	76.35	200	ug/ml
Aliphatic C16-C21	9.750	13.103	17366096	131.93	300	ug/ml
Aliphatic C21-C28	13.104	16.755	22265671	181.477	400	ug/ml
Aliphatic C28-C40	16.756	21.556	30721365	298.711	600	ug/ml
Aliphatic EPH	3.102	21.556	91507214	764.481		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.835	12.835	4989985	44.37		ug/ml
Aliphatic C9-C28	3.102	16.755	60785849	465.769	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:	PB166976BSD		SDG No.:	Q1488	
Lab Sample ID:	PB166976BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049161.D	1	03/05/25	03/05/25	PB166976

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	151		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	280		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	534		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	835		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	60.2		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.8		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.2		40 - 140	106%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166976BSD	Acq On:	05 Mar 2025 17:12
Client Sample ID:	PB166976BSD	Operator:	YP/AJ
Data file:	FD049161.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	12072040	75.915	200	ug/ml
Aromatic C12-C16	5.794	8.395	22584908	140.335	300	ug/ml
Aromatic C16-C21	8.396	12.660	41014616	267.441	500	ug/ml
Aromatic C21-C36	12.661	18.072	59763645	417.592	800	ug/ml
Aromatic EPH	4.075	18.072	135435209	901.284		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8619183	60.23		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5168475	58.79		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8602132	53.17		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:	PB167058BSD	SDG No.:	Q1488
Lab Sample ID:	PB167058BSD	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
03/10/25 09:20	03/10/25 21:02	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.52		1	0.38	1.00	mg/kg	FE052710.D
Aliphatic C12-C16	Aliphatic C12-C16	5.40		1	0.24	0.67	mg/kg	FE052710.D
Aliphatic C16-C21	Aliphatic C16-C21	9.11		1	0.30	1.00	mg/kg	FE052710.D
Aliphatic C21-C28	Aliphatic C21-C28	12.2		1	0.80	1.33	mg/kg	FE052710.D
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1	1.80	2.00	mg/kg	FE052710.D
Aromatic C10-C12	Aromatic C10-C12	5.04		1	0.30	0.67	mg/kg	FF015631.D
Aromatic C12-C16	Aromatic C12-C16	8.92		1	0.34	1.00	mg/kg	FF015631.D
Aromatic C16-C21	Aromatic C16-C21	17.2		1	0.96	1.67	mg/kg	FF015631.D
Aromatic C21-C36	Aromatic C21-C36	26.7		1	2.00	2.66	mg/kg	FF015631.D
Total AliphaticEPH	Total AliphaticEPH	52.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	57.9			3.60	6.00	mg/kg	
Total EPH	Total EPH	111			7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167058BSD	SDG No.:	Q1488
Lab Sample ID:	PB167058BSD	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
FE052710.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.52		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.40		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.11		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.2		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.6		40 - 140	87%	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:	PB167058BSD	Acq On:	10 Mar 2025 21:02
Client Sample ID:	PB167058BSD	Operator:	YP\AJ
Data file:	FE052710.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	12921375	82.857	300	ug/ml
Aliphatic C12-C16	6.797	10.250	12321945	81.013	200	ug/ml
Aliphatic C16-C21	10.251	13.630	20040339	136.749	300	ug/ml
Aliphatic C21-C28	13.631	17.305	26003921	182.545	400	ug/ml
Aliphatic C28-C40	17.306	22.234	39350470	308.416	600	ug/ml
Aliphatic EPH	3.151	22.234	110638050	791.58		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.359	13.359	5296371	43.62		ug/ml
Aliphatic C9-C28	3.151	17.305	71287580	483.164	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:	PB167058BSD	SDG No.:	Q1488
Lab Sample ID:	PB167058BSD	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
FF015631.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.04		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.92		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.2		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.7		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.9		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.7		40 - 140	119%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.4		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167058BSD	Acq On:	10 Mar 2025 17:46
Client Sample ID:	PB167058BSD	Operator:	YP\AJ
Data file:	FF015631.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	9716976	75.7	200	ug/ml
Aromatic C12-C16	6.378	9.069	18310299	133.847	300	ug/ml
Aromatic C16-C21	9.070	13.390	34377265	258.4	500	ug/ml
Aromatic C21-C36	13.391	18.845	52124145	400.783	800	ug/ml
Aromatic EPH	4.505	18.845	114528685	868.73		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	6861975	58.94		ug/ml
2-Flurobiphenyl (SURR)	8.874	8.874	4252404	59.7		ug/ml
ortho-Terphenyl (SURR)	11.935	11.935	7259660	49.35		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:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
FF015634.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.65		0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.65		0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.2		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	28.9		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.8		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.0		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.3		40 - 140	65%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-01MS	Acq On:	10 Mar 2025 19:14
Client Sample ID:	ENV-101-SB01MS	Operator:	YP\AJ
Data file:	FF015634.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	9632518	75.042	200	ug/ml
Aromatic C12-C16	6.378	9.069	17543252	128.24	300	ug/ml
Aromatic C16-C21	9.070	13.390	35645327	267.931	500	ug/ml
Aromatic C21-C36	13.391	18.845	49991384	384.384	800	ug/ml
Aromatic EPH	4.505	18.845	112812481	855.598		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	6376280	54.77		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	3847204	54.01		ug/ml
ortho-Terphenyl (SURR)	11.934	11.934	4755517	32.33		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:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
03/10/25 09:20	03/10/25 22:32	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.85		1	0.43	1.13	mg/kg	FE052713.D
Aliphatic C12-C16	Aliphatic C12-C16	6.01		1	0.27	0.75	mg/kg	FE052713.D
Aliphatic C16-C21	Aliphatic C16-C21	9.92		1	0.34	1.13	mg/kg	FE052713.D
Aliphatic C21-C28	Aliphatic C21-C28	13.1		1	0.90	1.51	mg/kg	FE052713.D
Aliphatic C28-C40	Aliphatic C28-C40	22.1		1	2.03	2.26	mg/kg	FE052713.D
Aromatic C10-C12	Aromatic C10-C12	5.65		1	0.34	0.75	mg/kg	FF015634.D
Aromatic C12-C16	Aromatic C12-C16	9.65		1	0.38	1.13	mg/kg	FF015634.D
Aromatic C16-C21	Aromatic C16-C21	20.2		1	1.08	1.88	mg/kg	FF015634.D
Aromatic C21-C36	Aromatic C21-C36	28.9		1	2.26	3.01	mg/kg	FF015634.D
Total AliphaticEPH	Total AliphaticEPH	58.0			3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	64.4			4.06	6.77	mg/kg	
Total EPH	Total EPH	122			8.04	13.6	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	ENV-101-SB01MS	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
FE052713.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.85		0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.01		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.92		0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.1		0.90	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.1		2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.2		40 - 140	74%	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:	Q1488-01MS	Acq On:	10 Mar 2025 22:32
Client Sample ID:	ENV-101-SB01MS	Operator:	YP\AJ
Data file:	FE052713.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	14189685	90.99	300	ug/ml
Aliphatic C12-C16	6.797	10.250	12145715	79.854	200	ug/ml
Aliphatic C16-C21	10.251	13.630	19314595	131.797	300	ug/ml
Aliphatic C21-C28	13.631	17.305	24800139	174.095	400	ug/ml
Aliphatic C28-C40	17.306	22.234	37529294	294.142	600	ug/ml
Aliphatic EPH	3.151	22.234	107979428	770.878		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.358	13.358	4515939	37.19		ug/ml
Aliphatic C9-C28	3.151	17.305	70450134	476.736	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:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
FF015635.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.41		0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.32		0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	19.4		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	28.0		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.6		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.1		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.2		40 - 140	62%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1488-01MSD	Acq On:	10 Mar 2025 19:43
Client Sample ID:	ENV-101-SB01MSD	Operator:	YP\AJ
Data file:	FF015635.D	Misc:	
Instrument:	FID_F	ALS Vial:	77
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.505	6.377	9225495	71.871	200	ug/ml
Aromatic C12-C16	6.378	9.069	16936549	123.805	300	ug/ml
Aromatic C16-C21	9.070	13.390	34308114	257.88	500	ug/ml
Aromatic C21-C36	13.391	18.845	48358182	371.826	800	ug/ml
Aromatic EPH	4.505	18.845	108828340	825.383		ug/ml
ortho-Terphenyl (SURR)	11.934	11.934	4585479	31.17		ug/ml
2-Bromonaphthalene (SURR)	7.997	7.997	6125678	52.62		ug/ml
2-Flurobiphenyl (SURR)	8.875	8.875	3708178	52.06		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:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
03/10/25 09:20	03/10/25 23:03	PB167058

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.97		1	0.43	1.13	mg/kg	FE052714.D
Aliphatic C12-C16	Aliphatic C12-C16	6.12		1	0.27	0.75	mg/kg	FE052714.D
Aliphatic C16-C21	Aliphatic C16-C21	10.1		1	0.34	1.13	mg/kg	FE052714.D
Aliphatic C21-C28	Aliphatic C21-C28	13.3		1	0.90	1.51	mg/kg	FE052714.D
Aliphatic C28-C40	Aliphatic C28-C40	22.5		1	2.03	2.26	mg/kg	FE052714.D
Aromatic C10-C12	Aromatic C10-C12	5.41		1	0.34	0.75	mg/kg	FF015635.D
Aromatic C12-C16	Aromatic C12-C16	9.32		1	0.38	1.13	mg/kg	FF015635.D
Aromatic C16-C21	Aromatic C16-C21	19.4		1	1.08	1.88	mg/kg	FF015635.D
Aromatic C21-C36	Aromatic C21-C36	28.0		1	2.26	3.01	mg/kg	FF015635.D
Total AliphaticEPH	Total AliphaticEPH	59.0			3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	62.1			4.06	6.77	mg/kg	
Total EPH	Total EPH	121			8.04	13.6	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	ENV-101-SB01MSD	SDG No.:	Q1488
Lab Sample ID:	Q1488-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
FE052714.D	1	03/10/25	03/10/25	PB167058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.97		0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.12		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.1		0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.3		0.90	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.5		2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.6		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1488-01MSD	Acq On:	10 Mar 2025 23:03
Client Sample ID:	ENV-101-SB01MSD	Operator:	YP\AJ
Data file:	FE052714.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	14451806	92.67	300	ug/ml
Aliphatic C12-C16	6.797	10.250	12376069	81.369	200	ug/ml
Aliphatic C16-C21	10.251	13.630	19637423	134	300	ug/ml
Aliphatic C21-C28	13.631	17.305	25253768	177.279	400	ug/ml
Aliphatic C28-C40	17.306	22.234	38123703	298.801	600	ug/ml
Aliphatic EPH	3.151	22.234	109842769	784.119		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.358	13.358	4685264	38.59		ug/ml
Aliphatic C9-C28	3.151	17.305	71719066	485.318	1200	ug/ml

CALIBRATION SUMMARY

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Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC021125AL

AreaCount

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	39331006.000	20240186.000	8511519.000	4474674.000	2221877.000	
Aliphatic C12-C16	25563872.000	13091029.000	5472087.000	2866719.000	1444048.000	
Aliphatic C16-C21	36707935.000	18751121.000	7907675.000	4144581.000	2112599.000	
Aliphatic C21-C28	45593595.000	23234194.000	9834944.000	5144532.000	2635031.000	
Aliphatic C28-C40	56736862.000	29009865.000	12324513.000	6514067.000	3350978.000	
Aliphatic EPH	203933270.000	104326395.000	44050738.000	23144573.000	11764533.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	141035.5019998	5.636				
Aliphatic C12-C16	136654.515	5.375				
Aliphatic C16-C21	131630.8946664	6.092				
Aliphatic C21-C28	122691.3215	6.255				
Aliphatic C28-C40	102846.462333	7.171				
Aliphatic EPH	122175.1266664	6.234				

Concentration

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	131103.353333	134934.573333	141858.650000	149155.800000	148125.133333	
Aliphatic C12-C16	127819.360000	130910.290000	136802.175000	143335.950000	144404.800000	
Aliphatic C16-C21	122359.783333	125007.473333	131794.583333	138152.700000	140839.933333	

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

Inital Calibration Report for SequenceID : FC021125AL

Aliphatic C21-C28	113983.987500	116170.970000	122936.800000	128613.300000	131751.550000	
Aliphatic C28-C40	94561.436666	96699.550000	102704.275000	108567.783333	111699.266666	
Aliphatic EPH	113296.261111	115918.216666	122363.161111	128580.961111	130717.033333	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.410	14212174	92.574 ug/ml
Spiked Amount	50.000		Recovery =	185.15%
12) S	1-chlorooctadecane (S...	12.849	10559687	93.495 ug/ml
Spiked Amount	50.000		Recovery =	186.99%
	Target Compounds			
1) T	n-Nonane (C9)	3.211	13034849	92.005 ug/ml
2) T	n-Decane (C10)	4.270	13187244	92.433 ug/ml
3) T	A~Naphthalene (C11.7)	5.838	14533716	93.918 ug/ml
4) T	n-Dodecane (C12)	6.280	13108913	92.818 ug/ml
5) T	A~2-methylnaphthalene...	6.891	13929436	94.987 ug/ml
6) T	n-Tetradecane (C14)	8.068	12728359	93.377 ug/ml
7) T	n-Hexadecane (C16)	9.664	12835513	93.490 ug/ml
8) T	n-Octadecane (C18)	11.104	12748213	93.034 ug/ml
10) T	n-Eicosane (C20)	12.408	12107311	92.743 ug/ml
11) T	n-Heneicosane (C21)	13.019	11852411	92.734 ug/ml
13) T	n-Docosane (C22)	13.604	11728617	92.902 ug/ml
14) T	n-Tetracosane (C24)	14.704	11568914	92.905 ug/ml
15) T	n-Hexacosane (C26)	15.723	11302843	92.721 ug/ml
16) T	n-Octacosane (C28)	16.671	10993221	92.322 ug/ml
17) T	n-Tricontane (C30)	17.556	11027160	91.890 ug/ml
18) T	n-Dotriacontane (C32)	18.388	10599289	91.711 ug/ml
19) T	n-Tetratriacontane (C34)	19.170	9898762	91.900 ug/ml
20) T	n-Hexatriacontane (C36)	19.908	8865949	92.289 ug/ml
21) T	n-Octatriacontane (C38)	20.619	8293679	91.939 ug/ml
22) T	n-Tetracontane (C40)	21.474	8052023	92.913 ug/ml

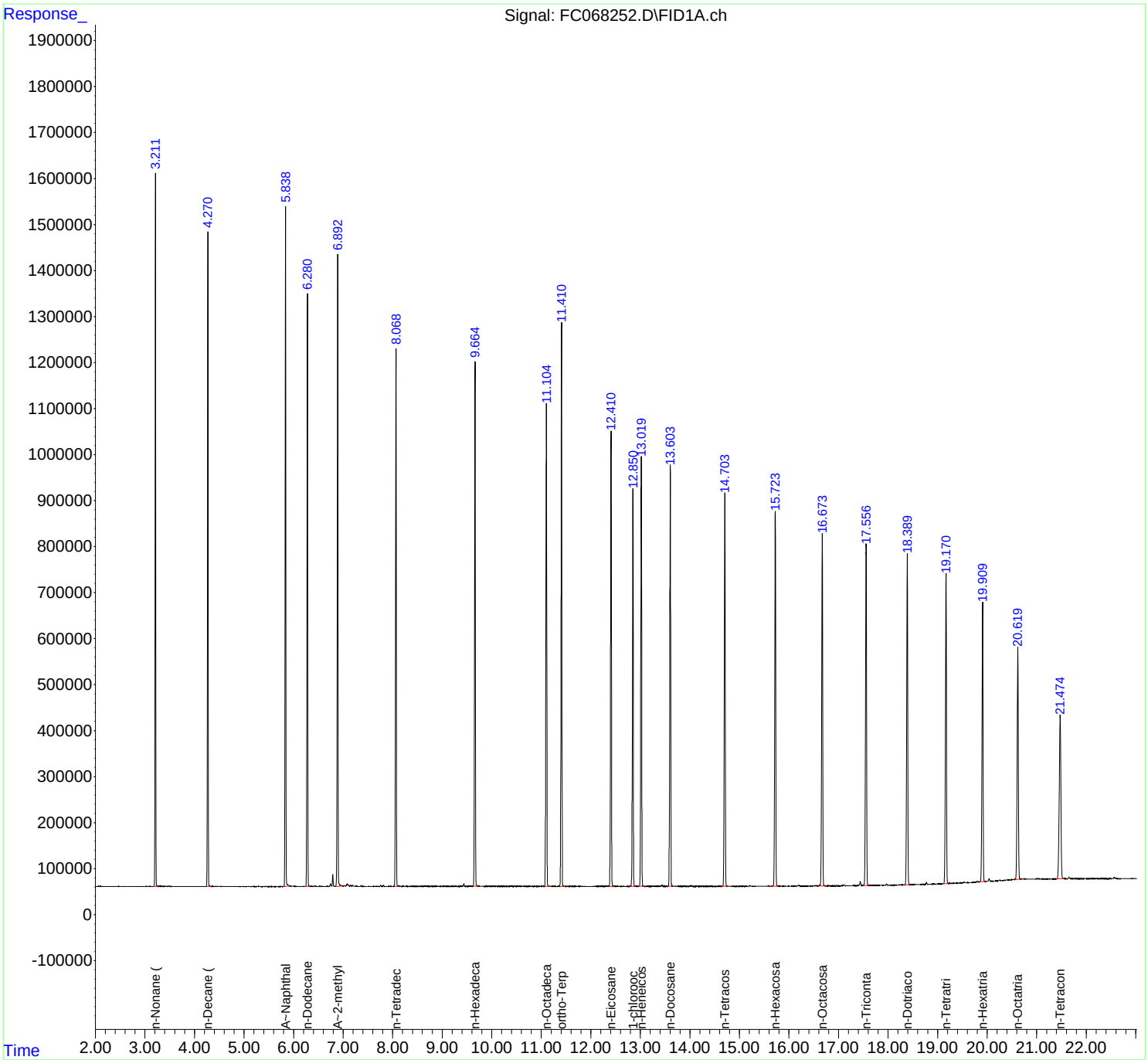
(f)=RT Delta > 1/2 Window (m)=manual int.

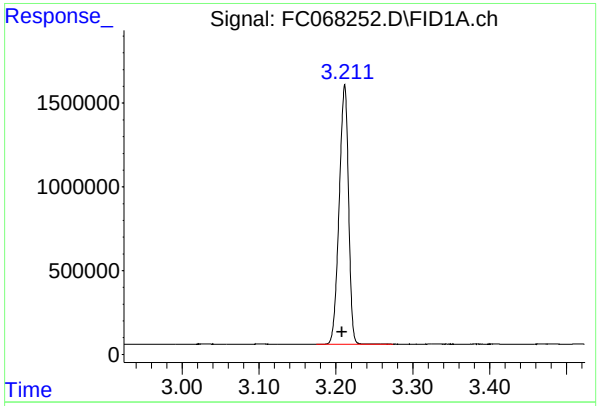
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

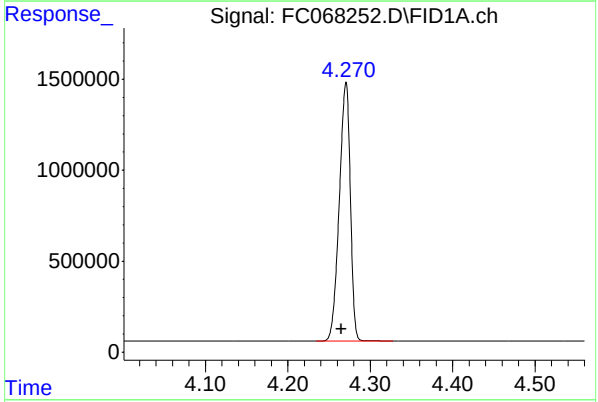




#1 n-Nonane (C9)

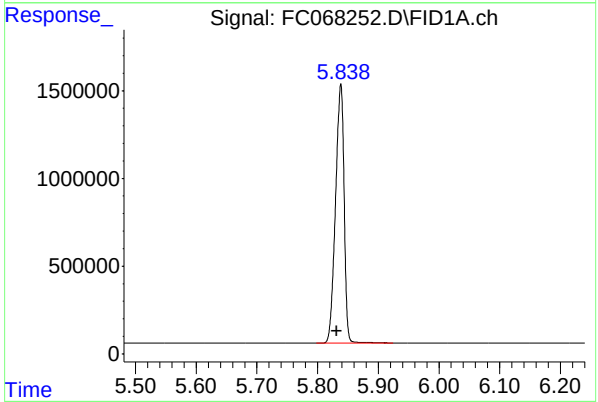
R.T.: 3.211 min
Delta R.T.: 0.003 min
Response: 13034849
Conc: 92.01 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



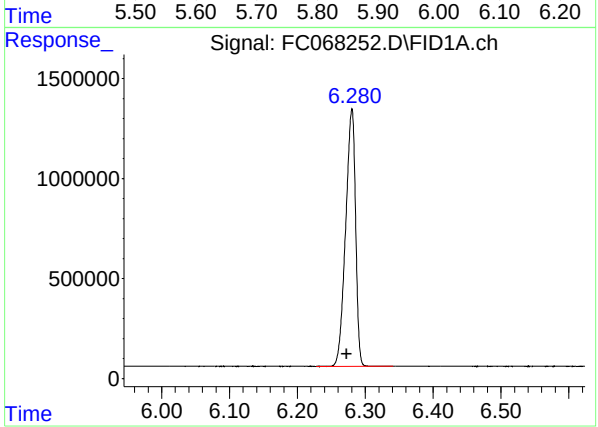
#2 n-Decane (C10)

R.T.: 4.270 min
Delta R.T.: 0.005 min
Response: 13187244
Conc: 92.43 ug/ml



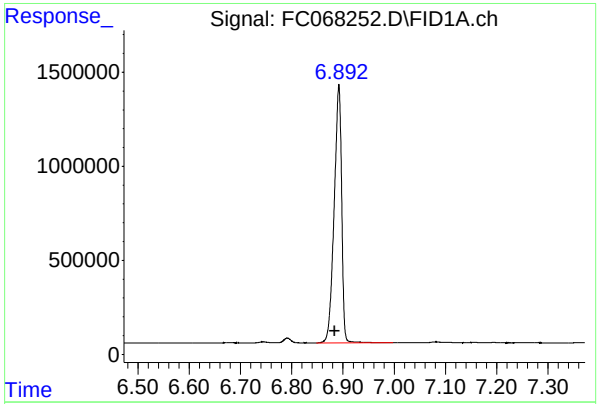
#3 A~Naphthalene (C11.7)

R.T.: 5.838 min
Delta R.T.: 0.006 min
Response: 14533716
Conc: 93.92 ug/ml



#4 n-Dodecane (C12)

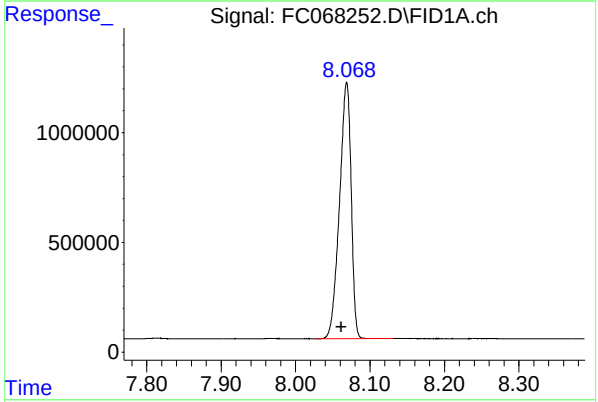
R.T.: 6.280 min
Delta R.T.: 0.007 min
Response: 13108913
Conc: 92.82 ug/ml



#5 A~2-methylnaphthalene (C12.89)

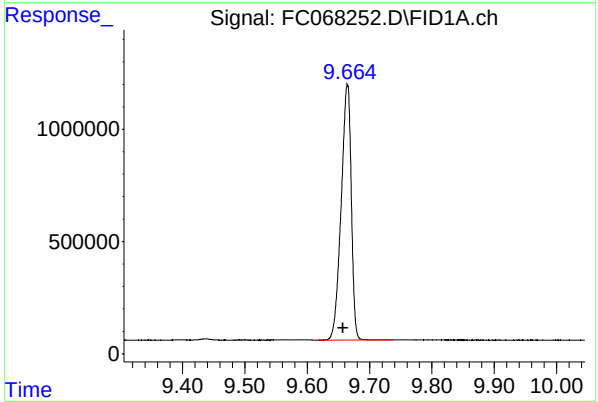
R.T.: 6.891 min
Delta R.T.: 0.007 min
Response: 13929436
Conc: 94.99 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



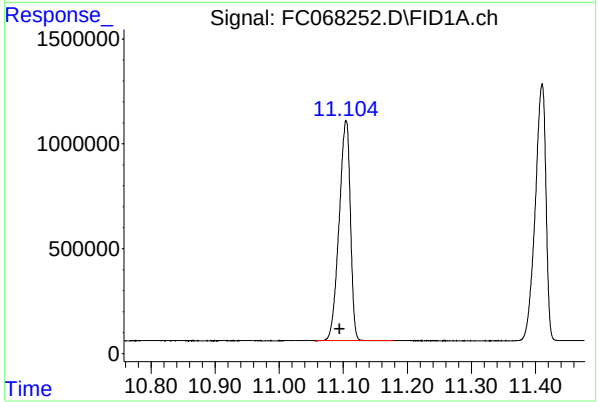
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: 0.007 min
Response: 12728359
Conc: 93.38 ug/ml



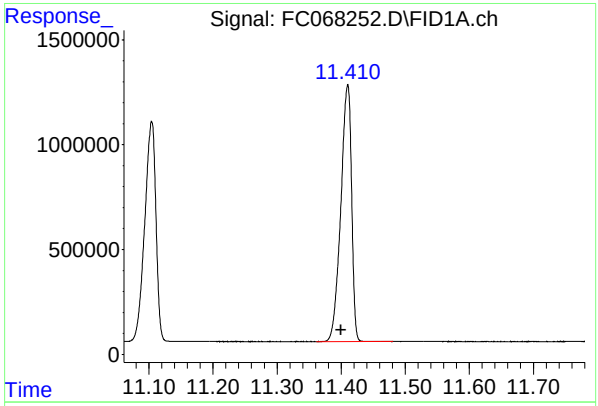
#7 n-Hexadecane (C16)

R.T.: 9.664 min
Delta R.T.: 0.007 min
Response: 12835513
Conc: 93.49 ug/ml



#8 n-Octadecane (C18)

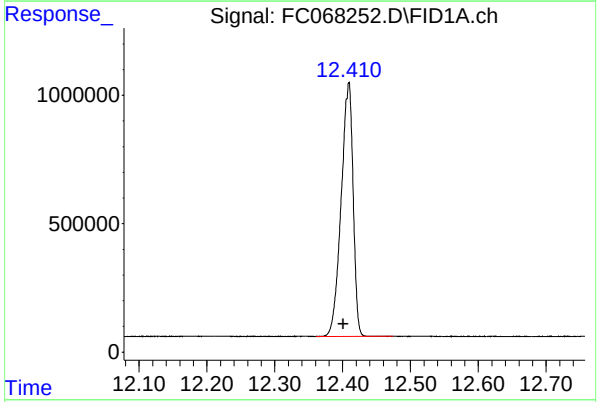
R.T.: 11.104 min
Delta R.T.: 0.009 min
Response: 12748213
Conc: 93.03 ug/ml



#9 ortho-Terphenyl (SURR)

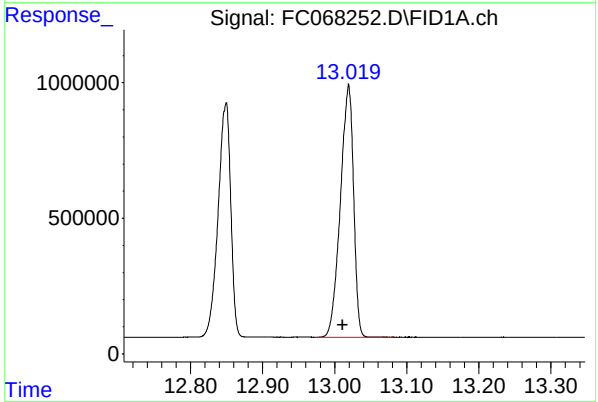
R.T.: 11.410 min
Delta R.T.: 0.010 min
Response: 14212174
Conc: 92.57 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



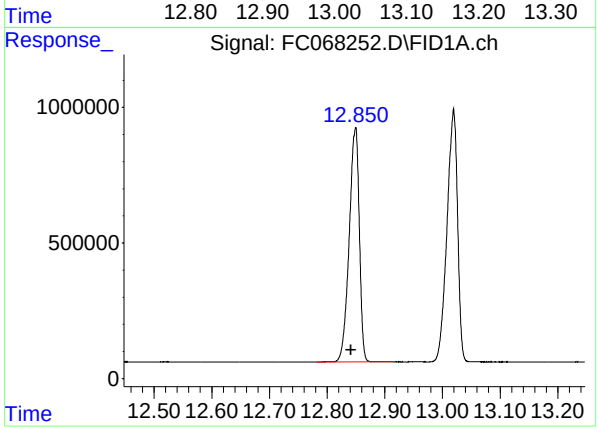
#10 n-Eicosane (C20)

R.T.: 12.408 min
Delta R.T.: 0.007 min
Response: 12107311
Conc: 92.74 ug/ml



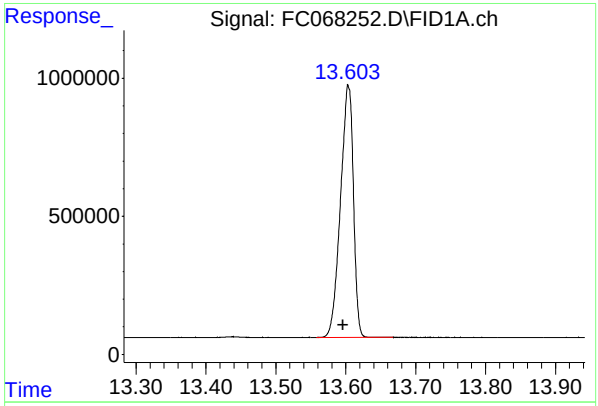
#11 n-Heneicosane (C21)

R.T.: 13.019 min
Delta R.T.: 0.008 min
Response: 11852411
Conc: 92.73 ug/ml



#12 1-chlorooctadecane (SURR)

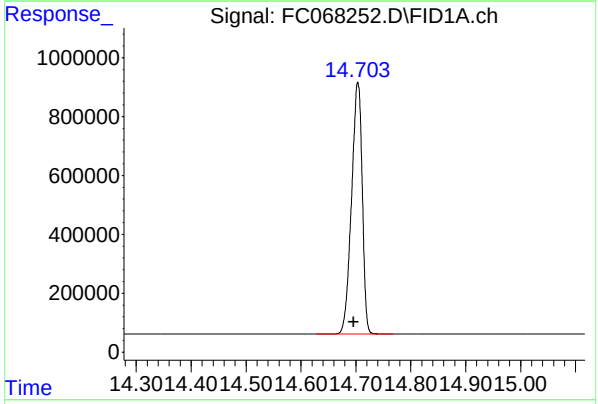
R.T.: 12.849 min
Delta R.T.: 0.007 min
Response: 10559687
Conc: 93.50 ug/ml



#13 n-Docosane (C22)

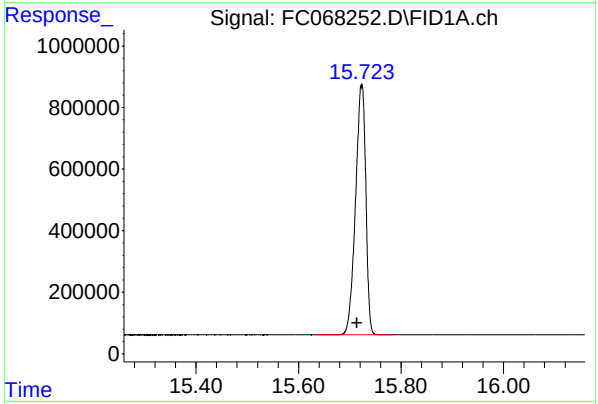
R.T.: 13.604 min
Delta R.T.: 0.008 min
Response: 11728617
Conc: 92.90 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



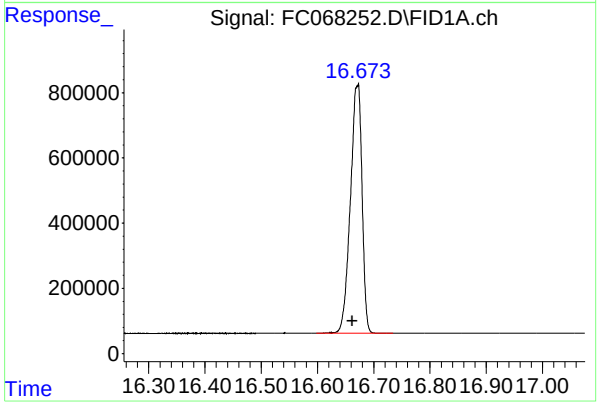
#14 n-Tetracosane (C24)

R.T.: 14.704 min
Delta R.T.: 0.008 min
Response: 11568914
Conc: 92.91 ug/ml



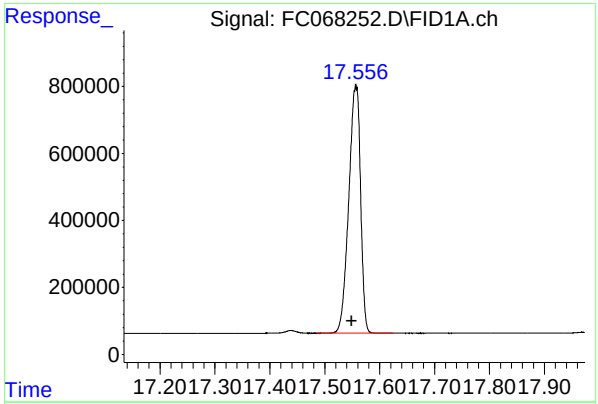
#15 n-Hexacosane (C26)

R.T.: 15.723 min
Delta R.T.: 0.009 min
Response: 11302843
Conc: 92.72 ug/ml



#16 n-Octacosane (C28)

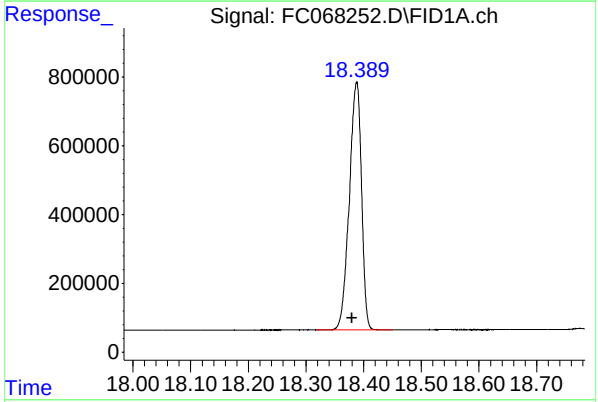
R.T.: 16.671 min
Delta R.T.: 0.009 min
Response: 10993221
Conc: 92.32 ug/ml



#17 n-Tricontane (C30)

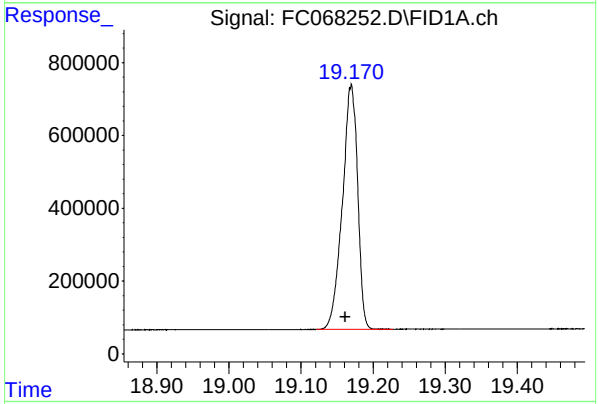
R.T.: 17.556 min
Delta R.T.: 0.007 min
Response: 11027160
Conc: 91.89 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



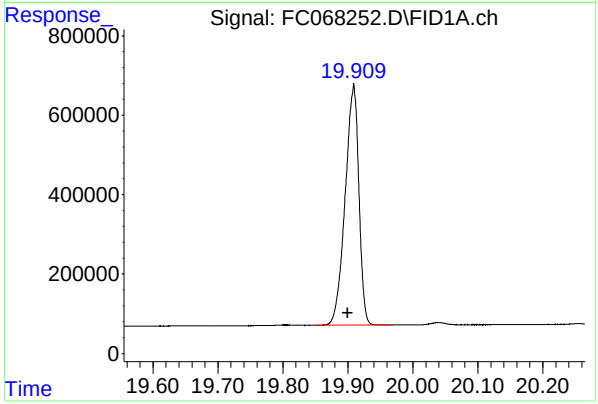
#18 n-Dotriacontane (C32)

R.T.: 18.388 min
Delta R.T.: 0.008 min
Response: 10599289
Conc: 91.71 ug/ml



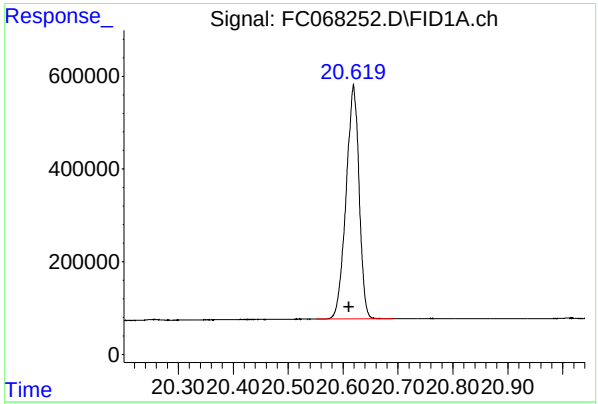
#19 n-Tetratriacontane (C34)

R.T.: 19.170 min
Delta R.T.: 0.008 min
Response: 9898762
Conc: 91.90 ug/ml



#20 n-Hexatriacontane (C36)

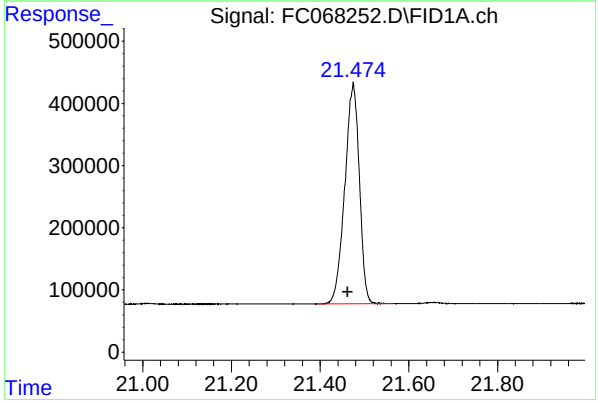
R.T.: 19.908 min
Delta R.T.: 0.008 min
Response: 8865949
Conc: 92.29 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.619 min
Delta R.T.: 0.008 min
Response: 8293679
Conc: 91.94 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.474 min
Delta R.T.: 0.012 min
Response: 8052023
Conc: 92.91 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.211	3.174	3.274	BB	1536067	13034849	89.69%	5.069%
2	4.270	4.234	4.328	BB	1438029	13187244	90.74%	5.128%
3	5.838	5.798	5.924	BB	1468511	14533716	100.00%	5.651%
4	6.280	6.228	6.341	BB	1303761	13108913	90.20%	5.097%
5	6.891	6.848	6.998	BB	1352654	13929436	95.84%	5.416%
6	8.068	8.028	8.131	BB	1162652	12728359	87.58%	4.949%
7	9.664	9.614	9.738	BB	1144286	12835513	88.32%	4.991%
8	11.104	11.058	11.178	BB	1054227	12748213	87.71%	4.957%
9	11.410	11.361	11.481	BB	1241101	14212174	97.79%	5.526%
10	12.408	12.361	12.474	BB	966080	12107311	83.30%	4.708%
11	12.849	12.781	12.914	BB	856617	10559687	72.66%	4.106%
12	13.019	12.974	13.081	BB	912197	11852411	81.55%	4.609%
13	13.604	13.558	13.668	BB	916235	11728617	80.70%	4.561%
14	14.704	14.628	14.768	BB	856005	11568914	79.60%	4.499%
15	15.723	15.634	15.784	BB	820737	11302843	77.77%	4.395%
16	16.671	16.598	16.734	BB	759899	10993221	75.64%	4.275%
17	17.556	17.484	17.624	BB	738963	11027160	75.87%	4.288%
18	18.388	18.318	18.451	BB	719758	10599289	72.93%	4.122%
19	19.170	19.121	19.228	BB	668913	9898762	68.11%	3.849%
20	19.908	19.851	19.969	BBA	593167	8865949	61.00%	3.448%
21	20.619	20.551	20.691	BB	499026	8293679	57.07%	3.225%
22	21.474	21.391	21.564	BB	353119	8052023	55.40%	3.131%
			Sum of corrected areas:			257168283		

Aliphatic EPH 021125.M Tue Feb 11 02:39:04 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.404	7265657	47.326 ug/ml
Spiked Amount	50.000		Recovery =	94.65%
12) S	1-chlorooctadecane (S...	12.845	5379642	47.631 ug/ml
Spiked Amount	50.000		Recovery =	95.26%
	Target Compounds			
1) T	n-Nonane (C9)	3.209	6719412	47.428 ug/ml
2) T	n-Decane (C10)	4.267	6784596	47.555 ug/ml
3) T	A~Naphthalene (C11.7)	5.834	7434634	48.043 ug/ml
4) T	n-Dodecane (C12)	6.276	6736178	47.696 ug/ml
5) T	A~2-methylnaphthalene...	6.887	7096295	48.391 ug/ml
6) T	n-Tetradecane (C14)	8.065	6521596	47.844 ug/ml
7) T	n-Hexadecane (C16)	9.660	6569433	47.850 ug/ml
8) T	n-Octadecane (C18)	11.099	6516282	47.555 ug/ml
10) T	n-Eicosane (C20)	12.404	6182901	47.362 ug/ml
11) T	n-Heneicosane (C21)	13.014	6051938	47.351 ug/ml
13) T	n-Docosane (C22)	13.599	5978682	47.357 ug/ml
14) T	n-Tetracosane (C24)	14.700	5893630	47.329 ug/ml
15) T	n-Hexacosane (C26)	15.718	5756725	47.224 ug/ml
16) T	n-Octacosane (C28)	16.665	5605157	47.073 ug/ml
17) T	n-Tricontane (C30)	17.551	5630196	46.917 ug/ml
18) T	n-Dotriacontane (C32)	18.383	5417986	46.879 ug/ml
19) T	n-Tetratriacontane (C34)	19.165	5059593	46.973 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	4533198	47.188 ug/ml
21) T	n-Octatriacontane (C38)	20.614	4246406	47.073 ug/ml
22) T	n-Tetracontane (C40)	21.465	4122486	47.570 ug/ml

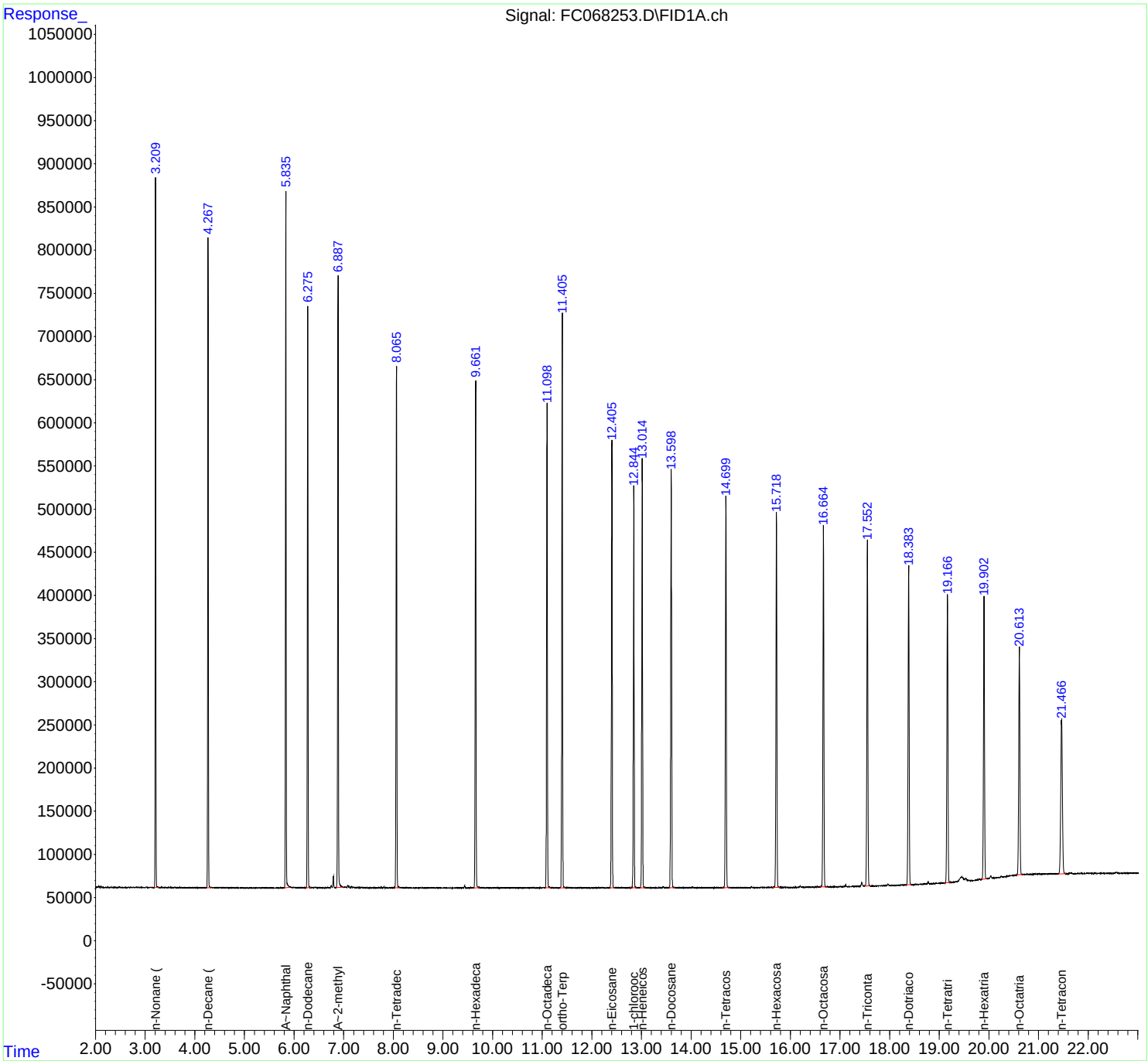
(f)=RT Delta > 1/2 Window (m)=manual int.

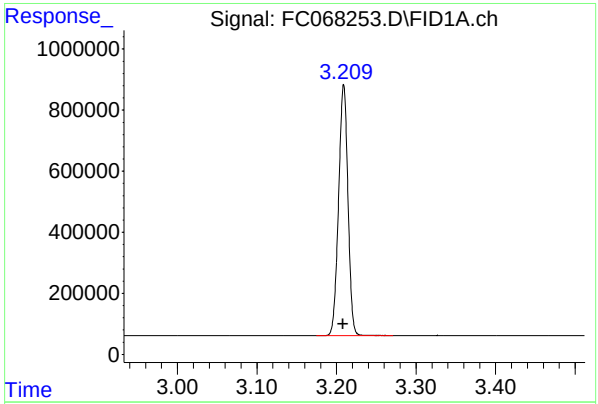
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

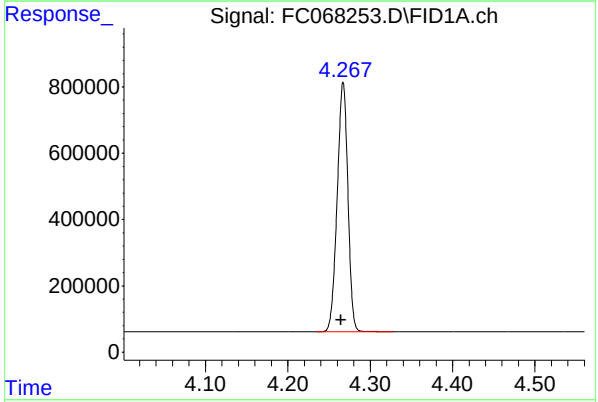




#1 n-Nonane (C9)

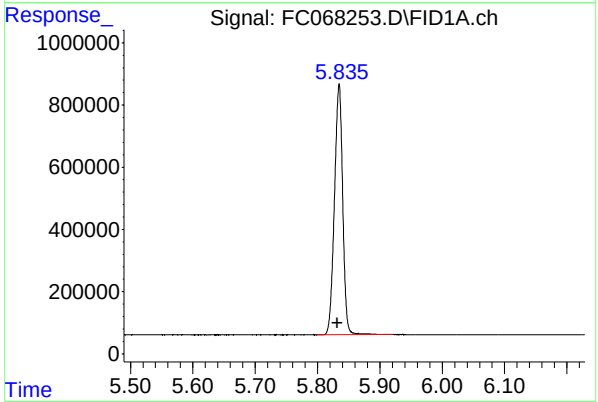
R.T.: 3.209 min
Delta R.T.: 0.000 min
Response: 6719412
Conc: 47.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



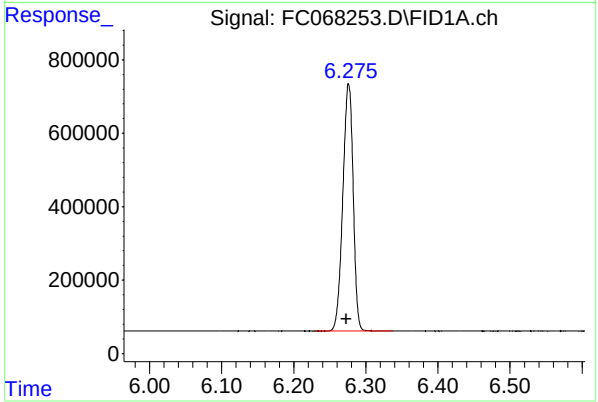
#2 n-Decane (C10)

R.T.: 4.267 min
Delta R.T.: 0.002 min
Response: 6784596
Conc: 47.56 ug/ml



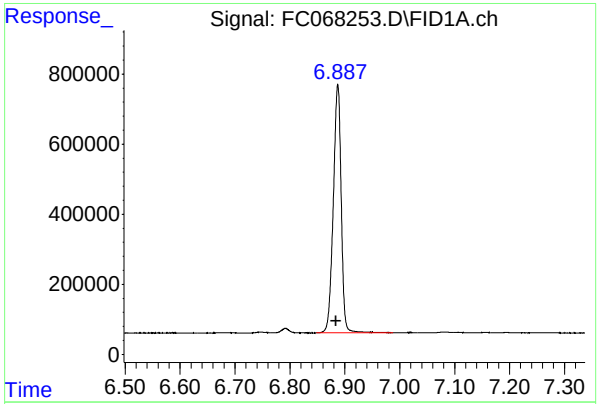
#3 A~Naphthalene (C11.7)

R.T.: 5.834 min
Delta R.T.: 0.003 min
Response: 7434634
Conc: 48.04 ug/ml



#4 n-Dodecane (C12)

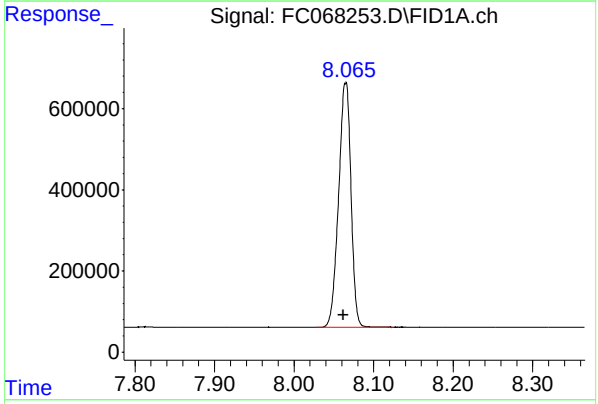
R.T.: 6.276 min
Delta R.T.: 0.003 min
Response: 6736178
Conc: 47.70 ug/ml



#5 A~2-methylnaphthalene (C12.89)

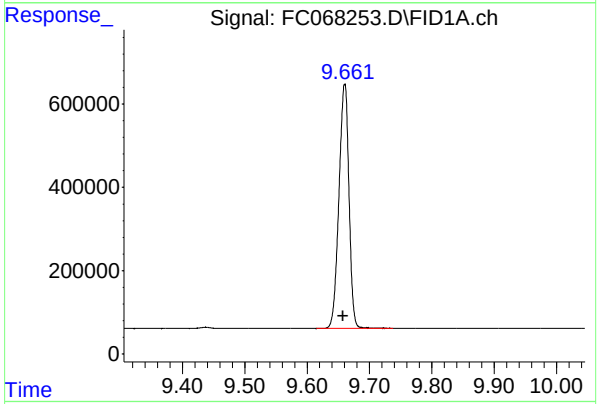
R.T.: 6.887 min
Delta R.T.: 0.003 min
Response: 7096295
Conc: 48.39 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



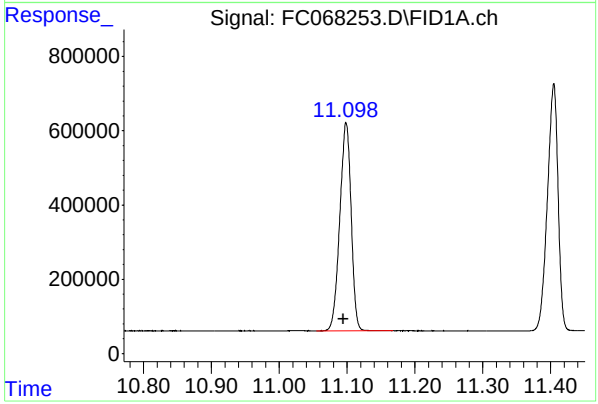
#6 n-Tetradecane (C14)

R.T.: 8.065 min
Delta R.T.: 0.003 min
Response: 6521596
Conc: 47.84 ug/ml



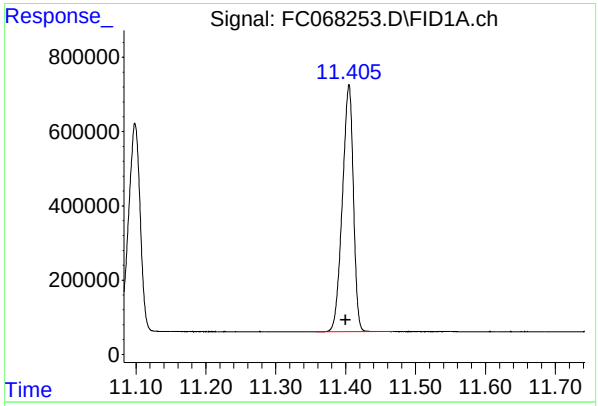
#7 n-Hexadecane (C16)

R.T.: 9.660 min
Delta R.T.: 0.003 min
Response: 6569433
Conc: 47.85 ug/ml



#8 n-Octadecane (C18)

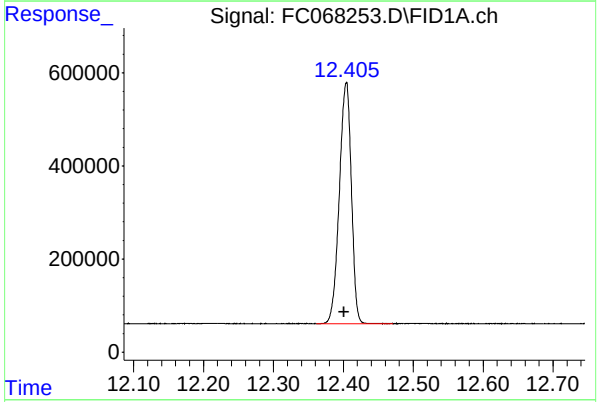
R.T.: 11.099 min
Delta R.T.: 0.004 min
Response: 6516282
Conc: 47.55 ug/ml



#9 ortho-Terphenyl (SURR)

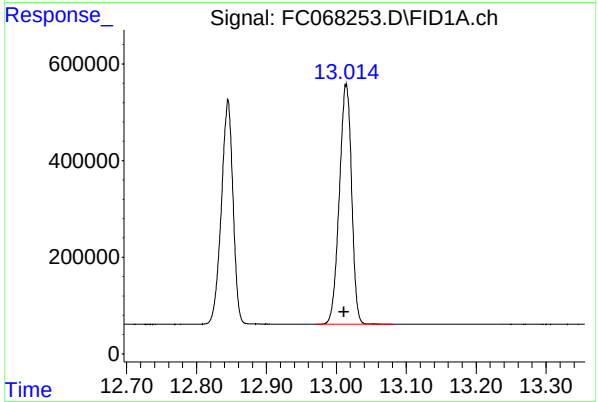
R.T.: 11.404 min
Delta R.T.: 0.005 min
Response: 7265657
Conc: 47.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



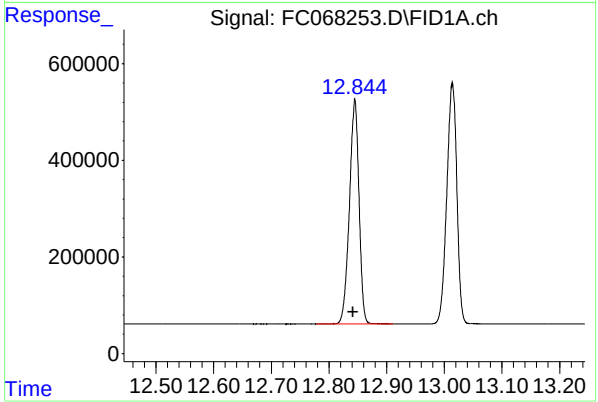
#10 n-Eicosane (C20)

R.T.: 12.404 min
Delta R.T.: 0.003 min
Response: 6182901
Conc: 47.36 ug/ml



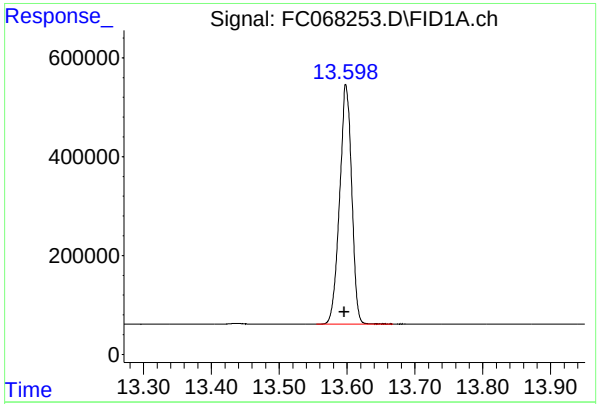
#11 n-Heneicosane (C21)

R.T.: 13.014 min
Delta R.T.: 0.003 min
Response: 6051938
Conc: 47.35 ug/ml



#12 1-chlorooctadecane (SURR)

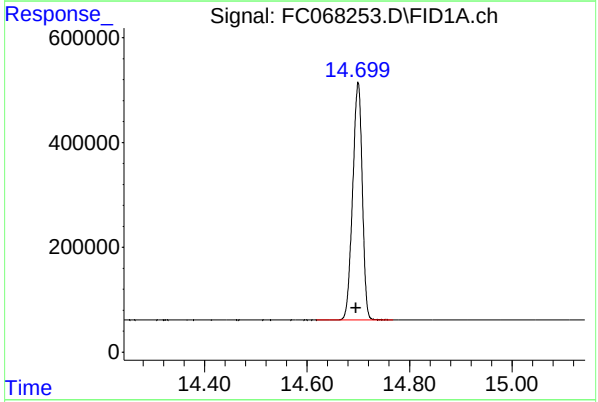
R.T.: 12.845 min
Delta R.T.: 0.003 min
Response: 5379642
Conc: 47.63 ug/ml



#13 n-Docosane (C22)

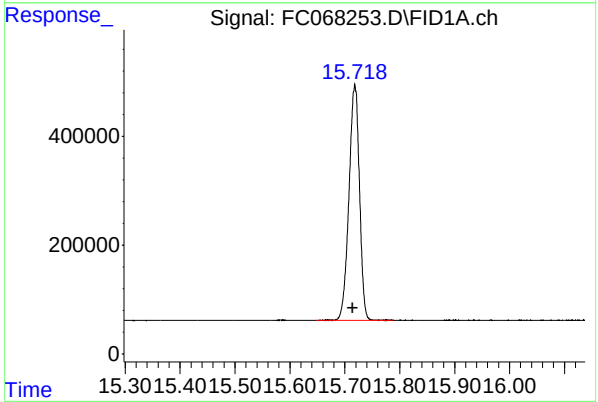
R.T.: 13.599 min
Delta R.T.: 0.003 min
Response: 5978682
Conc: 47.36 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



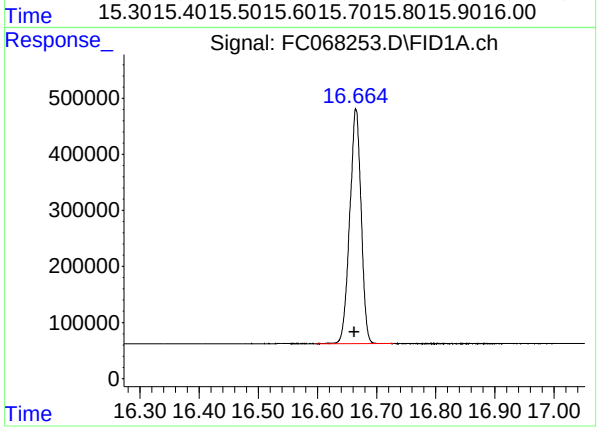
#14 n-Tetracosane (C24)

R.T.: 14.700 min
Delta R.T.: 0.004 min
Response: 5893630
Conc: 47.33 ug/ml



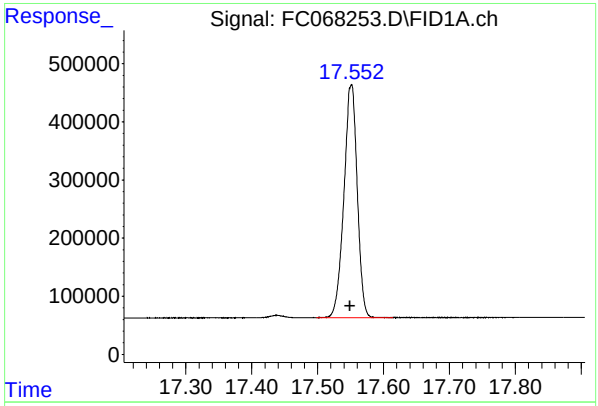
#15 n-Hexacosane (C26)

R.T.: 15.718 min
Delta R.T.: 0.004 min
Response: 5756725
Conc: 47.22 ug/ml



#16 n-Octacosane (C28)

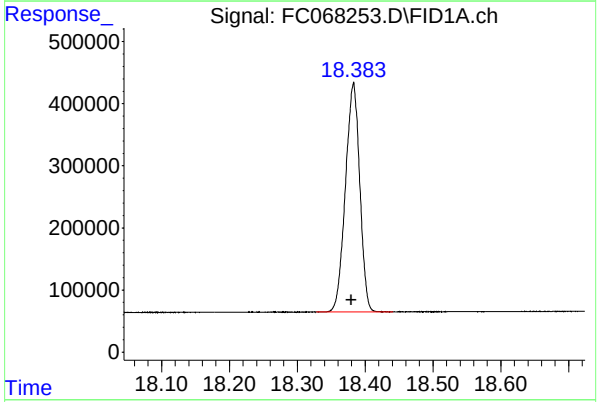
R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 5605157
Conc: 47.07 ug/ml



#17 n-Tricontane (C30)

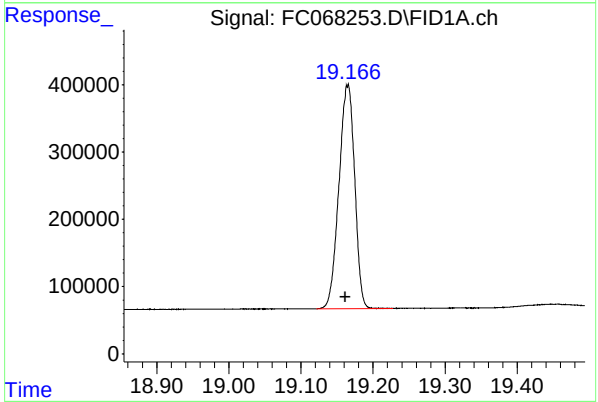
R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 5630196
Conc: 46.92 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



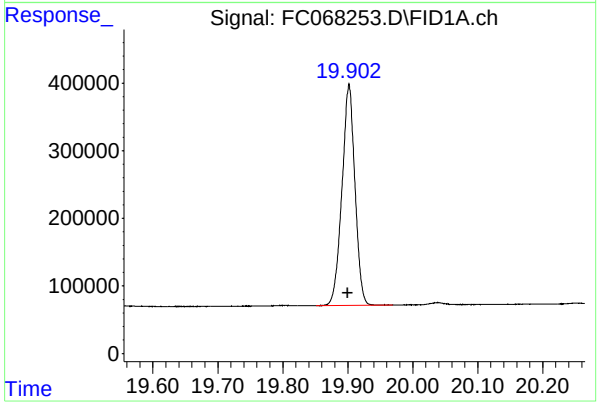
#18 n-Dotriacontane (C32)

R.T.: 18.383 min
Delta R.T.: 0.003 min
Response: 5417986
Conc: 46.88 ug/ml



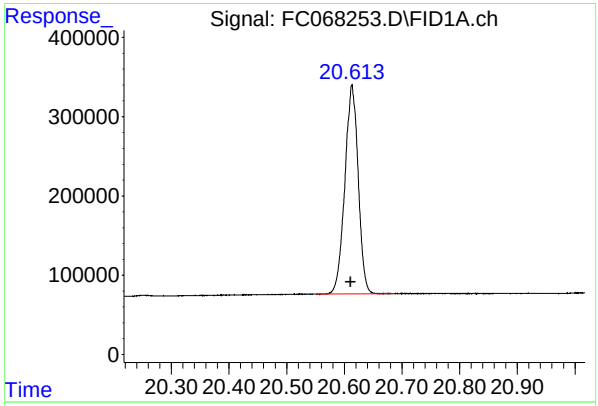
#19 n-Tetratriacontane (C34)

R.T.: 19.165 min
Delta R.T.: 0.004 min
Response: 5059593
Conc: 46.97 ug/ml



#20 n-Hexatriacontane (C36)

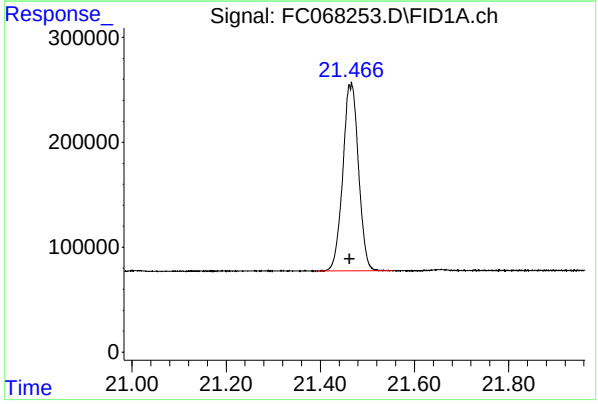
R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 4533198
Conc: 47.19 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.614 min
Delta R.T.: 0.003 min
Response: 4246406
Conc: 47.07 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.465 min
Delta R.T.: 0.002 min
Response: 4122486
Conc: 47.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.209	3.174	3.271	BB	811218	6719412	90.38%	5.110%
2	4.267	4.234	4.328	BB	755911	6784596	91.26%	5.159%
3	5.834	5.798	5.921	BB	804975	7434634	100.00%	5.654%
4	6.276	6.231	6.338	BB	678512	6736178	90.61%	5.122%
5	6.887	6.848	6.988	BB	711876	7096295	95.45%	5.396%
6	8.065	8.028	8.124	BB	605991	6521596	87.72%	4.959%
7	9.660	9.614	9.738	BB	593828	6569433	88.36%	4.996%
8	11.099	11.054	11.168	BB	559745	6516282	87.65%	4.955%
9	11.404	11.358	11.468	BB	664804	7265657	97.73%	5.525%
10	12.404	12.361	12.471	BB	520586	6182901	83.16%	4.702%
11	12.845	12.778	12.911	BB	460356	5379642	72.36%	4.091%
12	13.014	12.971	13.081	BB	497432	6051938	81.40%	4.602%
13	13.599	13.554	13.668	BB	486709	5978682	80.42%	4.546%
14	14.700	14.618	14.768	BB	455435	5893630	79.27%	4.482%
15	15.718	15.648	15.788	BB	431622	5756725	77.43%	4.378%
16	16.665	16.598	16.728	BB	419236	5605157	75.39%	4.262%
17	17.551	17.498	17.614	BB	400816	5630196	75.73%	4.281%
18	18.383	18.328	18.441	BB	366233	5417986	72.87%	4.120%
19	19.165	19.121	19.228	BB	333071	5059593	68.05%	3.848%
20	19.902	19.851	19.969	BBA	324588	4533198	60.97%	3.447%
21	20.614	20.551	20.684	BB	260933	4246406	57.12%	3.229%
22	21.465	21.391	21.554	BB	175049	4122486	55.45%	3.135%
			Sum of corrected areas:			131502620		

Aliphatic EPH 021125.M Tue Feb 11 02:39:29 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.400	3070458	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	12.842	2258872	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	2833506	20.000 ug/ml
2) T	n-Decane (C10)	4.265	2853357	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	5.831	3094970	20.000 ug/ml
4) T	n-Dodecane (C12)	6.273	2824656	20.000 ug/ml
5) T	A~2-methylnaphthalene...	6.884	2932900	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.062	2726217	20.000 ug/ml
7) T	n-Hexadecane (C16)	9.657	2745870	20.000 ug/ml
8) T	n-Octadecane (C18)	11.095	2740539	20.000 ug/ml
10) T	n-Eicosane (C20)	12.401	2610929	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.011	2556207	20.000 ug/ml
13) T	n-Docosane (C22)	13.596	2524938	20.000 ug/ml
14) T	n-Tetracosane (C24)	14.696	2490472	20.000 ug/ml
15) T	n-Hexacosane (C26)	15.714	2438036	20.000 ug/ml
16) T	n-Octacosane (C28)	16.662	2381498	20.000 ug/ml
17) T	n-Tricontane (C30)	17.549	2400071	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.380	2311459	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.161	2154239	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	19.900	1921336	20.000 ug/ml
21) T	n-Octatriacontane (C38)	20.611	1804172	20.000 ug/ml
22) T	n-Tetracontane (C40)	21.463	1733236	20.000 ug/ml

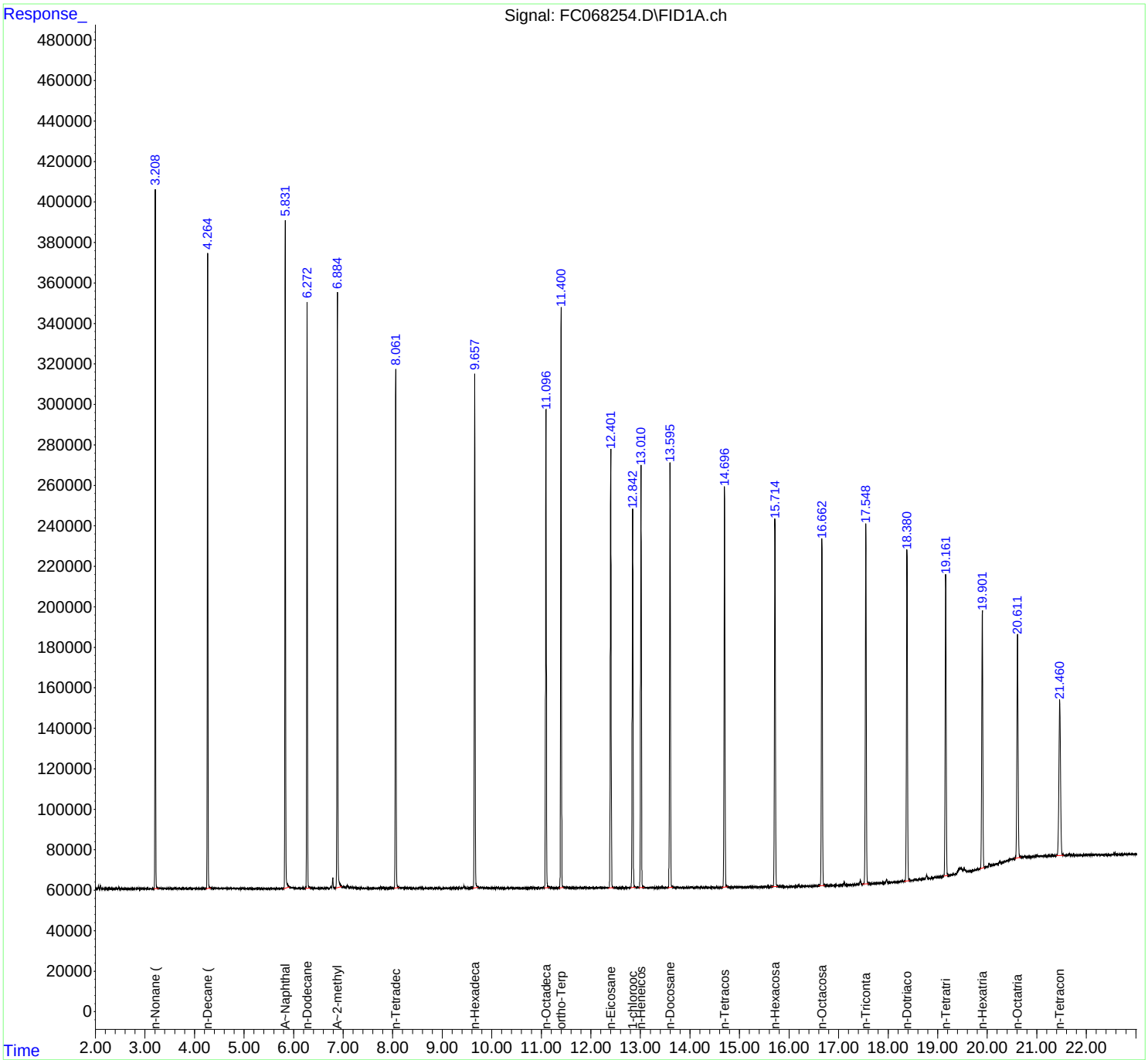
(f)=RT Delta > 1/2 Window (m)=manual int.

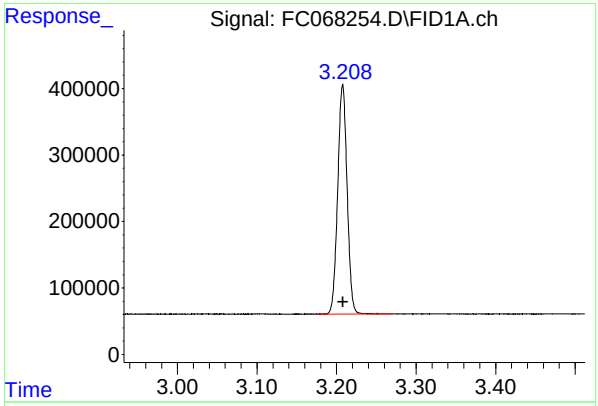
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

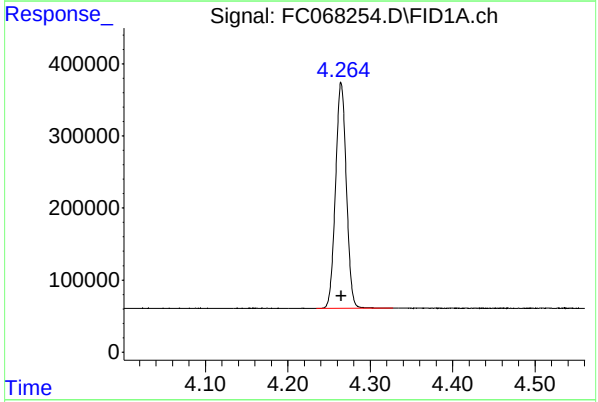




#1 n-Nonane (C9)

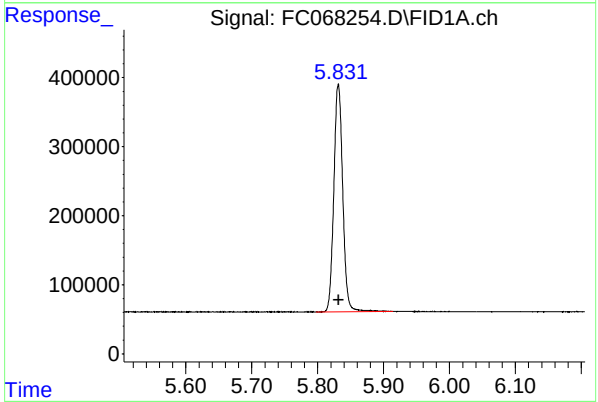
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 2833506
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



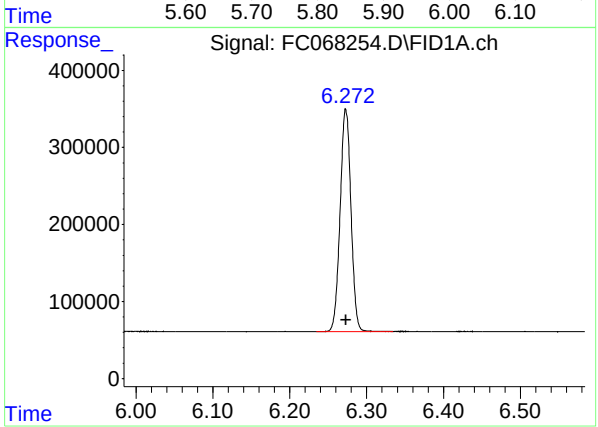
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2853357
Conc: 20.00 ug/ml



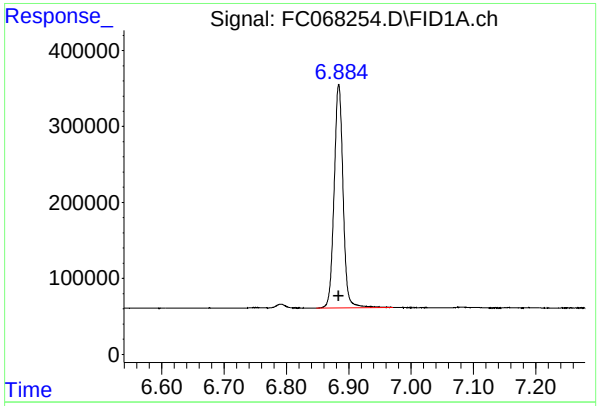
#3 A~Naphthalene (C11.7)

R.T.: 5.831 min
Delta R.T.: 0.000 min
Response: 3094970
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

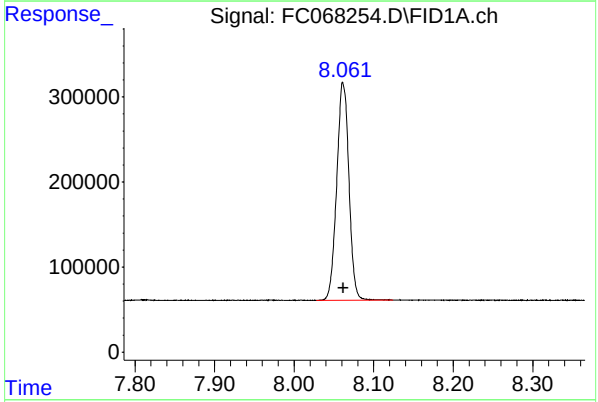
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 2824656
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

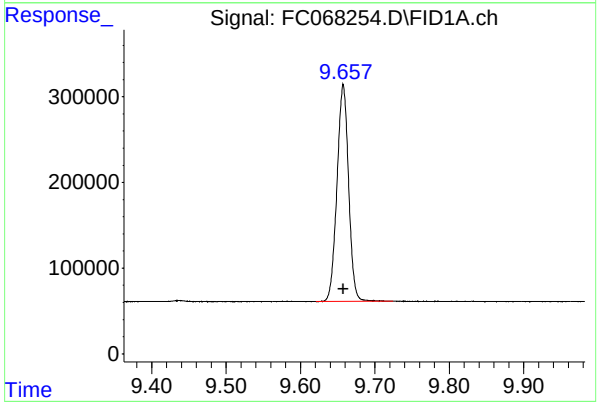
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2932900
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



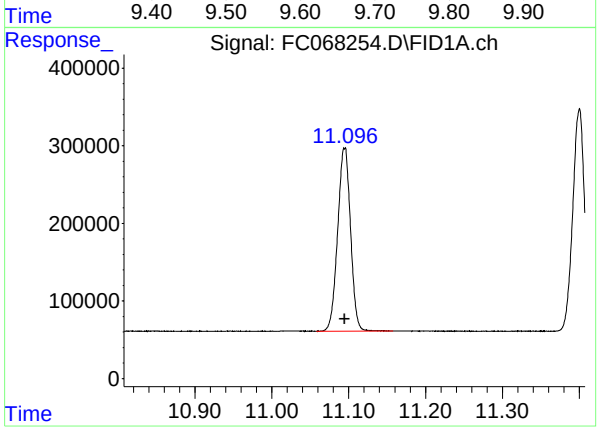
#6 n-Tetradecane (C14)

R.T.: 8.062 min
Delta R.T.: 0.000 min
Response: 2726217
Conc: 20.00 ug/ml



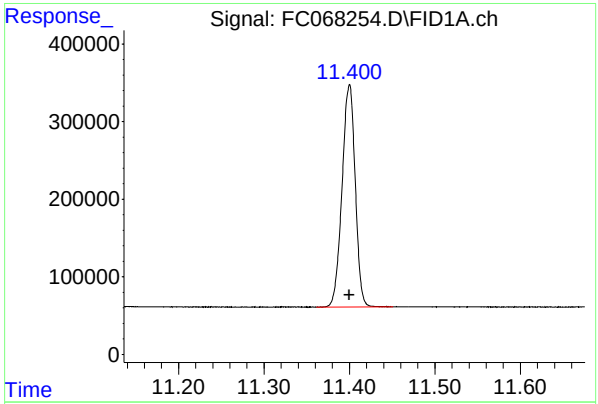
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2745870
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

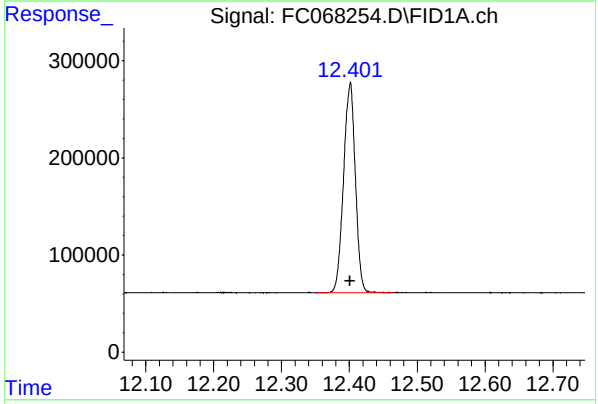
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2740539
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

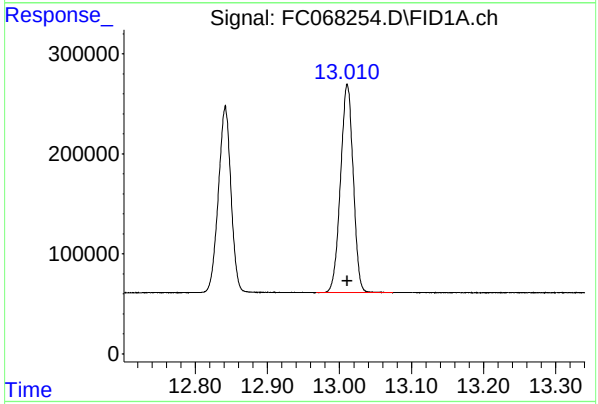
R.T.: 11.400 min
Delta R.T.: 0.000 min
Response: 3070458
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



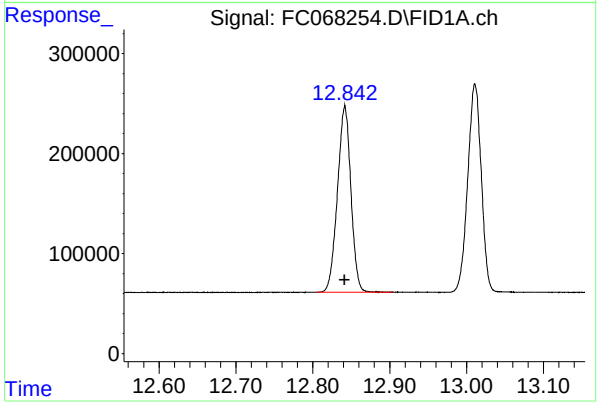
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2610929
Conc: 20.00 ug/ml



#11 n-Heneicosane (C21)

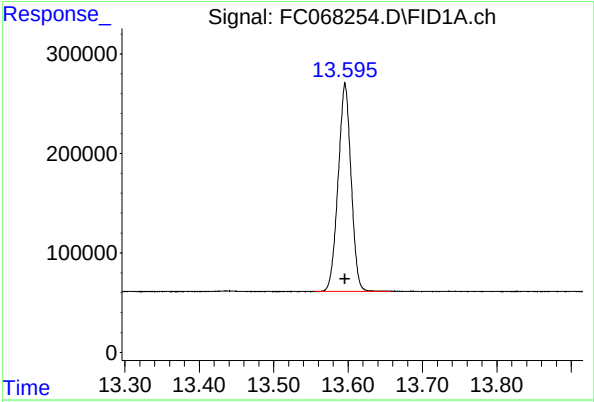
R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2556207
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

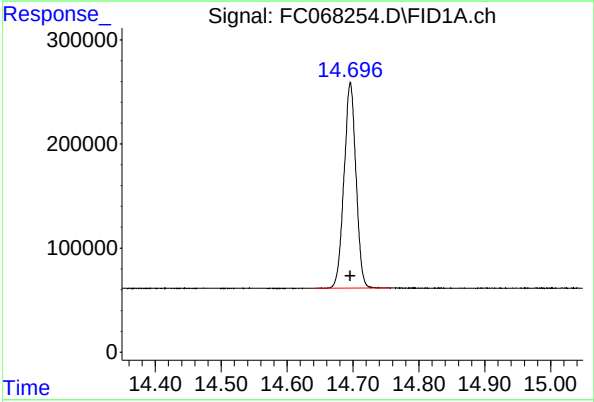
R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 2258872
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



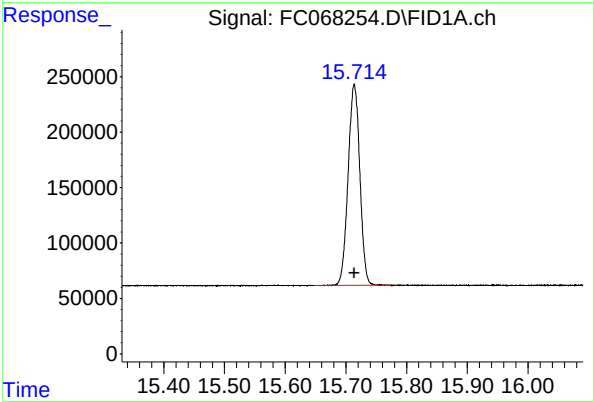
#13 n-Docosane (C22)

R.T.: 13.596 min
Delta R.T.: 0.000 min
Response: 2524938
Conc: 20.00 ug/ml



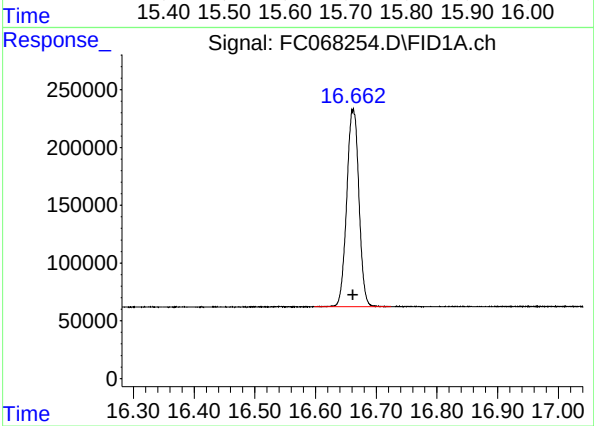
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2490472
Conc: 20.00 ug/ml



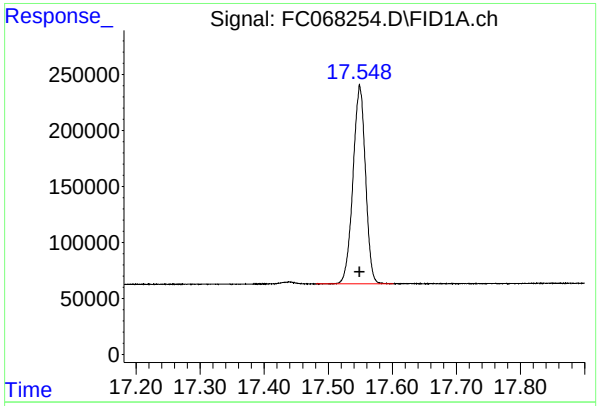
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2438036
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

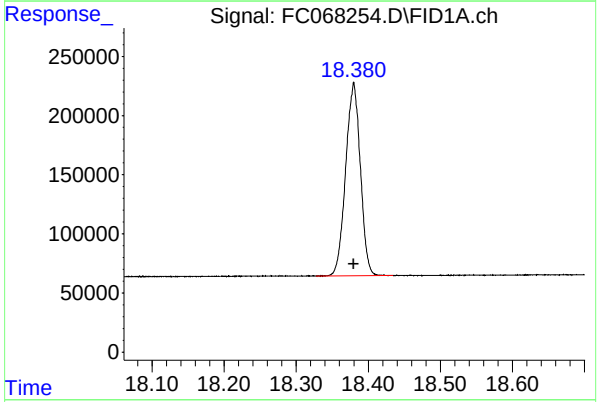
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2381498
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

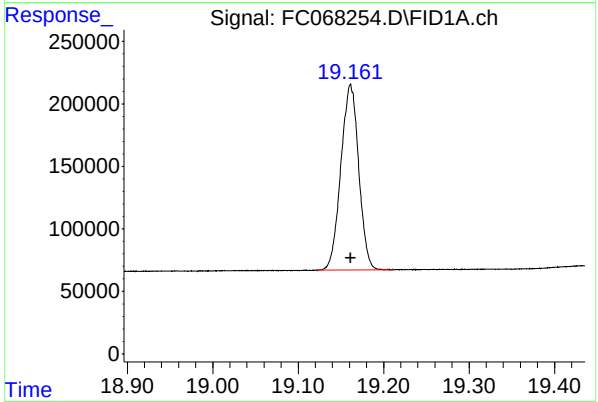
R.T.: 17.549 min
Delta R.T.: 0.000 min
Response: 2400071
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



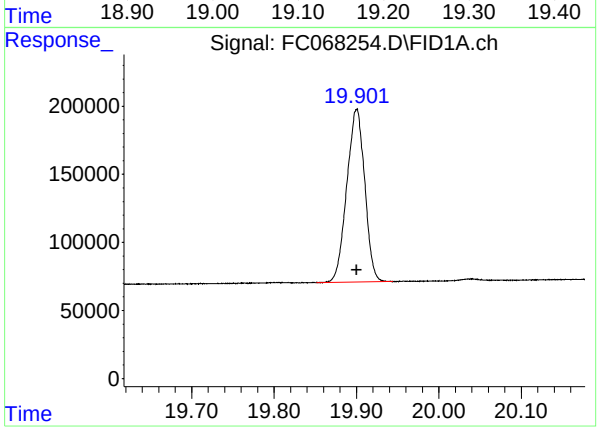
#18 n-Dotriacontane (C32)

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 2311459
Conc: 20.00 ug/ml



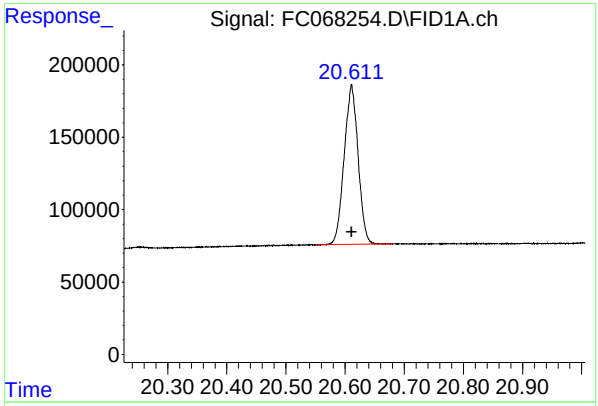
#19 n-Tetratriacontane (C34)

R.T.: 19.161 min
Delta R.T.: 0.000 min
Response: 2154239
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

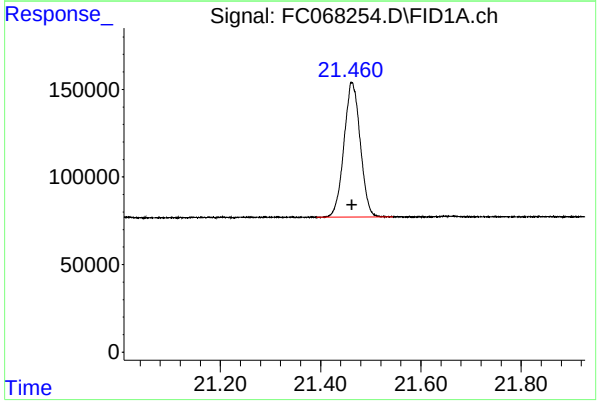
R.T.: 19.900 min
Delta R.T.: 0.000 min
Response: 1921336
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 1804172
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.463 min
Delta R.T.: 0.000 min
Response: 1733236
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.174	3.271	BB	344103	2833506	91.55%	5.114%
2	4.265	4.234	4.328	BB	312569	2853357	92.19%	5.150%
3	5.831	5.798	5.914	BB	329933	3094970	100.00%	5.586%
4	6.273	6.234	6.334	BB	287834	2824656	91.27%	5.098%
5	6.884	6.848	6.971	BB	294443	2932900	94.76%	5.293%
6	8.062	8.028	8.124	BB	257216	2726217	88.09%	4.920%
7	9.657	9.621	9.724	BB	252359	2745870	88.72%	4.956%
8	11.095	11.058	11.158	BB	236897	2740539	88.55%	4.946%
9	11.400	11.361	11.451	BB	288971	3070458	99.21%	5.542%
10	12.401	12.351	12.464	BB	215019	2610929	84.36%	4.712%
11	12.842	12.804	12.904	BB	185197	2258872	72.99%	4.077%
12	13.011	12.968	13.074	BB	208305	2556207	82.59%	4.613%
13	13.596	13.554	13.658	BB	206427	2524938	81.58%	4.557%
14	14.696	14.641	14.758	BB	197006	2490472	80.47%	4.495%
15	15.714	15.648	15.774	BB	180907	2438036	78.77%	4.400%
16	16.662	16.598	16.724	BB	171177	2381498	76.95%	4.298%
17	17.549	17.481	17.601	BB	174807	2400071	77.55%	4.332%
18	18.380	18.328	18.434	BB	162329	2311459	74.68%	4.172%
19	19.161	19.121	19.211	BB	148420	2154239	69.60%	3.888%
20	19.900	19.851	19.944	BB	127484	1921336	62.08%	3.468%
21	20.611	20.551	20.681	BB	109957	1804172	58.29%	3.256%
22	21.463	21.391	21.544	BB	77234	1733236	56.00%	3.128%
			Sum of corrected areas:			55407934		

Aliphatic EPH 021125.M Tue Feb 11 02:39:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.398	1614436	10.516 ug/ml
Spiked Amount	50.000		Recovery =	21.03%
12) S	1-chlorooctadecane (S...	12.840	1174811	10.402 ug/ml
Spiked Amount	50.000		Recovery =	20.80%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	1490390	10.520 ug/ml
2) T	n-Decane (C10)	4.265	1497516	10.497 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	1604467	10.368 ug/ml
4) T	n-Dodecane (C12)	6.273	1486768	10.527 ug/ml
5) T	A~2-methylnaphthalene...	6.884	1503396	10.252 ug/ml
6) T	n-Tetradecane (C14)	8.061	1434684	10.525 ug/ml
7) T	n-Hexadecane (C16)	9.656	1432035	10.430 ug/ml
8) T	n-Octadecane (C18)	11.093	1433269	10.460 ug/ml
10) T	n-Eicosane (C20)	12.400	1367303	10.474 ug/ml
11) T	n-Heneicosane (C21)	13.010	1344009	10.516 ug/ml
13) T	n-Docosane (C22)	13.595	1321567	10.468 ug/ml
14) T	n-Tetracosane (C24)	14.695	1302068	10.456 ug/ml
15) T	n-Hexacosane (C26)	15.714	1273525	10.447 ug/ml
16) T	n-Octacosane (C28)	16.661	1247372	10.476 ug/ml
17) T	n-Tricontane (C30)	17.547	1280217	10.668 ug/ml
18) T	n-Dotriacontane (C32)	18.378	1224121	10.592 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	1138846	10.573 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1016654	10.583 ug/ml
21) T	n-Octatriacontane (C38)	20.611	943380	10.458 ug/ml
22) T	n-Tetracontane (C40)	21.461	910849	10.510 ug/ml

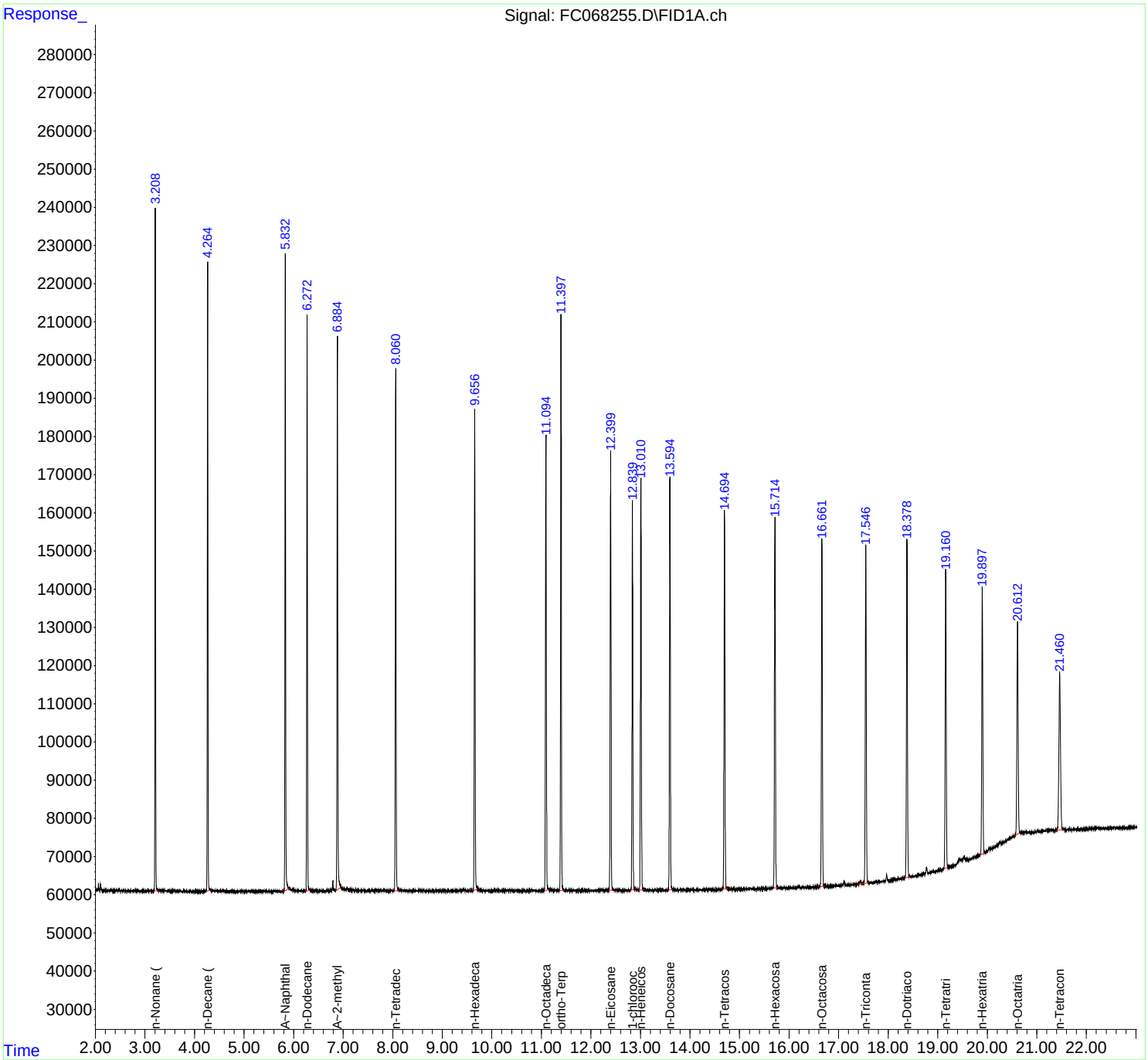
(f)=RT Delta > 1/2 Window (m)=manual int.

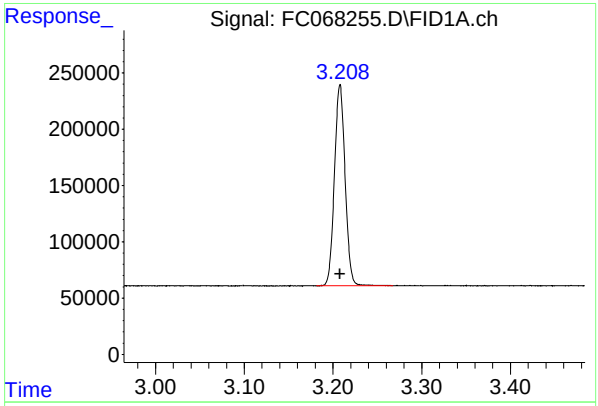
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

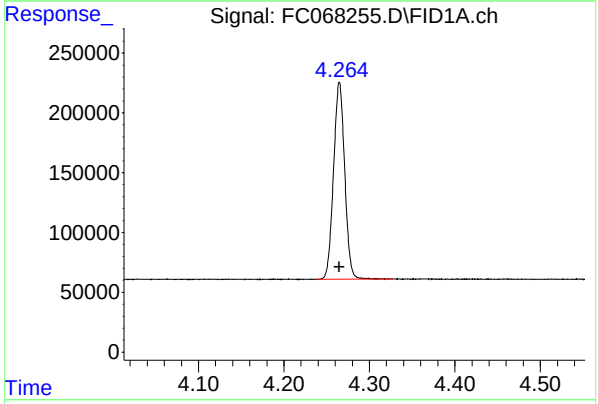




#1 n-Nonane (C9)

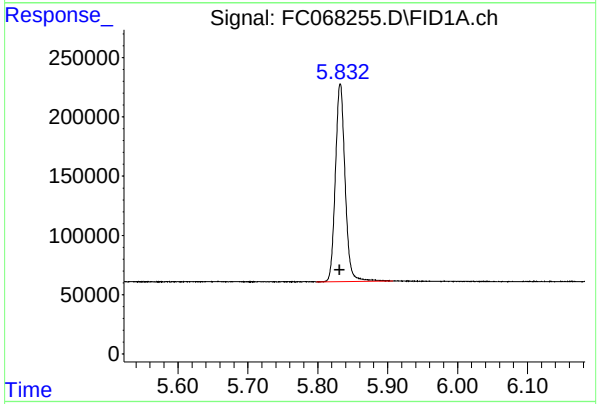
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 1490390
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



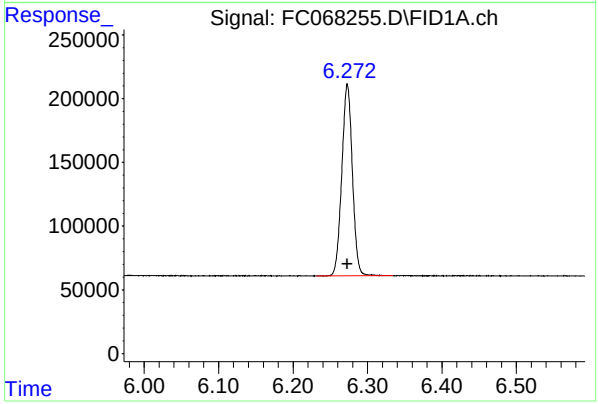
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1497516
Conc: 10.50 ug/ml



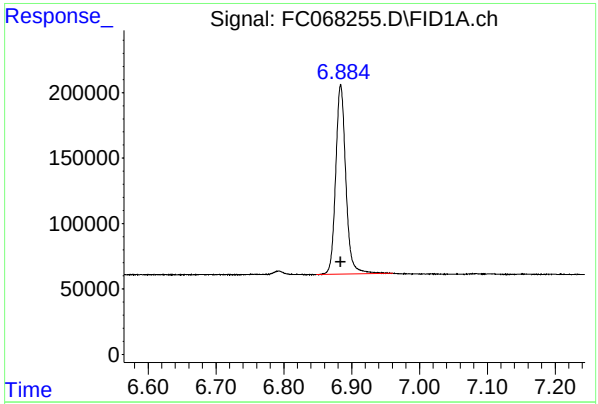
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 1604467
Conc: 10.37 ug/ml



#4 n-Dodecane (C12)

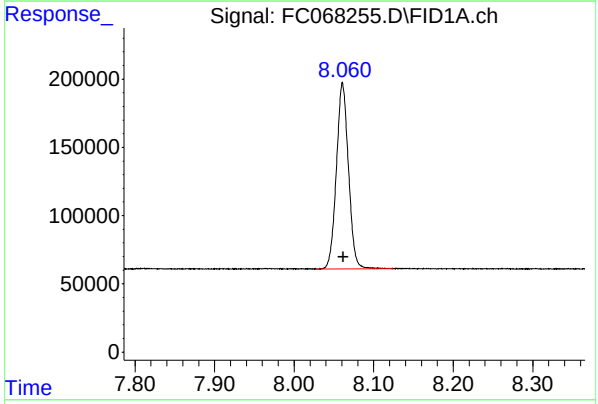
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 1486768
Conc: 10.53 ug/ml



#5 A~2-methylnaphthalene (C12.89)

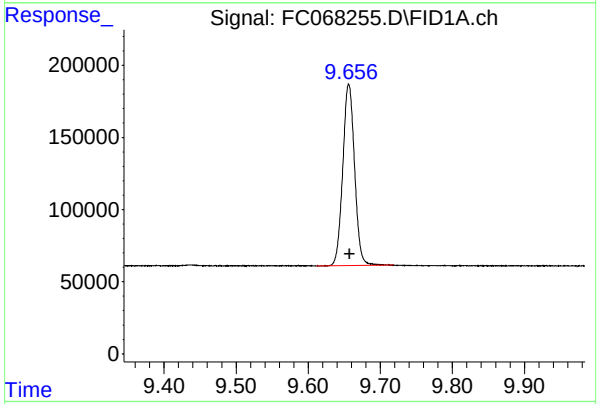
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 1503396
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



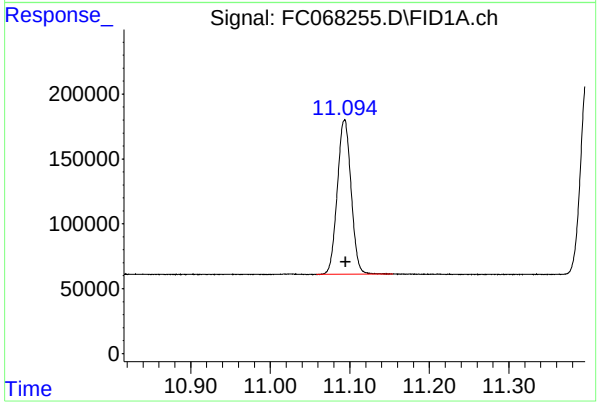
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 1434684
Conc: 10.53 ug/ml



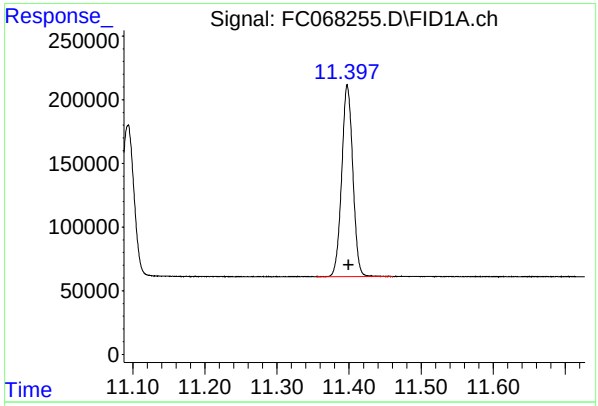
#7 n-Hexadecane (C16)

R.T.: 9.656 min
Delta R.T.: 0.000 min
Response: 1432035
Conc: 10.43 ug/ml



#8 n-Octadecane (C18)

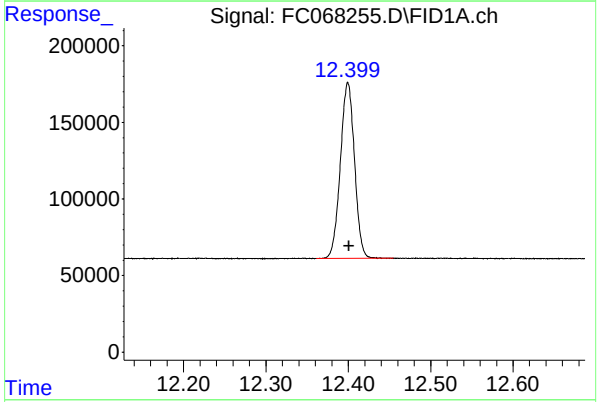
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 1433269
Conc: 10.46 ug/ml



#9 ortho-Terphenyl (SURR)

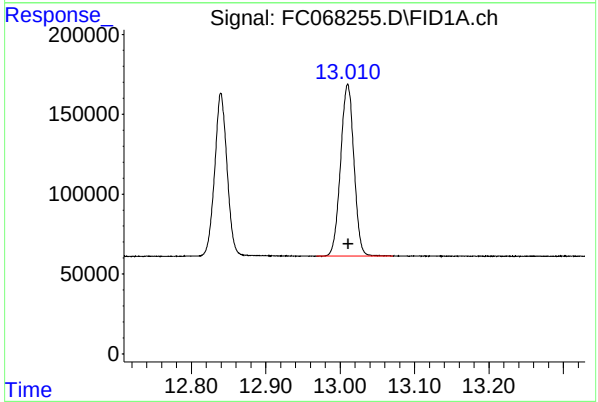
R.T.: 11.398 min
Delta R.T.: -0.002 min
Response: 1614436
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



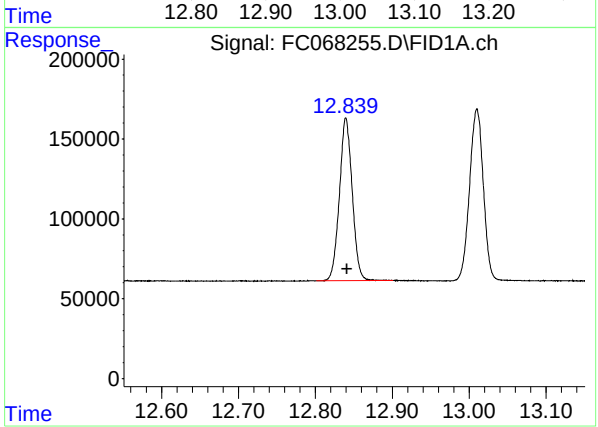
#10 n-Eicosane (C20)

R.T.: 12.400 min
Delta R.T.: -0.001 min
Response: 1367303
Conc: 10.47 ug/ml



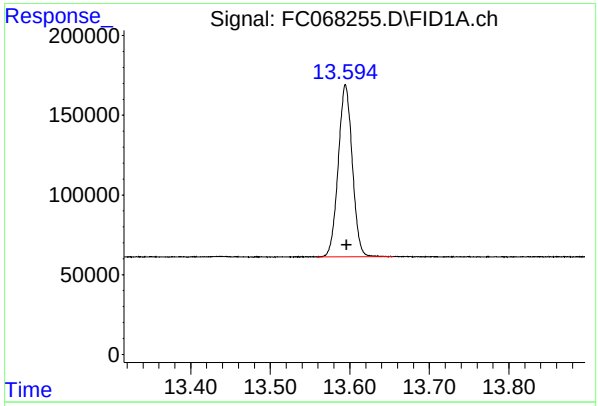
#11 n-Heneicosane (C21)

R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 1344009
Conc: 10.52 ug/ml



#12 1-chlorooctadecane (SURR)

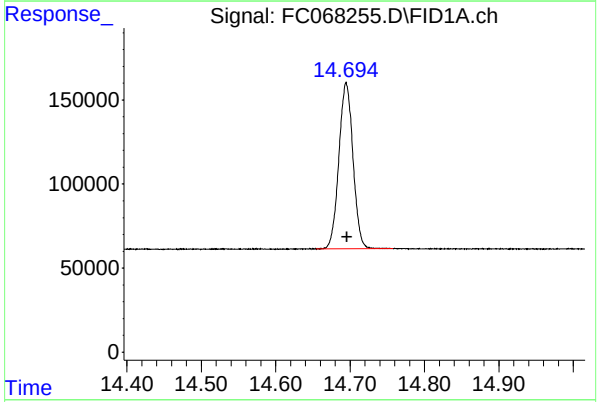
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 1174811
Conc: 10.40 ug/ml



#13 n-Docosane (C22)

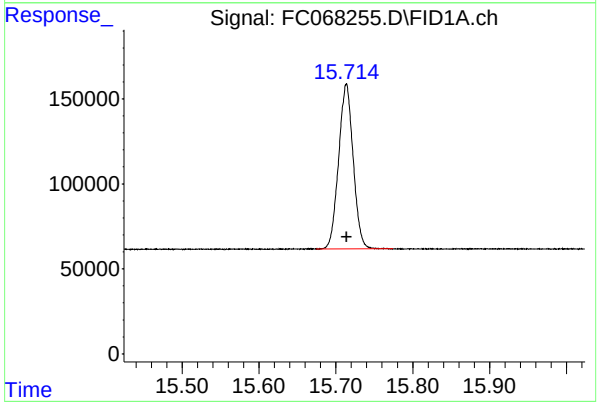
R.T.: 13.595 min
Delta R.T.: -0.001 min
Response: 1321567
Conc: 10.47 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



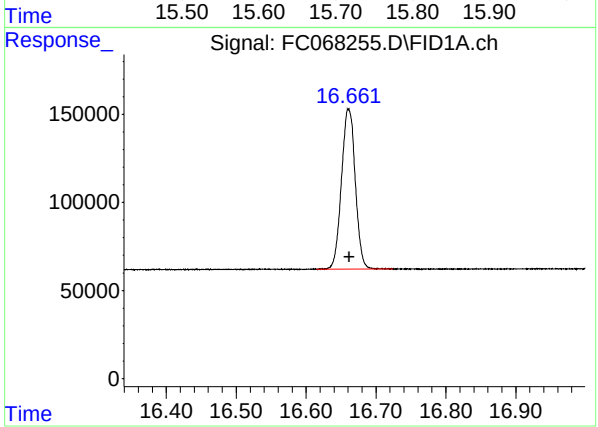
#14 n-Tetracosane (C24)

R.T.: 14.695 min
Delta R.T.: -0.001 min
Response: 1302068
Conc: 10.46 ug/ml



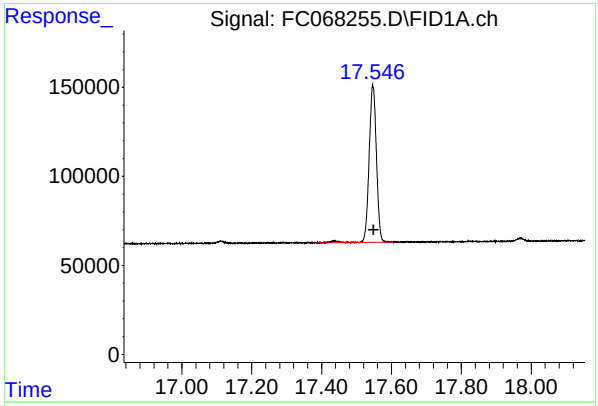
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 1273525
Conc: 10.45 ug/ml



#16 n-Octacosane (C28)

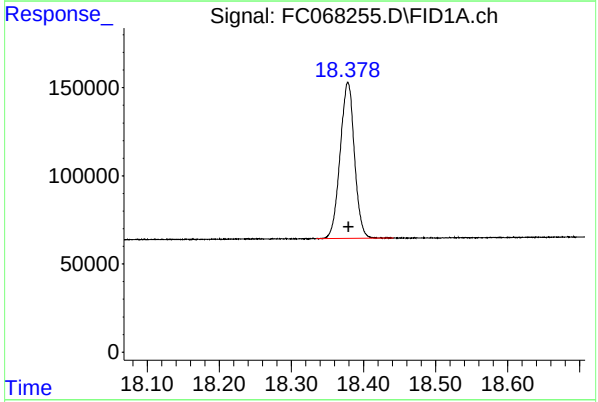
R.T.: 16.661 min
Delta R.T.: -0.001 min
Response: 1247372
Conc: 10.48 ug/ml



#17 n-Tricontane (C30)

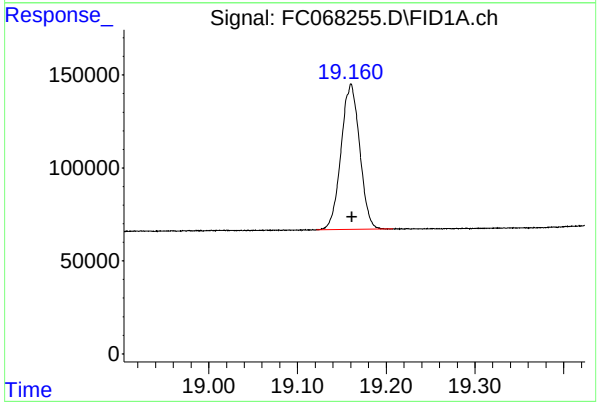
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 1280217
Conc: 10.67 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



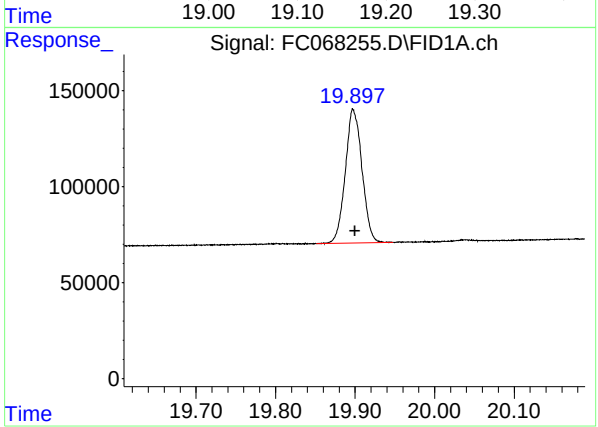
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.001 min
Response: 1224121
Conc: 10.59 ug/ml



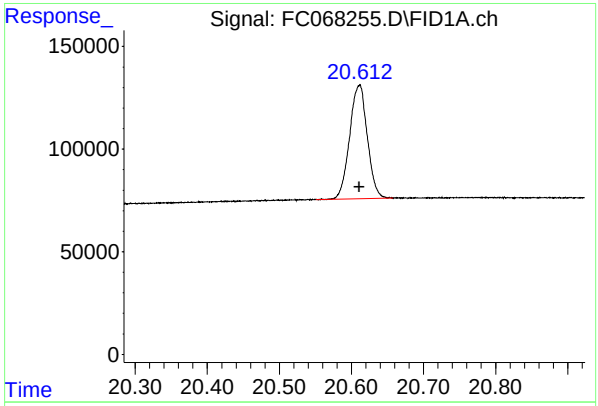
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: -0.001 min
Response: 1138846
Conc: 10.57 ug/ml



#20 n-Hexatriacontane (C36)

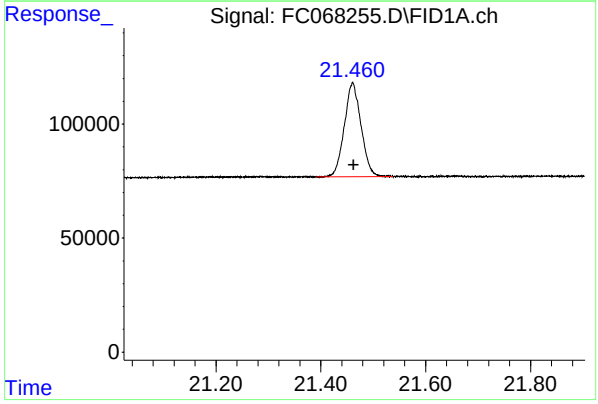
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1016654
Conc: 10.58 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 943380
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.461 min
Delta R.T.: -0.002 min
Response: 910849
Conc: 10.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.181	3.268	BB	177887	1490390	92.32%	5.132%
2	4.265	4.238	4.328	BB	163966	1497516	92.76%	5.156%
3	5.832	5.798	5.908	BB	166500	1604467	99.38%	5.525%
4	6.273	6.231	6.334	BB	149363	1486768	92.09%	5.119%
5	6.884	6.848	6.961	BB	144374	1503396	93.12%	5.177%
6	8.061	8.028	8.124	BB	135629	1434684	88.87%	4.940%
7	9.656	9.611	9.718	BB	125467	1432035	88.70%	4.931%
8	11.093	11.058	11.154	BB	119437	1433269	88.78%	4.935%
9	11.398	11.354	11.461	BB	150022	1614436	100.00%	5.559%
10	12.400	12.361	12.454	BB	114828	1367303	84.69%	4.708%
11	12.840	12.801	12.901	BB	100668	1174811	72.77%	4.045%
12	13.010	12.968	13.071	BB	107522	1344009	83.25%	4.628%
13	13.595	13.558	13.654	BB	107806	1321567	81.86%	4.551%
14	14.695	14.654	14.758	BB	98638	1302068	80.65%	4.483%
15	15.714	15.674	15.774	BB	97396	1273525	78.88%	4.385%
16	16.661	16.614	16.724	BB	90943	1247372	77.26%	4.295%
17	17.547	17.384	17.604	BB	87801	1280217	79.30%	4.408%
18	18.378	18.334	18.441	BB	88680	1224121	75.82%	4.215%
19	19.160	19.121	19.208	BB	78237	1138846	70.54%	3.921%
20	19.898	19.851	19.948	BB	69453	1016654	62.97%	3.501%
21	20.611	20.551	20.658	BB	55376	943380	58.43%	3.248%
22	21.461	21.391	21.538	BB	41390	910849	56.42%	3.136%
			Sum of corrected areas:			29041681		

Aliphatic EPH 021125.M Tue Feb 11 02:40:05 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.397	824094	5.368 ug/ml
Spiked Amount	50.000		Recovery =	10.74%
12) S	1-chlorooctadecane (S...	12.840	593786	5.257 ug/ml
Spiked Amount	50.000		Recovery =	10.51%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	739660	5.221 ug/ml
2) T	n-Decane (C10)	4.265	741867	5.200 ug/ml
3) T	A~Naphthalene (C11.7)	5.833	779725	5.039 ug/ml
4) T	n-Dodecane (C12)	6.273	740350	5.242 ug/ml
5) T	A~2-methylnaphthalene...	6.884	729676	4.976 ug/ml
6) T	n-Tetradecane (C14)	8.060	721115	5.290 ug/ml
7) T	n-Hexadecane (C16)	9.655	722933	5.266 ug/ml
8) T	n-Octadecane (C18)	11.093	728153	5.314 ug/ml
10) T	n-Eicosane (C20)	12.398	697130	5.340 ug/ml
11) T	n-Heneicosane (C21)	13.009	687316	5.378 ug/ml
13) T	n-Docosane (C22)	13.594	674382	5.342 ug/ml
14) T	n-Tetracosane (C24)	14.694	667971	5.364 ug/ml
15) T	n-Hexacosane (C26)	15.713	652733	5.355 ug/ml
16) T	n-Octacosane (C28)	16.660	639945	5.374 ug/ml
17) T	n-Tricontane (C30)	17.547	654656	5.455 ug/ml
18) T	n-Dotriacontane (C32)	18.378	639981	5.537 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	592586	5.502 ug/ml
20) T	n-Hexatriacontane (C36)	19.899	518944	5.402 ug/ml
21) T	n-Octatriacontane (C38)	20.609	485383	5.381 ug/ml
22) T	n-Tetracontane (C40)	21.462	459428	5.301 ug/ml

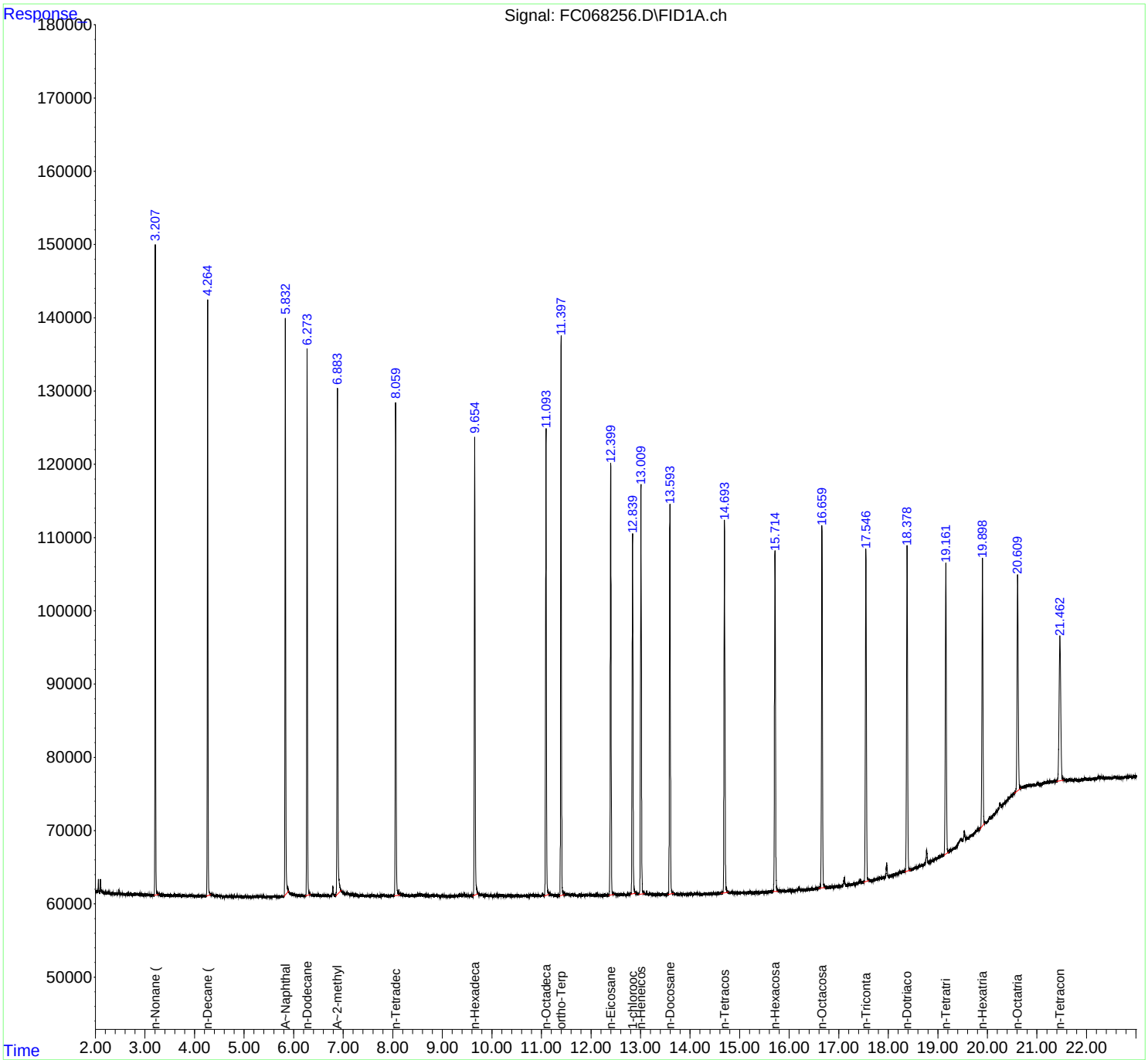
(f)=RT Delta > 1/2 Window (m)=manual int.

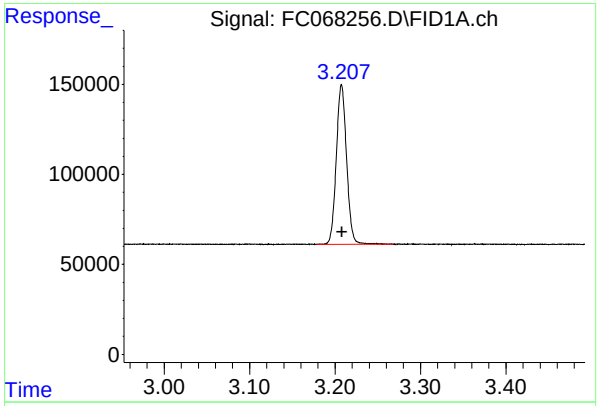
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

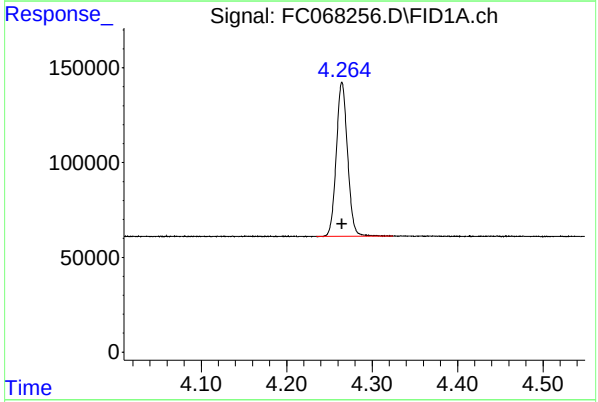




#1 n-Nonane (C9)

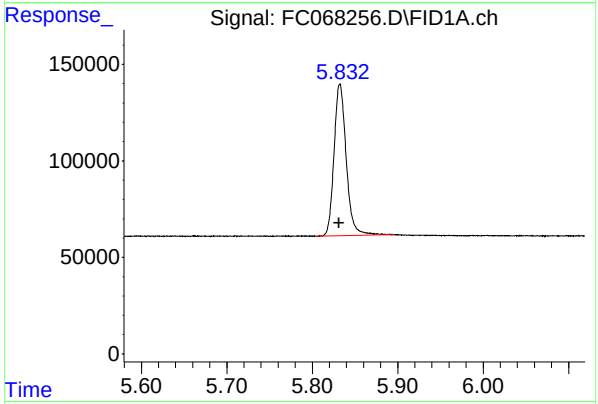
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 739660
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



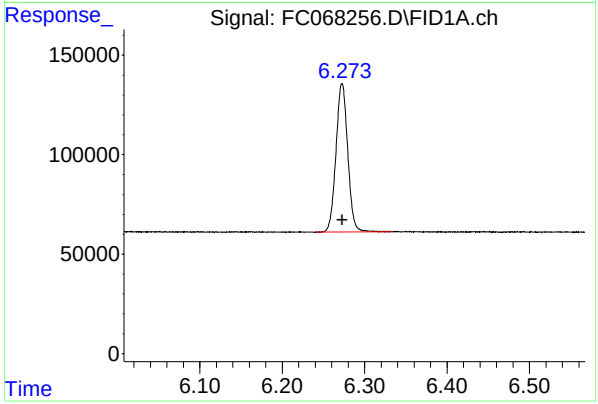
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 741867
Conc: 5.20 ug/ml



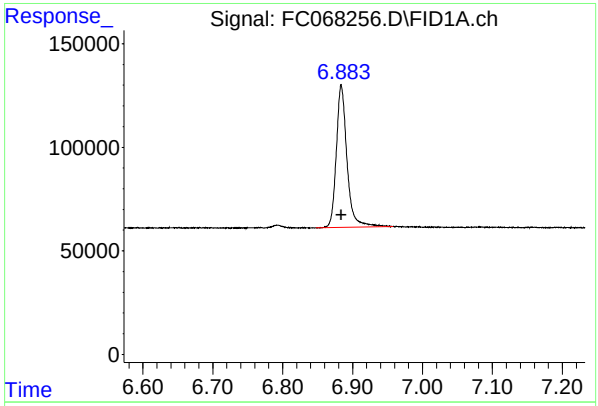
#3 A~Naphthalene (C11.7)

R.T.: 5.833 min
Delta R.T.: 0.001 min
Response: 779725
Conc: 5.04 ug/ml



#4 n-Dodecane (C12)

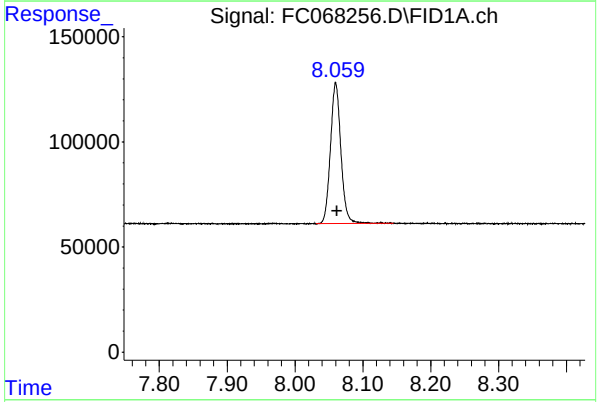
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 740350
Conc: 5.24 ug/ml



#5 A~2-methylnaphthalene (C12.89)

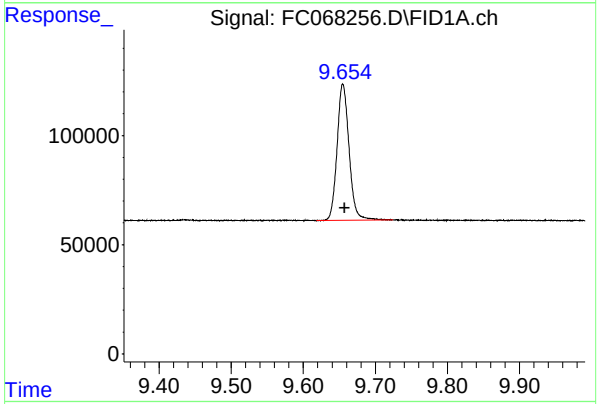
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 729676
Conc: 4.98 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



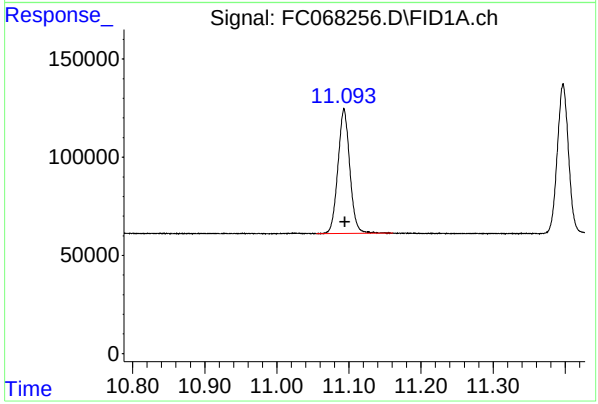
#6 n-Tetradecane (C14)

R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 721115
Conc: 5.29 ug/ml



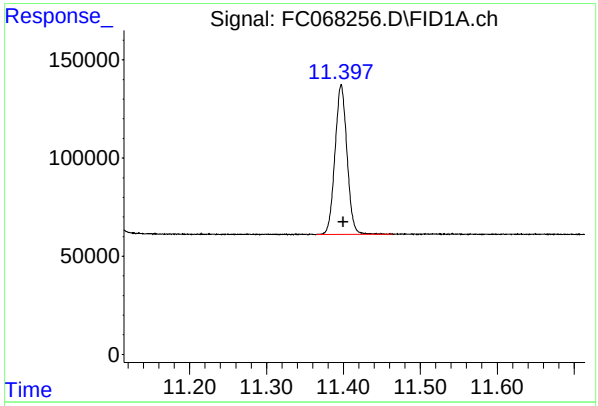
#7 n-Hexadecane (C16)

R.T.: 9.655 min
Delta R.T.: -0.002 min
Response: 722933
Conc: 5.27 ug/ml



#8 n-Octadecane (C18)

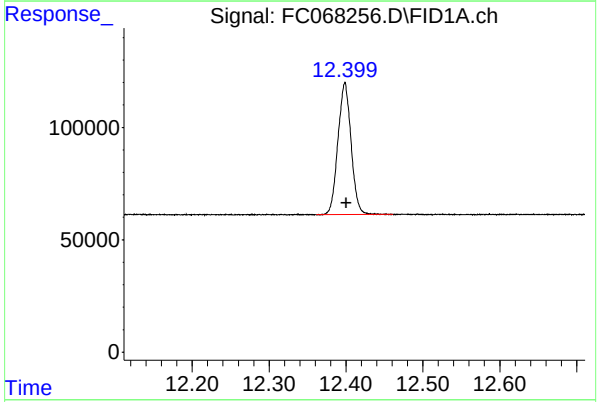
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 728153
Conc: 5.31 ug/ml



#9 ortho-Terphenyl (SURR)

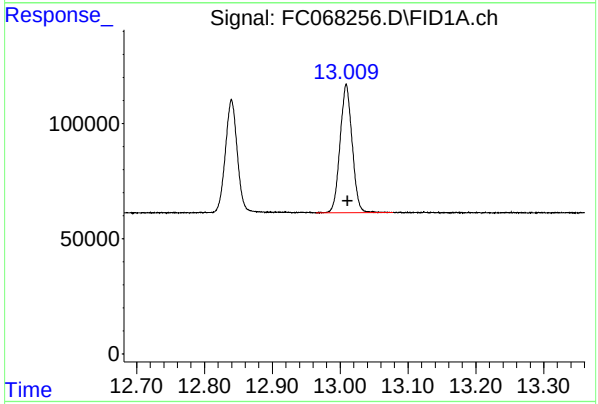
R.T.: 11.397 min
Delta R.T.: -0.003 min
Response: 824094
Conc: 5.37 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



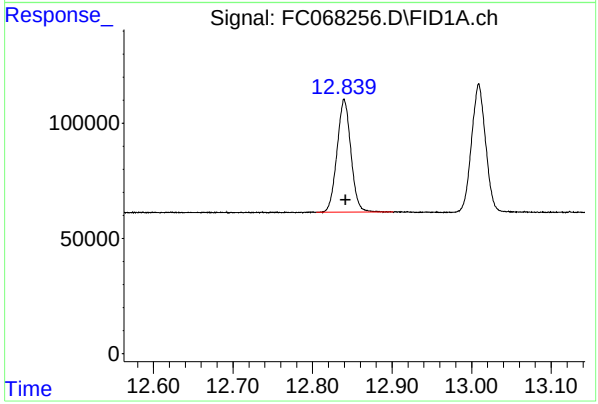
#10 n-Eicosane (C20)

R.T.: 12.398 min
Delta R.T.: -0.002 min
Response: 697130
Conc: 5.34 ug/ml



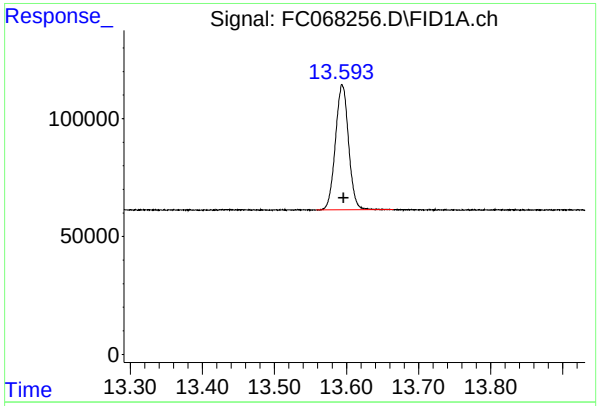
#11 n-Heneicosane (C21)

R.T.: 13.009 min
Delta R.T.: -0.002 min
Response: 687316
Conc: 5.38 ug/ml



#12 1-chlorooctadecane (SURR)

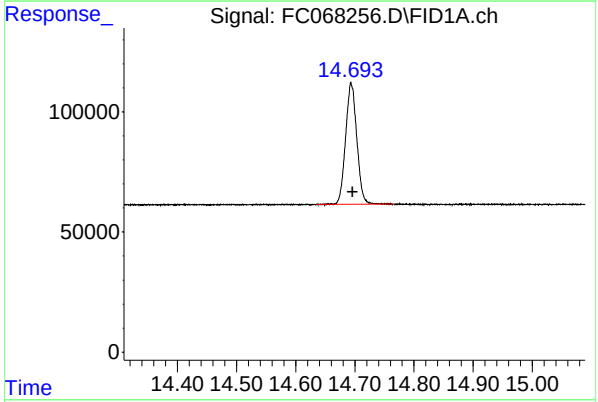
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 593786
Conc: 5.26 ug/ml



#13 n-Docosane (C22)

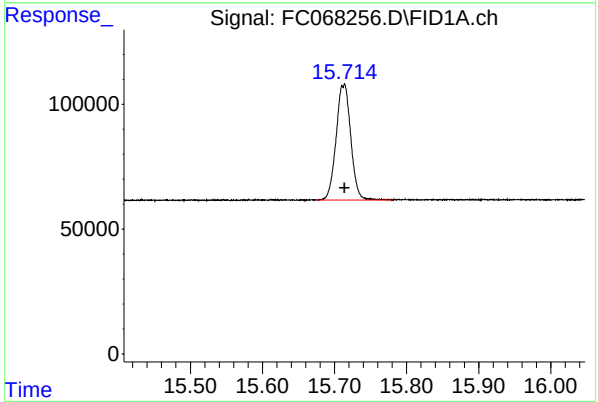
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 674382
Conc: 5.34 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



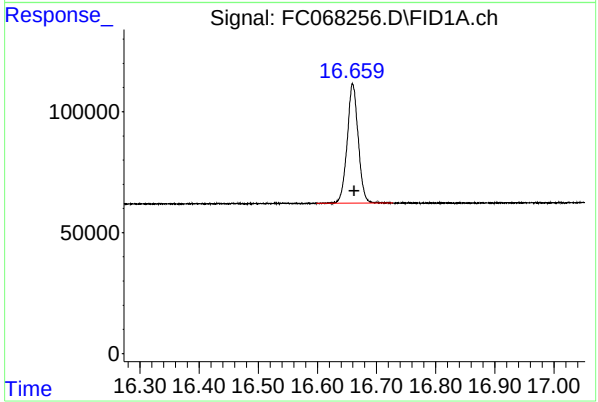
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 667971
Conc: 5.36 ug/ml



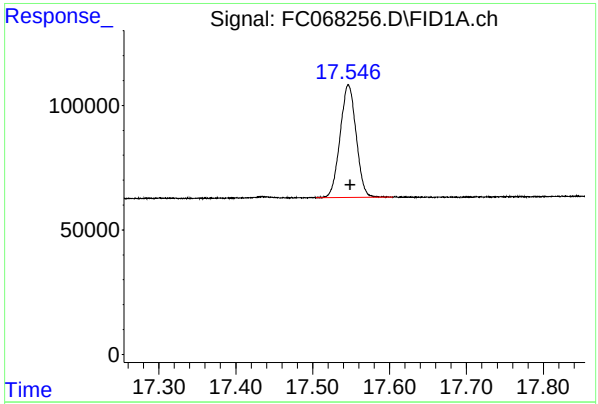
#15 n-Hexacosane (C26)

R.T.: 15.713 min
Delta R.T.: -0.001 min
Response: 652733
Conc: 5.35 ug/ml



#16 n-Octacosane (C28)

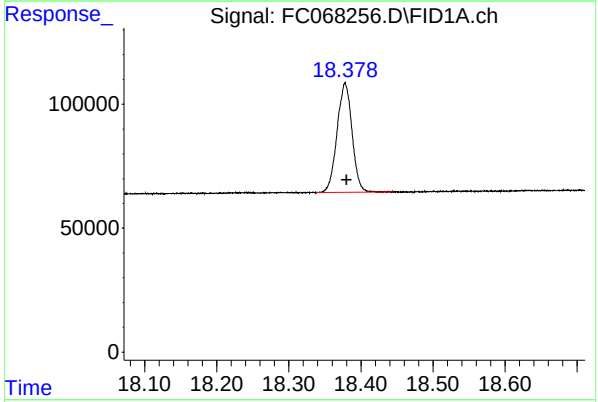
R.T.: 16.660 min
Delta R.T.: -0.002 min
Response: 639945
Conc: 5.37 ug/ml



#17 n-Tricontane (C30)

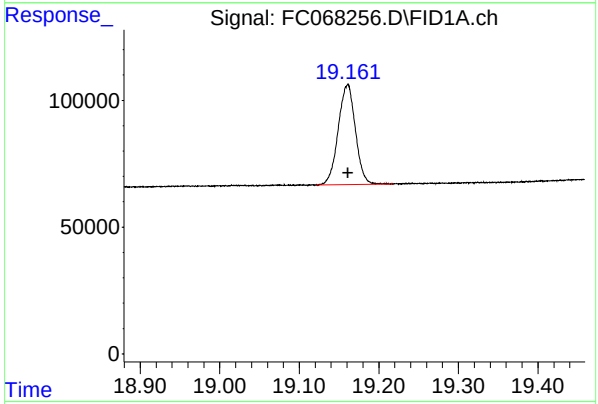
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 654656
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



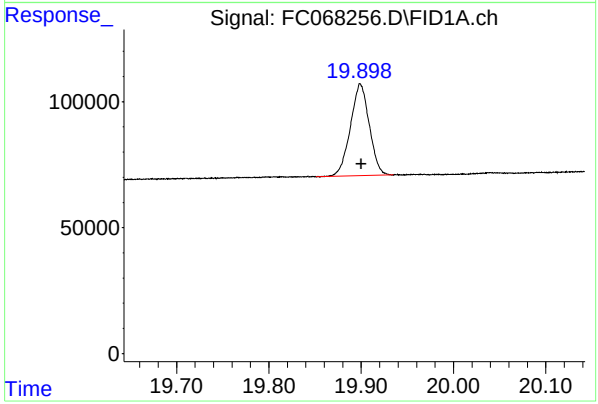
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.002 min
Response: 639981
Conc: 5.54 ug/ml



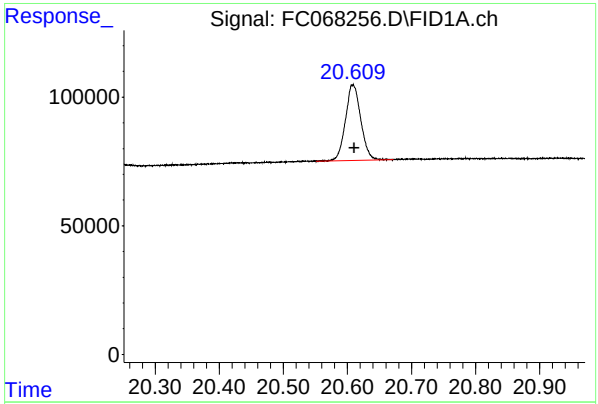
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 592586
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

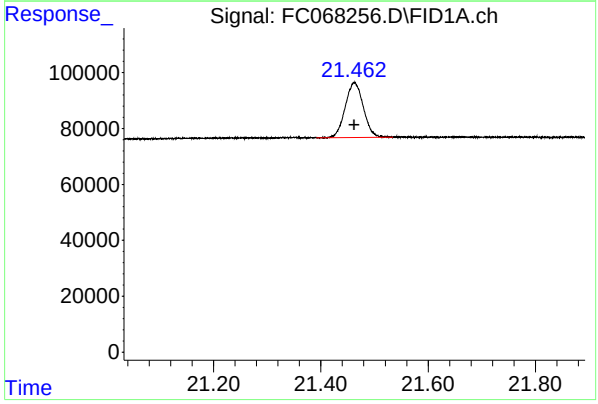
R.T.: 19.899 min
Delta R.T.: 0.000 min
Response: 518944
Conc: 5.40 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 min
Response: 485383
Conc: 5.38 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 459428
Conc: 5.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.178	3.268	BB	88225	739660	89.75%	5.035%
2	4.265	4.234	4.324	BB	81016	741867	90.02%	5.050%
3	5.833	5.804	5.894	BB	78603	779725	94.62%	5.307%
4	6.273	6.241	6.334	BB	74589	740350	89.84%	5.039%
5	6.884	6.848	6.958	BB	68142	729676	88.54%	4.967%
6	8.060	8.031	8.144	BB	66668	721115	87.50%	4.908%
7	9.655	9.618	9.724	BB	62427	722933	87.72%	4.921%
8	11.093	11.054	11.161	BB	62811	728153	88.36%	4.956%
9	11.397	11.364	11.464	BB	75900	824094	100.00%	5.609%
10	12.398	12.361	12.461	BB	58302	697130	84.59%	4.745%
11	12.840	12.804	12.901	BB	48610	593786	72.05%	4.042%
12	13.009	12.964	13.078	BB	55281	687316	83.40%	4.678%
13	13.594	13.558	13.664	BB	53078	674382	81.83%	4.590%
14	14.694	14.634	14.764	BB	50164	667971	81.06%	4.547%
15	15.713	15.674	15.781	BB	46241	652733	79.21%	4.443%
16	16.660	16.598	16.728	BB	48962	639945	77.65%	4.356%
17	17.547	17.504	17.604	BB	44994	654656	79.44%	4.456%
18	18.378	18.338	18.444	BB	44176	639981	77.66%	4.356%
19	19.160	19.121	19.218	BB	39586	592586	71.91%	4.033%
20	19.899	19.851	19.934	BB	36345	518944	62.97%	3.532%
21	20.609	20.551	20.671	BB	29349	485383	58.90%	3.304%
22	21.462	21.391	21.534	BB	19678	459428	55.75%	3.127%
			Sum of corrected areas:			14691811		

Aliphatic EPH 021125.M Tue Feb 11 02:40:20 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 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			
9) S	ortho-Terphenyl (SURR)	11.399	3006153	19.591 ug/ml
Spiked Amount	50.000		Recovery =	39.18%
12) S	1-chlorooctadecane (S...	12.841	2210712	19.655 ug/ml
Spiked Amount	50.000		Recovery =	39.31%
	Target Compounds			
1) T	n-Nonane (C9)	3.207	2763389	19.644 ug/ml
2) T	n-Decane (C10)	4.265	2787474	19.676 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	3022645	19.751 ug/ml
4) T	n-Dodecane (C12)	6.274	2762475	19.626 ug/ml
5) T	A~2-methylnaphthalene...	6.884	2871264	19.825 ug/ml
6) T	n-Tetradecane (C14)	8.061	2665240	19.548 ug/ml
7) T	n-Hexadecane (C16)	9.657	2676698	19.543 ug/ml
8) T	n-Octadecane (C18)	11.095	2671678	19.536 ug/ml
10) T	n-Eicosane (C20)	12.401	2547036	19.549 ug/ml
11) T	n-Heneicosane (C21)	13.011	2500910	19.562 ug/ml
13) T	n-Docosane (C22)	13.595	2472408	19.618 ug/ml
14) T	n-Tetracosane (C24)	14.696	2447601	19.679 ug/ml
15) T	n-Hexacosane (C26)	15.714	2396918	19.713 ug/ml
16) T	n-Octacosane (C28)	16.662	2352553	19.808 ug/ml
17) T	n-Tricontane (C30)	17.548	2368324	19.676 ug/ml
18) T	n-Dotriacontane (C32)	18.379	2282342	19.664 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	2121381	19.632 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1897153	19.727 ug/ml
21) T	n-Octatriacontane (C38)	20.609	1768616	19.674 ug/ml
22) T	n-Tetracontane (C40)	21.462	1709466	19.758 ug/ml

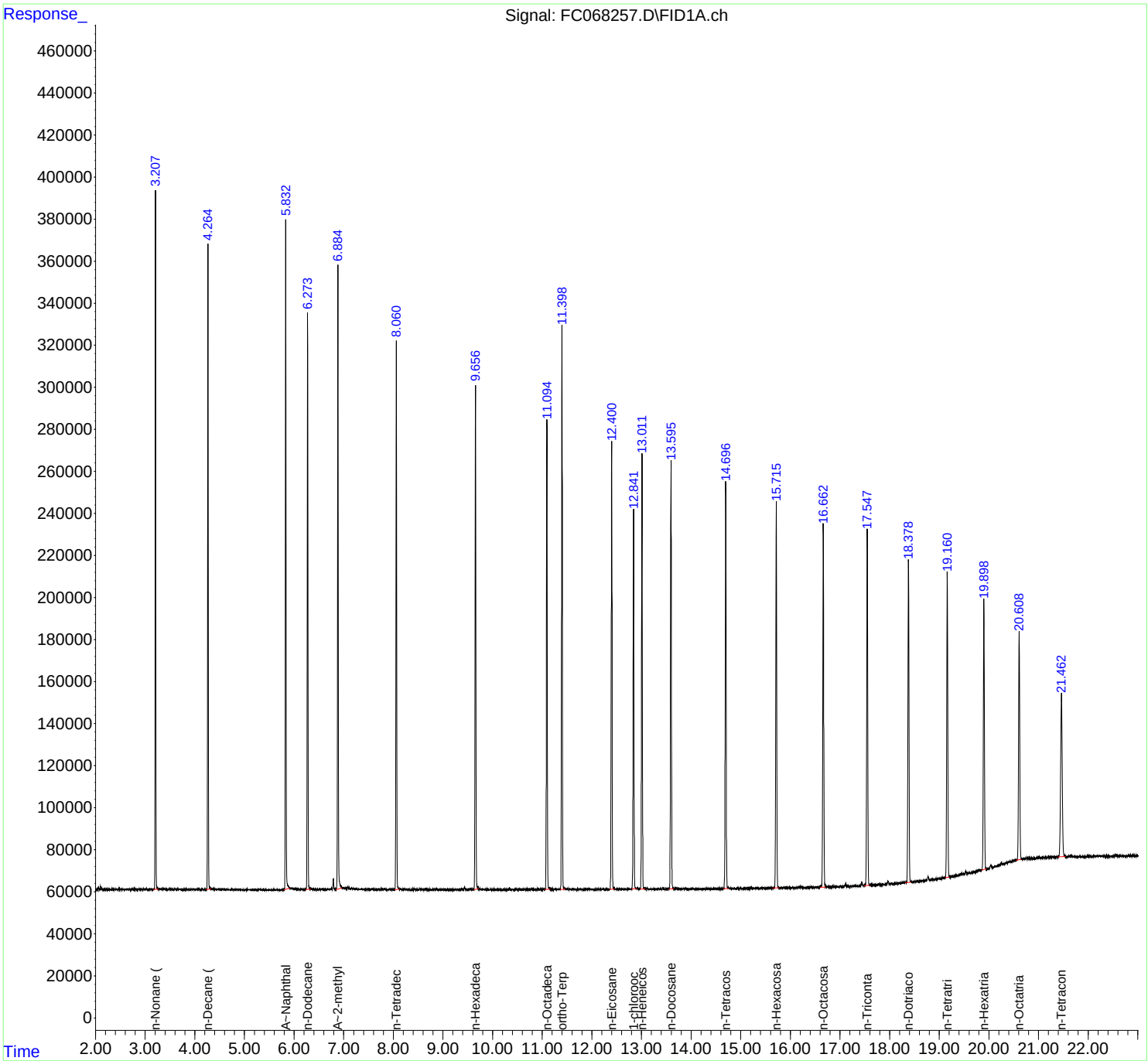
(f)=RT Delta > 1/2 Window (m)=manual int.

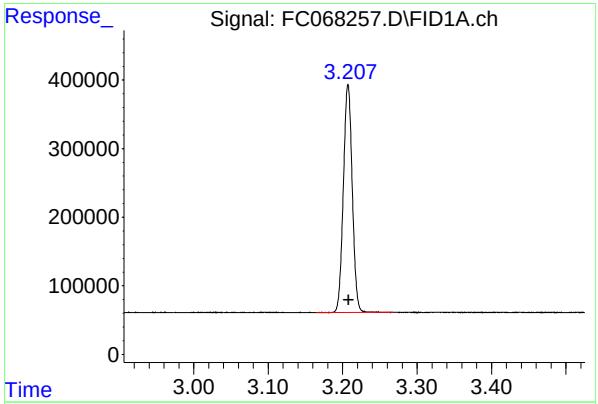
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

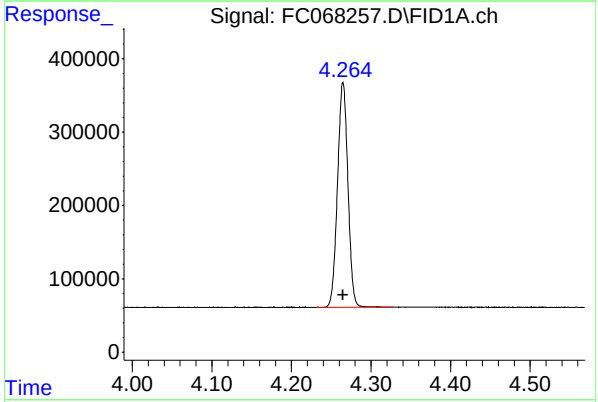




#1 n-Nonane (C9)

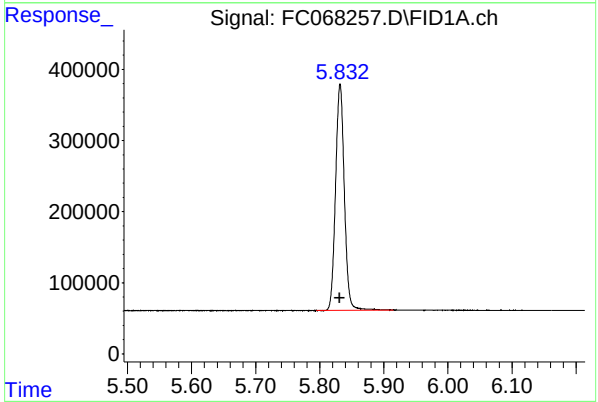
R.T.: 3.207 min
Delta R.T.: 0.000 min
Response: 2763389
Conc: 19.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



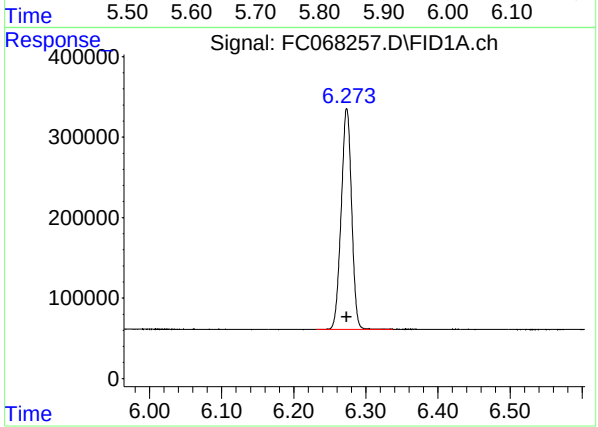
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2787474
Conc: 19.68 ug/ml



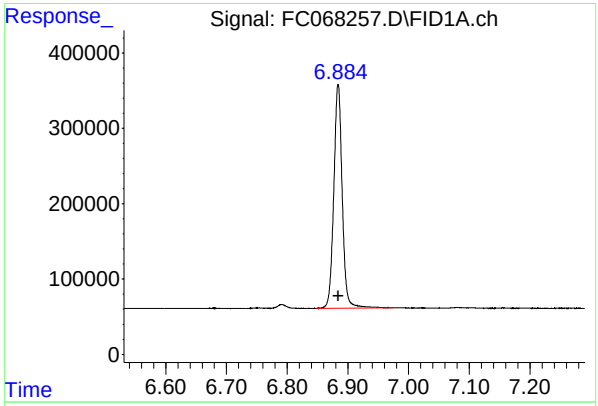
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 3022645
Conc: 19.75 ug/ml



#4 n-Dodecane (C12)

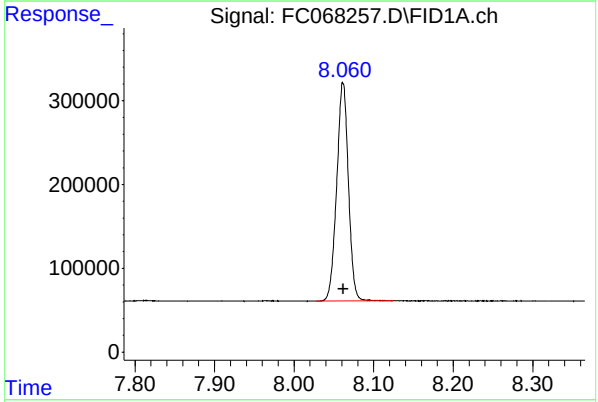
R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2762475
Conc: 19.63 ug/ml



#5 A~2-methylnaphthalene (C12.89)

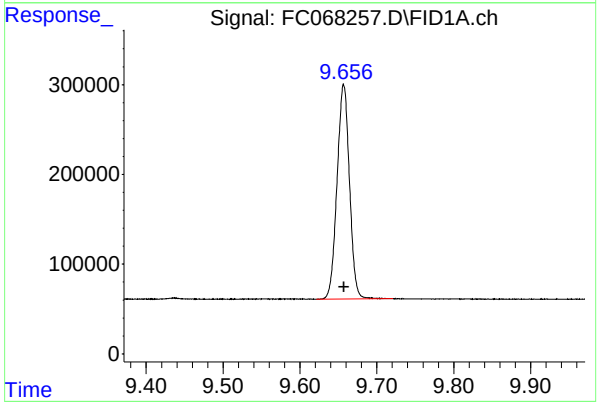
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2871264
Conc: 19.83 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



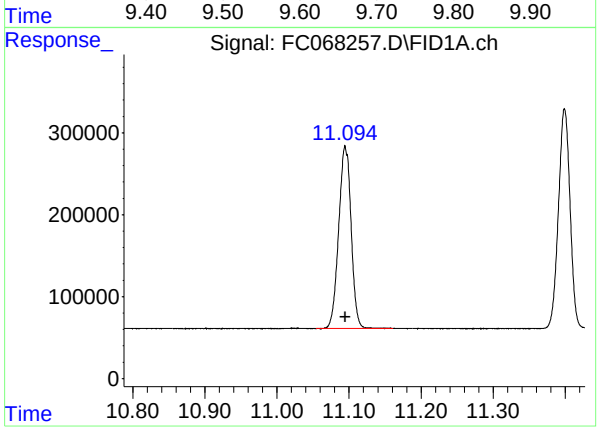
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 2665240
Conc: 19.55 ug/ml



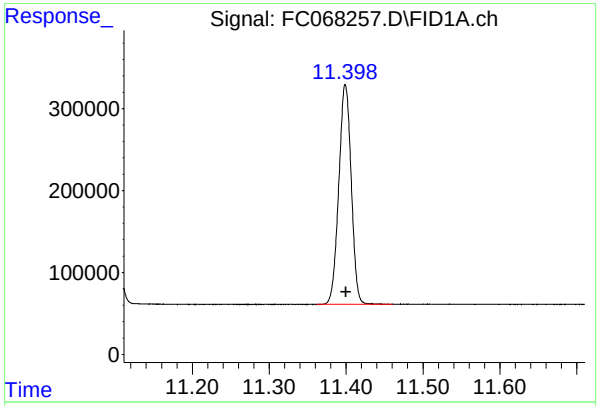
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2676698
Conc: 19.54 ug/ml



#8 n-Octadecane (C18)

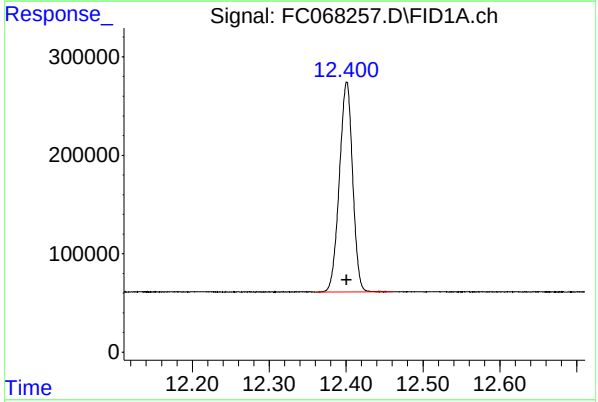
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2671678
Conc: 19.54 ug/ml



#9 ortho-Terphenyl (SURR)

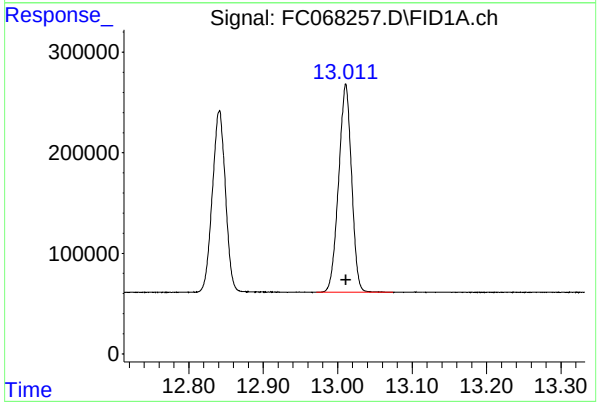
R.T.: 11.399 min
Delta R.T.: 0.000 min
Response: 3006153
Conc: 19.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



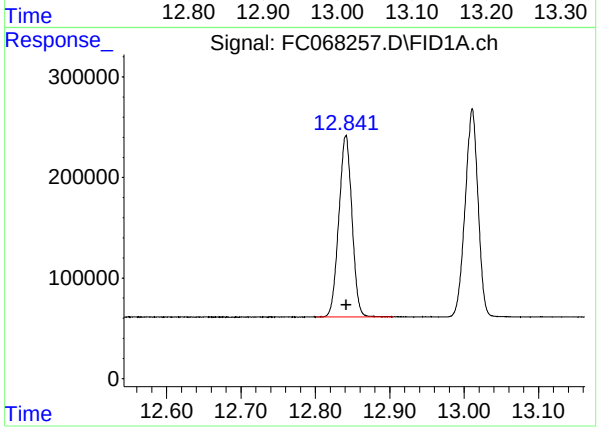
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2547036
Conc: 19.55 ug/ml



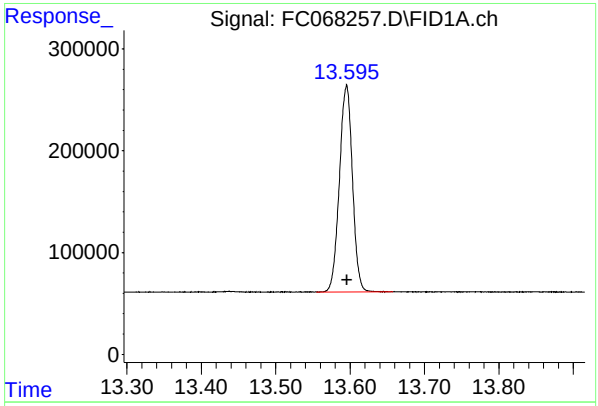
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2500910
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

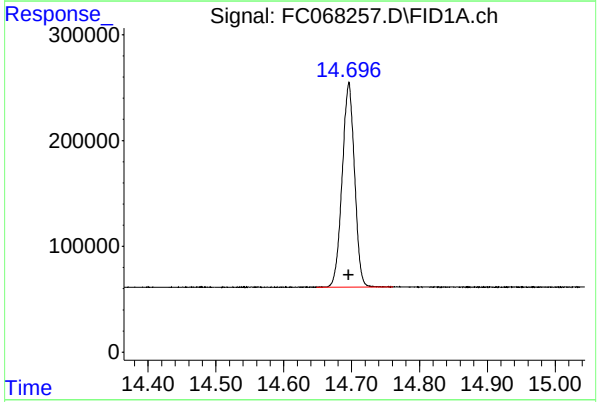
R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 2210712
Conc: 19.66 ug/ml



#13 n-Docosane (C22)

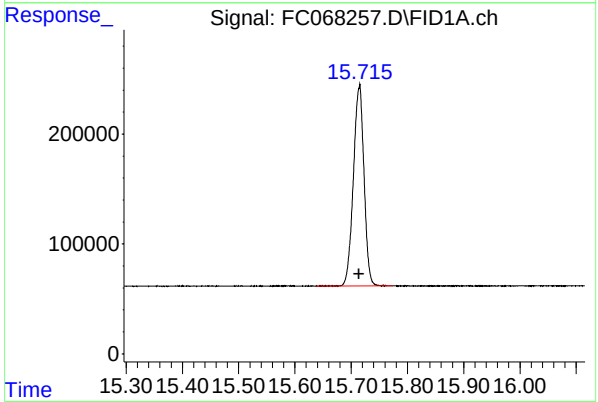
R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 2472408
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



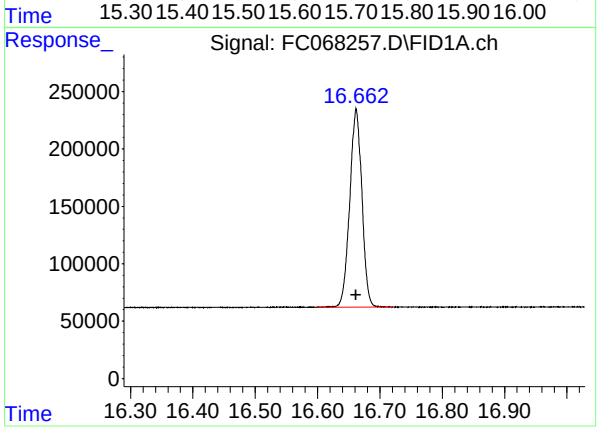
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2447601
Conc: 19.68 ug/ml



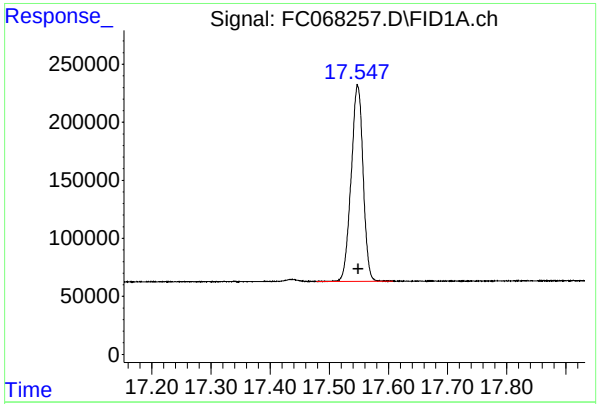
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2396918
Conc: 19.71 ug/ml



#16 n-Octacosane (C28)

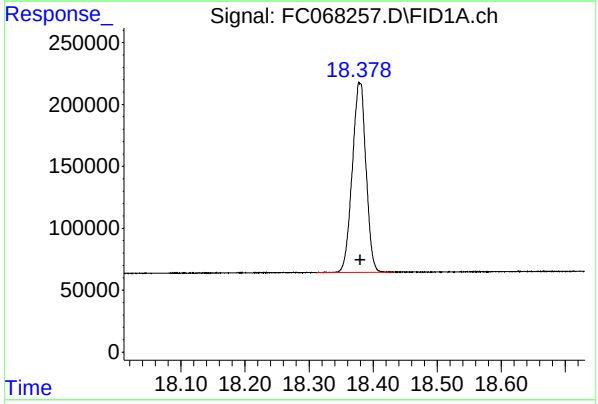
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2352553
Conc: 19.81 ug/ml



#17 n-Tricontane (C30)

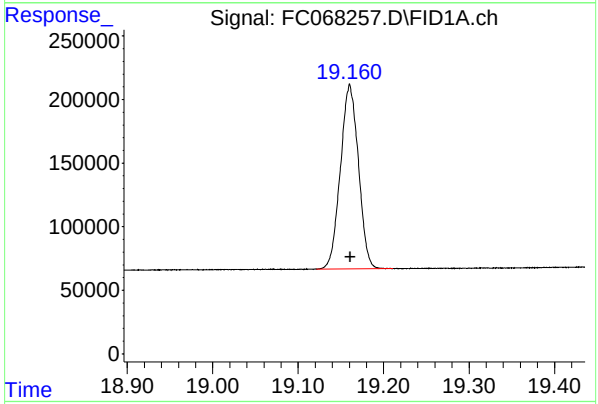
R.T.: 17.548 min
Delta R.T.: -0.001 min
Response: 2368324
Conc: 19.68 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



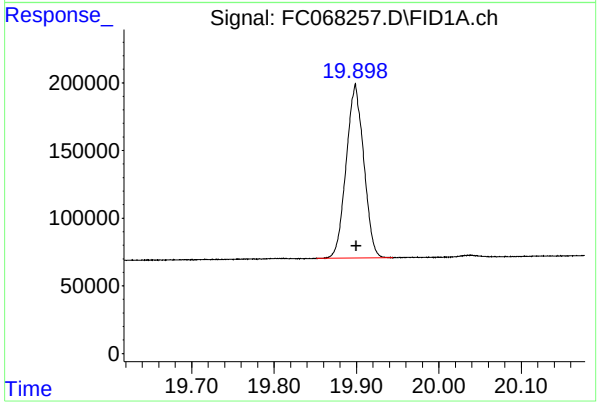
#18 n-Dotriacontane (C32)

R.T.: 18.379 min
Delta R.T.: 0.000 min
Response: 2282342
Conc: 19.66 ug/ml



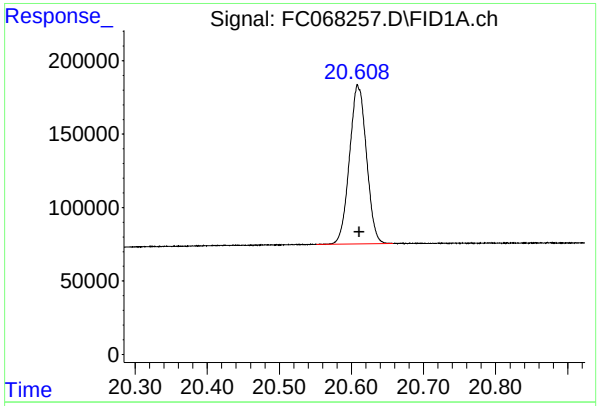
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 2121381
Conc: 19.63 ug/ml



#20 n-Hexatriacontane (C36)

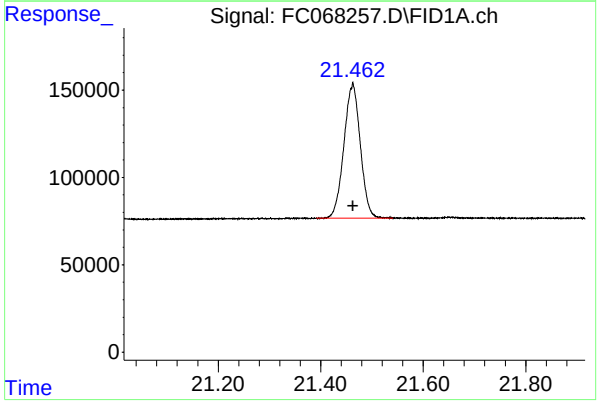
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1897153
Conc: 19.73 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 min
Response: 1768616
Conc: 19.67 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 1709466
Conc: 19.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.207	3.164	3.268	BB	332094	2763389	91.42%	5.089%
2	4.265	4.231	4.328	BB	306680	2787474	92.22%	5.133%
3	5.832	5.794	5.914	BB	316234	3022645	100.00%	5.566%
4	6.274	6.231	6.338	BB	274740	2762475	91.39%	5.087%
5	6.884	6.848	6.974	BB	297539	2871264	94.99%	5.288%
6	8.061	8.028	8.124	BB	260997	2665240	88.18%	4.908%
7	9.657	9.621	9.721	BB	239943	2676698	88.55%	4.929%
8	11.095	11.054	11.161	BB	222508	2671678	88.39%	4.920%
9	11.399	11.361	11.461	BB	268482	3006153	99.45%	5.536%
10	12.401	12.361	12.461	BB	214041	2547036	84.27%	4.690%
11	12.841	12.801	12.904	BB	180766	2210712	73.14%	4.071%
12	13.011	12.971	13.074	BB	207142	2500910	82.74%	4.606%
13	13.595	13.554	13.658	BB	201306	2472408	81.80%	4.553%
14	14.696	14.648	14.761	BB	189927	2447601	80.98%	4.507%
15	15.714	15.638	15.774	BB	182011	2396918	79.30%	4.414%
16	16.662	16.598	16.721	BB	171008	2352553	77.83%	4.332%
17	17.548	17.478	17.608	BB	168872	2368324	78.35%	4.361%
18	18.379	18.311	18.431	BB	154550	2282342	75.51%	4.203%
19	19.160	19.121	19.211	BB	143746	2121381	70.18%	3.907%
20	19.898	19.851	19.944	BB	125666	1897153	62.76%	3.494%
21	20.609	20.551	20.658	BB	106434	1768616	58.51%	3.257%
22	21.462	21.391	21.541	BB	75880	1709466	56.56%	3.148%
			Sum of corrected areas:			54302432		

Aliphatic EPH 021125.M Tue Feb 11 02:40:39 2025

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

Inital Calibration Report for SequenceID : FD021125AR

AreaCount

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	30133782.000	15194817.000	6263156.000	3318077.000	1700032.000	
Aromatic C12-C16	44977690.000	22823722.000	9507721.000	5041964.000	2641021.000	
Aromatic C16-C21	58435647.000	29734390.000	12145436.000	6295751.000	3256475.000	
Aromatic C21-C36	121981098.000	62220992.000	25499877.000	13225172.000	6892110.000	
Aromatic EPH	255528217.000	129973921.000	53416190.000	27880964.000	14489638.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	159020.606	5.389				
Aromatic C12-C16	160935.8659994	6.836				
Aromatic C16-C21	153359.3085	4.411				
Aromatic C21-C36	143114.7526664	4.923				
Aromatic EPH	150128.8232216	5.194				

Concentration

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	150668.910000	151948.170000	156578.900000	165903.850000	170003.200000	
Aromatic C12-C16	149925.633333	152158.146666	158462.016666	168065.466666	176068.066666	
Aromatic C16-C21	146089.117500	148671.950000	151817.950000	157393.775000	162823.750000	
Aromatic C21-C36	135534.553333	138268.871111	141665.983333	146946.355555	153158.000000	
Aromatic EPH	141960.120555	144415.467777	148378.305555	154894.244444	160995.977777	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 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...	7.356	13521753	97.612 ug/ml
Spiked Amount	50.000		Recovery =	195.22%
6) S	2-Flurobiphenyl (SURR)	8.206	9031094	100.727 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	201.45%#
11) S	ortho-Terphenyl (SURR)	11.242	14903579	96.771 ug/ml
Spiked Amount	50.000		Recovery =	193.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.179	14869075	97.560 ug/ml
2) T	Naphthalene (C11.7)	5.697	15264707	98.585 ug/ml
3) T	2-Methylnaphthalene (...	6.744	14901306	97.974 ug/ml
5) T	Acenaphthylene (C15.06)	8.010	15174302	97.403 ug/ml
7) T	Acenaphthene (C15.5)	8.306	14902082	96.330 ug/ml
8) T	Flouorene (C16.55)	9.085	14990417	97.888 ug/ml
9) T	Phenanthrene (C19.36)	10.472	14561159	98.628 ug/ml
10) T	Anthracene (C19.43)	10.548	14369869	97.698 ug/ml
12) T	Fluoranthene (C21.85)	12.278	14577451	97.401 ug/ml
13) T	Pyrene (C20.8)	12.571	14514202	98.100 ug/ml
14) T	Benzo[a]anthracene (C...	14.441	13838427	101.145 ug/ml
15) T	Chrysene (C27.41)	14.487	14067276	95.042 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	13742882	98.944 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	13818927	96.450 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.370	13061093	98.611 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.738	12478937	107.613 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	13100134	91.486 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.995	13295971	96.863 ug/ml

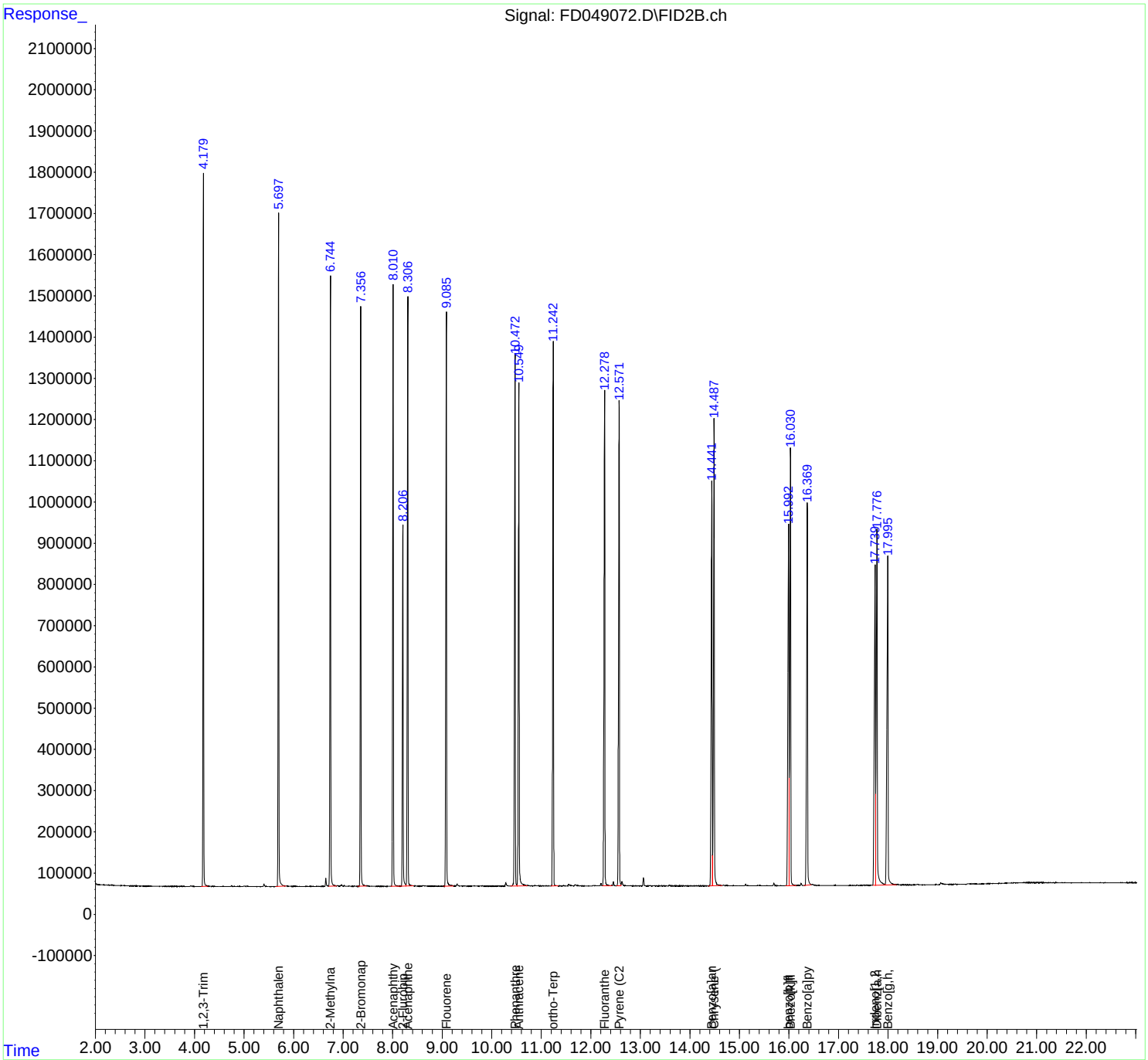
(f)=RT Delta > 1/2 Window (m)=manual int.

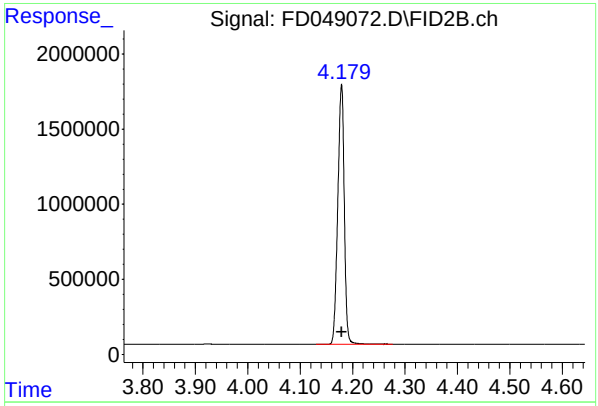
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

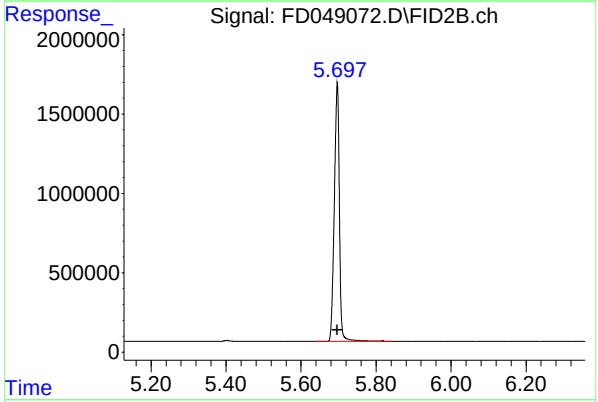




#1 1,2,3-Trimethylbenzene (C10.1)

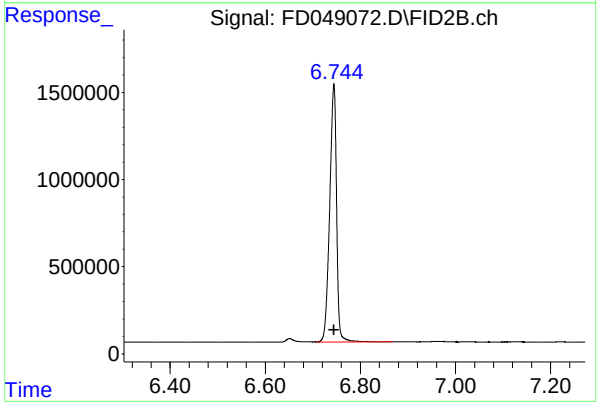
R.T.: 4.179 min
Delta R.T.: 0.000 min
Response: 14869075
Conc: 97.56 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



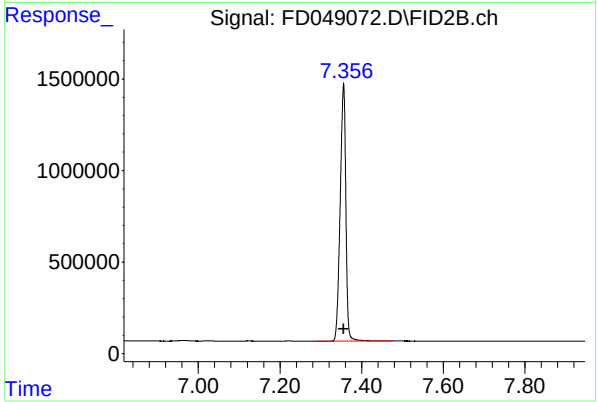
#2 Naphthalene (C11.7)

R.T.: 5.697 min
Delta R.T.: 0.000 min
Response: 15264707
Conc: 98.58 ug/ml



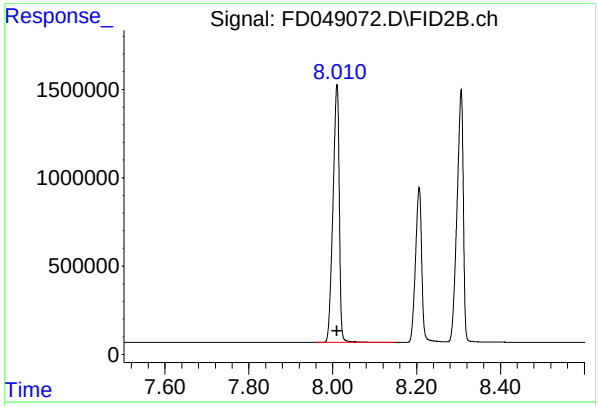
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.744 min
Delta R.T.: 0.000 min
Response: 14901306
Conc: 97.97 ug/ml



#4 2-Bromonaphthalene (SURR)

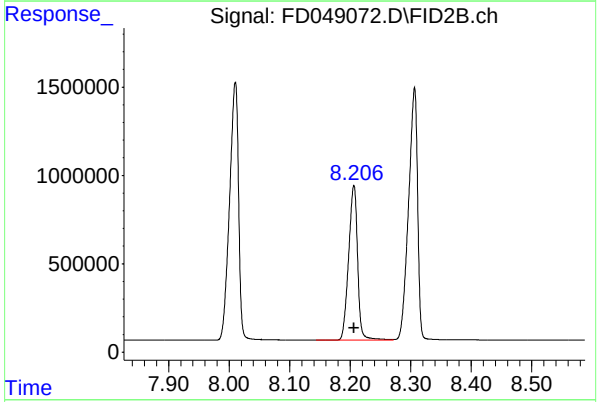
R.T.: 7.356 min
Delta R.T.: 0.000 min
Response: 13521753
Conc: 97.61 ug/ml



#5 Acenaphthylene (C15.06)

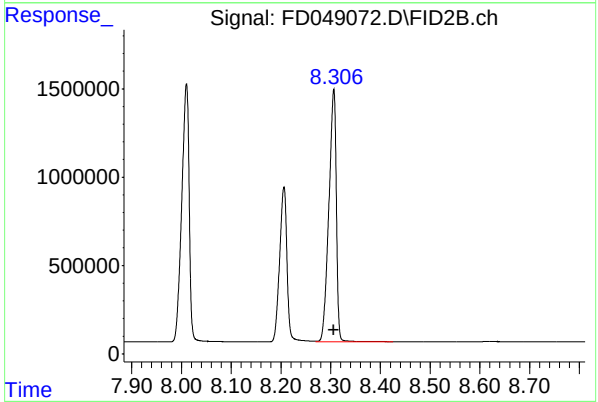
R.T.: 8.010 min
Delta R.T.: 0.000 min
Response: 15174302
Conc: 97.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



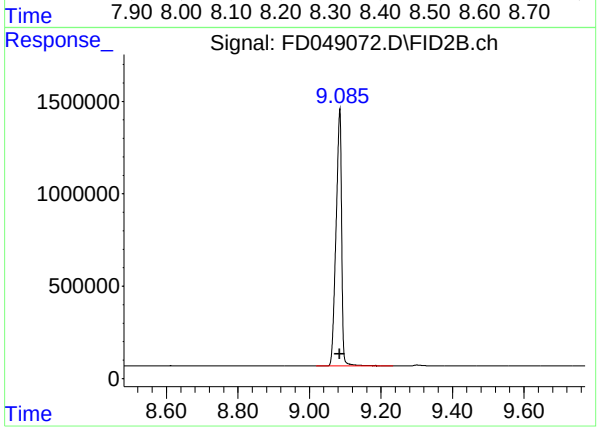
#6 2-Flurobiphenyl (SURR)

R.T.: 8.206 min
Delta R.T.: 0.000 min
Response: 9031094
Conc: 100.73 ug/ml



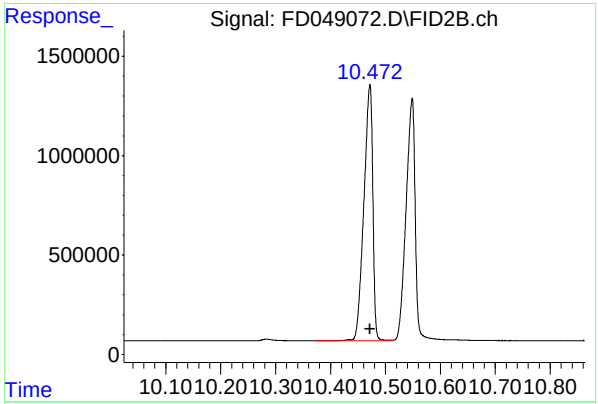
#7 Acenaphthene (C15.5)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 14902082
Conc: 96.33 ug/ml



#8 Flouorene (C16.55)

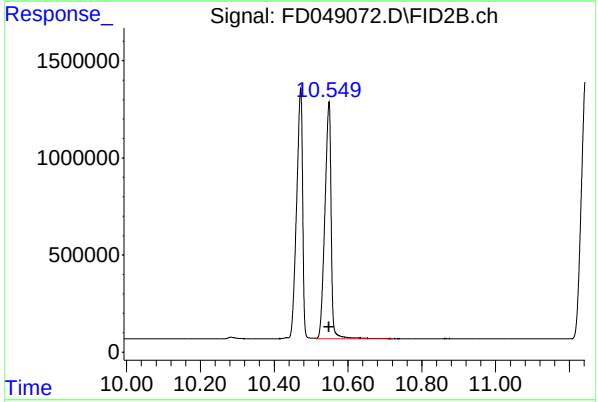
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 14990417
Conc: 97.89 ug/ml



#9 Phenanthrene (C19.36)

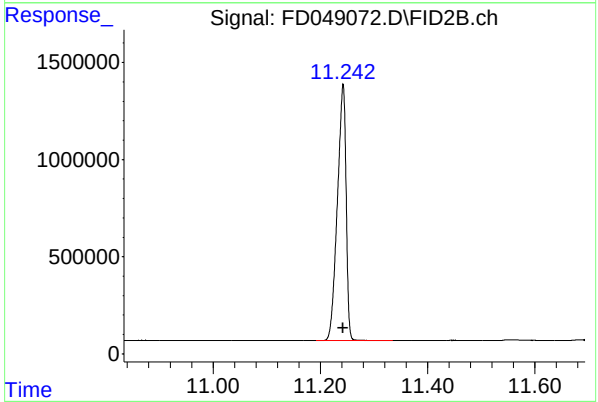
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 14561159
Conc: 98.63 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



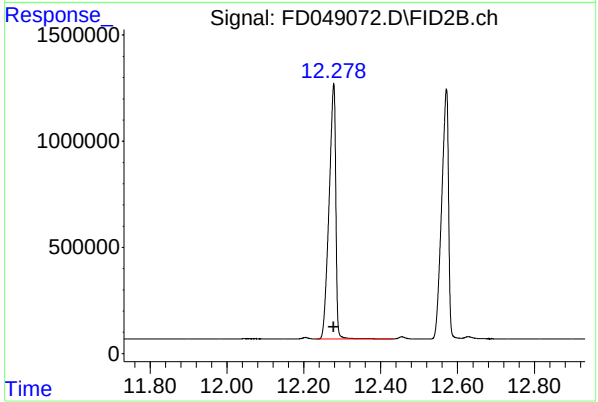
#10 Anthracene (C19.43)

R.T.: 10.548 min
Delta R.T.: 0.000 min
Response: 14369869
Conc: 97.70 ug/ml



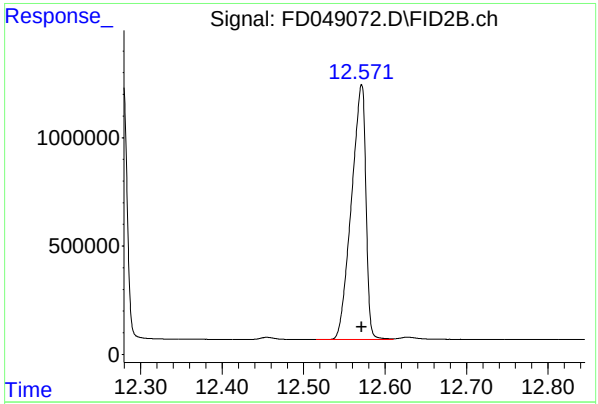
#11 ortho-Terphenyl (SURR)

R.T.: 11.242 min
Delta R.T.: 0.000 min
Response: 14903579
Conc: 96.77 ug/ml



#12 Fluoranthene (C21.85)

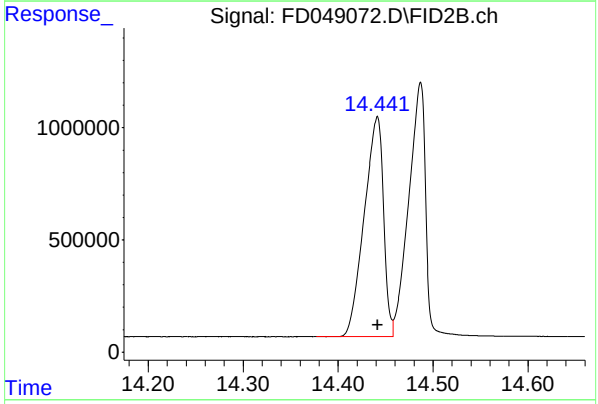
R.T.: 12.278 min
Delta R.T.: 0.000 min
Response: 14577451
Conc: 97.40 ug/ml



#13 Pyrene (C20.8)

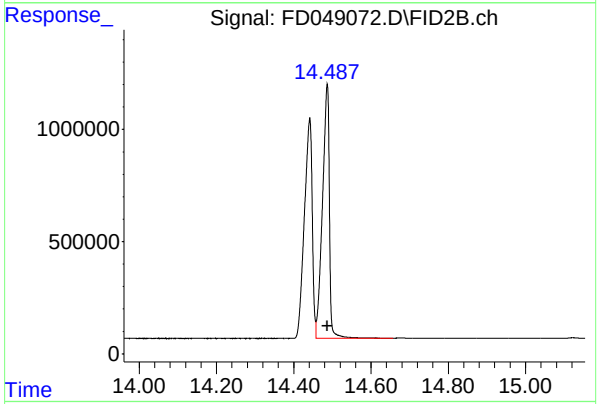
R.T.: 12.571 min
Delta R.T.: 0.000 min
Response: 14514202
Conc: 98.10 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



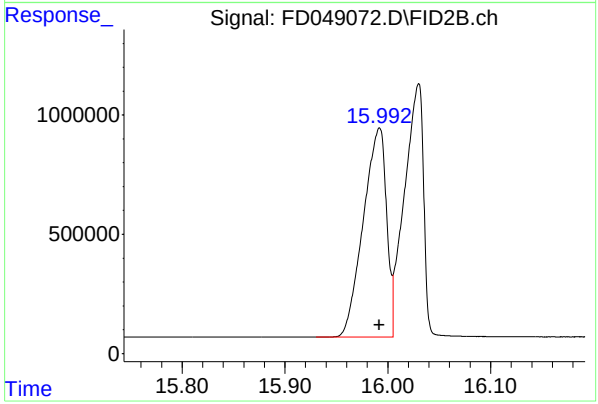
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.441 min
Delta R.T.: 0.000 min
Response: 13838427
Conc: 101.14 ug/ml



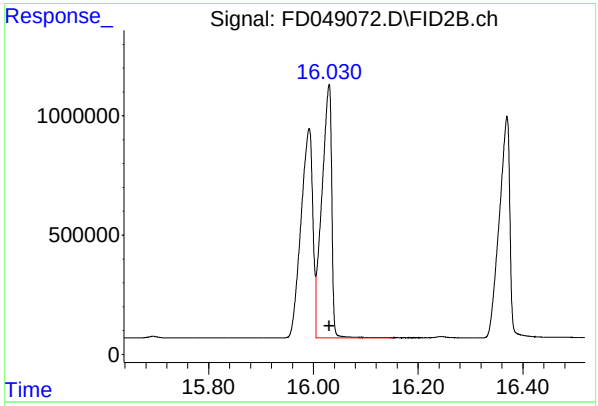
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: 0.000 min
Response: 14067276
Conc: 95.04 ug/ml



#16 benzo[b]fluoranthene (C30.41)

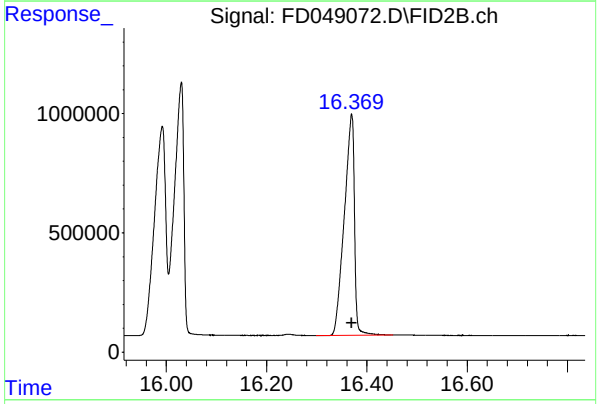
R.T.: 15.992 min
Delta R.T.: 0.000 min
Response: 13742882
Conc: 98.94 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

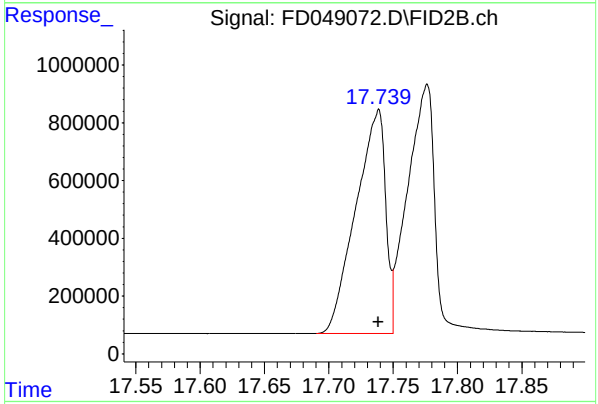
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 13818927
Conc: 96.45 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



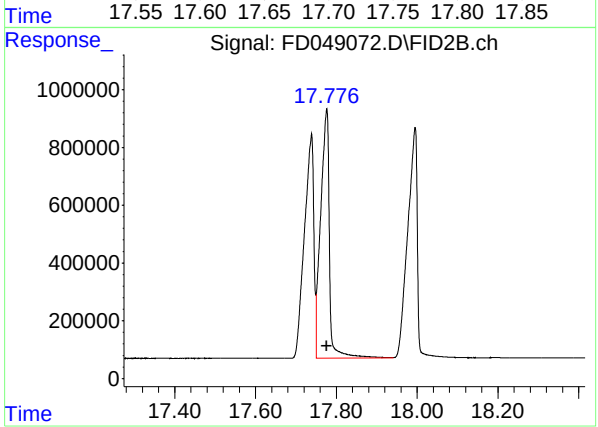
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.370 min
Delta R.T.: 0.000 min
Response: 13061093
Conc: 98.61 ug/ml



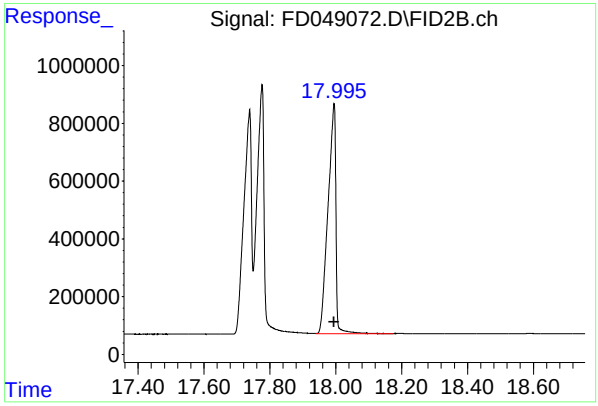
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.738 min
Delta R.T.: 0.000 min
Response: 12478937
Conc: 107.61 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.776 min
Delta R.T.: 0.000 min
Response: 13100134
Conc: 91.49 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.995 min
Delta R.T.: 0.000 mi
Response: 13295971
Conc: 96.86 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.179	4.130	4.277	BV	1725911	14869075	97.41%	5.075%
2	5.697	5.640	5.845	BV	1634675	15264707	100.00%	5.210%
3	6.744	6.707	6.869	VV	1483646	14901306	97.62%	5.086%
4	7.356	7.289	7.477	BB	1400044	13521753	88.58%	4.615%
5	8.010	7.960	8.144	BB	1461744	15174302	99.41%	5.179%
6	8.206	8.144	8.271	BV	877931	9031094	59.16%	3.082%
7	8.306	8.271	8.425	VB	1434092	14902082	97.62%	5.086%
8	9.085	9.019	9.234	BB	1398721	14990417	98.20%	5.116%
9	10.472	10.374	10.514	BV	1291889	14561159	95.39%	4.970%
10	10.548	10.514	10.722	VB	1219536	14369869	94.14%	4.905%
11	11.242	11.192	11.335	BB	1319058	14903579	97.63%	5.087%
12	12.278	12.232	12.432	VV	1208983	14577451	95.50%	4.976%
13	12.571	12.515	12.610	BV	1180482	14514202	95.08%	4.954%
14	14.441	14.377	14.458	BV	983584	13838427	90.66%	4.723%
15	14.487	14.458	14.657	VV	1134752	14067276	92.16%	4.801%
16	15.992	15.930	16.005	BV	877521	13742882	90.03%	4.691%
17	16.030	16.005	16.152	VB	1064780	13818927	90.53%	4.717%
18	16.370	16.299	16.452	BV	929001	13061093	85.56%	4.458%
19	17.738	17.690	17.750	BV	775881	12478937	81.75%	4.259%
20	17.776	17.750	17.940	VV	865574	13100134	85.82%	4.471%
21	17.995	17.940	18.174	VV	799393	13295971	87.10%	4.538%
			Sum of corrected areas:			292984644		

Aromatic EPH 021125.M Tue Feb 11 00:32:56 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.352	6832671	49.548 ug/ml
Spiked Amount 50.000		Recovery =	99.10%
6) S 2-Flurobiphenyl (SURR)	8.201	4519240	50.269 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	100.54%
11) S ortho-Terphenyl (SURR)	11.236	7609409	49.605 ug/ml
Spiked Amount 50.000		Recovery =	99.21%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.176	7483064	49.395 ug/ml
2) T Naphthalene (C11.7)	5.693	7711753	49.870 ug/ml
3) T 2-Methylnaphthalene (...	6.740	7516774	49.613 ug/ml
5) T Acenaphthylene (C15.06)	8.005	7704821	49.636 ug/ml
7) T Acenaphthene (C15.5)	8.300	7602127	49.425 ug/ml
8) T Flouorene (C16.55)	9.078	7593219	49.722 ug/ml
9) T Phenanthrene (C19.36)	10.465	7379729	49.990 ug/ml
10) T Anthracene (C19.43)	10.541	7344304	49.955 ug/ml
12) T Fluoranthene (C21.85)	12.270	7455312	49.876 ug/ml
13) T Pyrene (C20.8)	12.562	7417138	50.088 ug/ml
14) T Benzo[a]anthracene (C...	14.434	6964194	50.597 ug/ml
15) T Chrysene (C27.41)	14.475	7274381	49.429 ug/ml
16) T benzo[b]fluoranthene ...	15.983	6978240	50.160 ug/ml
17) T Bnezo[k]fluoranthene ...	16.015	7115728	49.346 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.357	6633881	50.057 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.724	5940391	50.812 ug/ml
20) T Dibenz[a,h]anthracene...	17.760	7026106	49.374 ug/ml
21) T Benzo[g,h,i]perylene ...	17.977	6832759	49.851 ug/ml

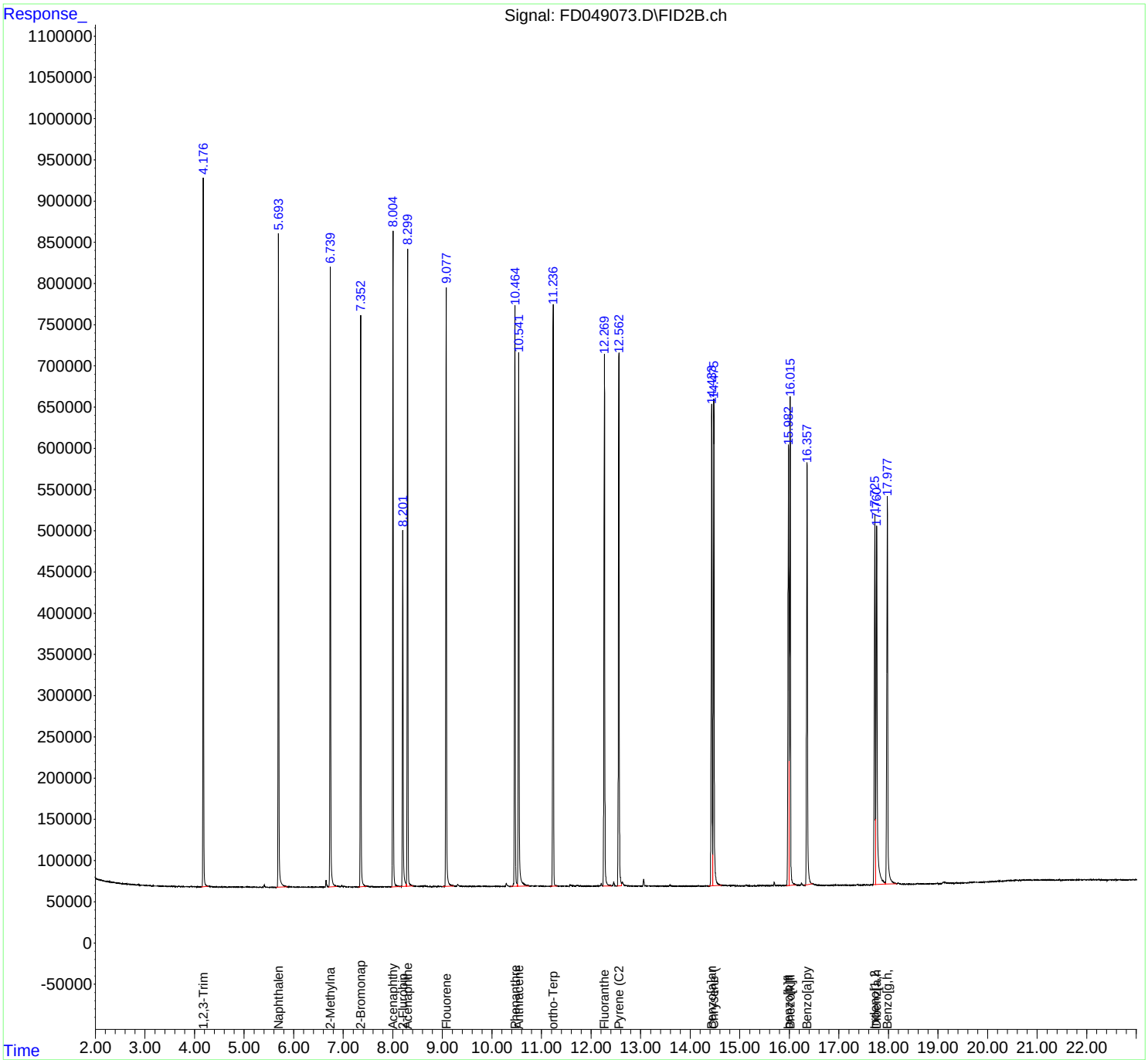
(f)=RT Delta > 1/2 Window (m)=manual int.

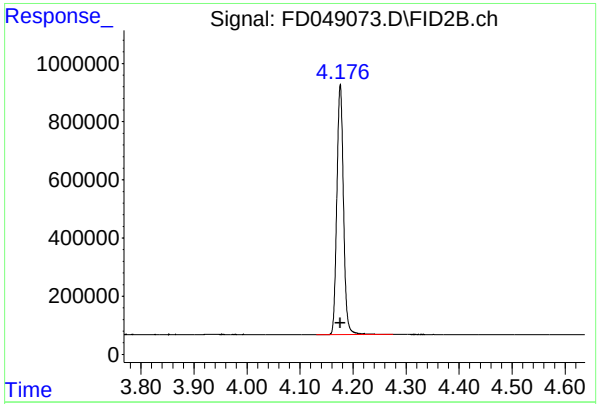
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

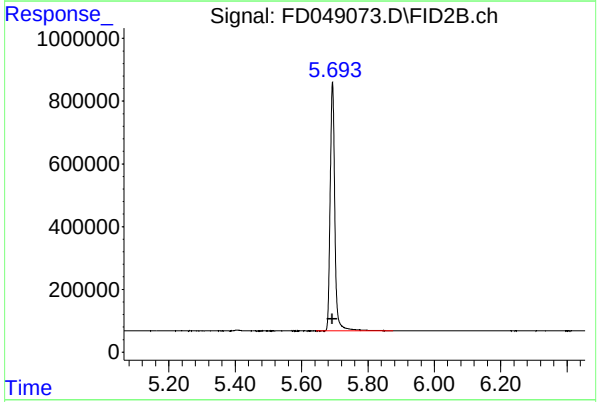




#1 1,2,3-Trimethylbenzene (C10.1)

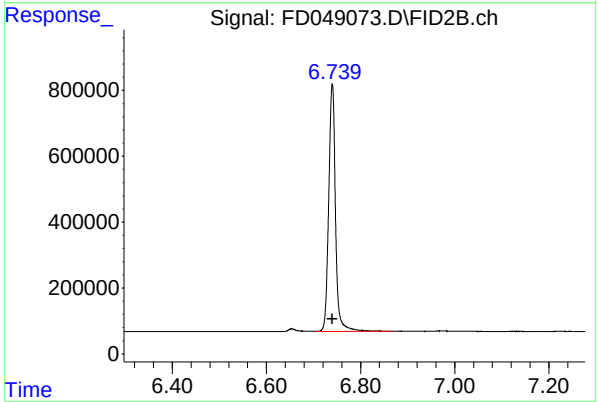
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 7483064
Conc: 49.40 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



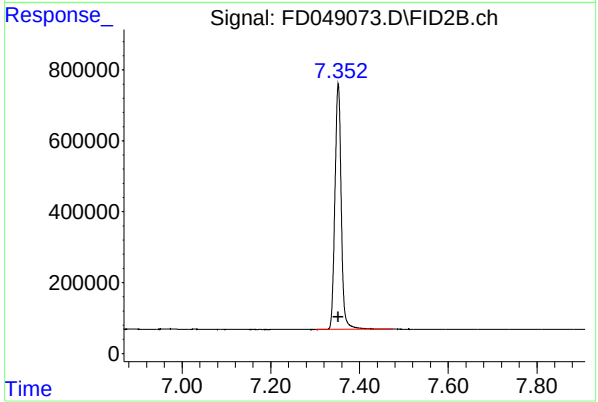
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 7711753
Conc: 49.87 ug/ml



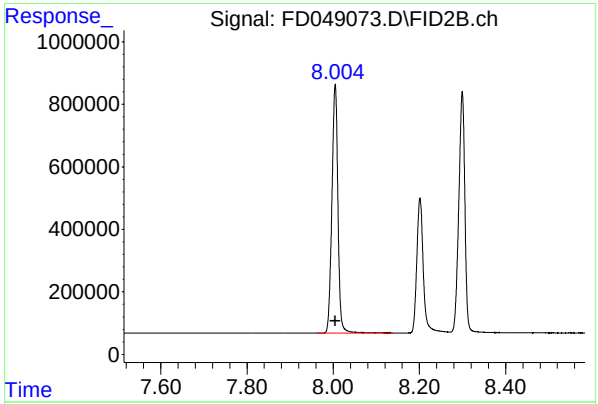
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 7516774
Conc: 49.61 ug/ml



#4 2-Bromonaphthalene (SURR)

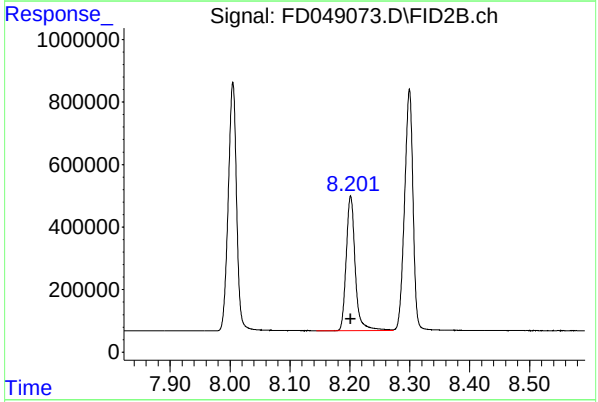
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 6832671
Conc: 49.55 ug/ml



#5 Acenaphthylene (C15.06)

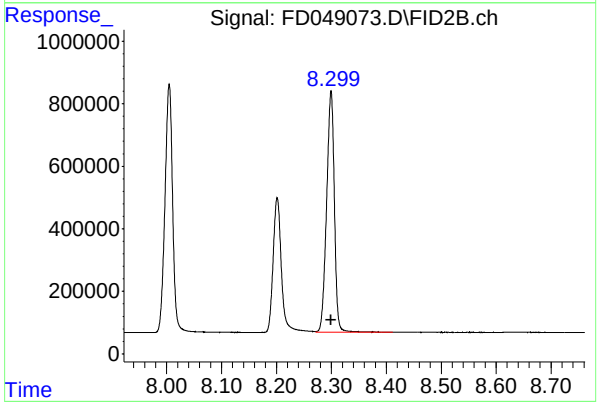
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 7704821
Conc: 49.64 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



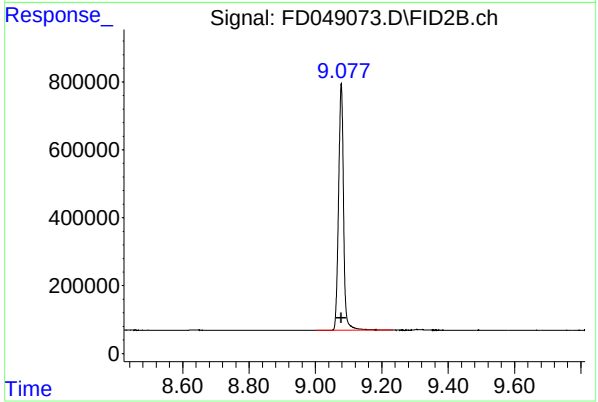
#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 4519240
Conc: 50.27 ug/ml



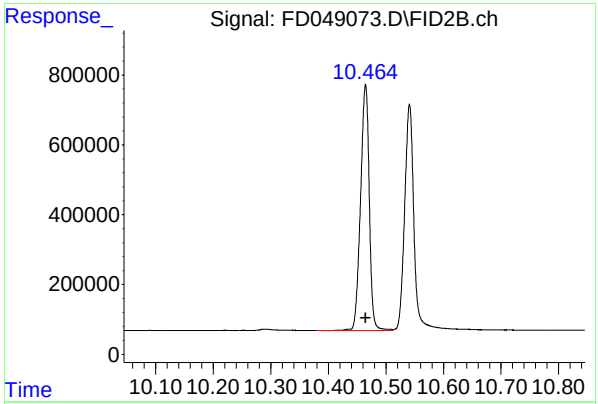
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 7602127
Conc: 49.42 ug/ml



#8 Flouorene (C16.55)

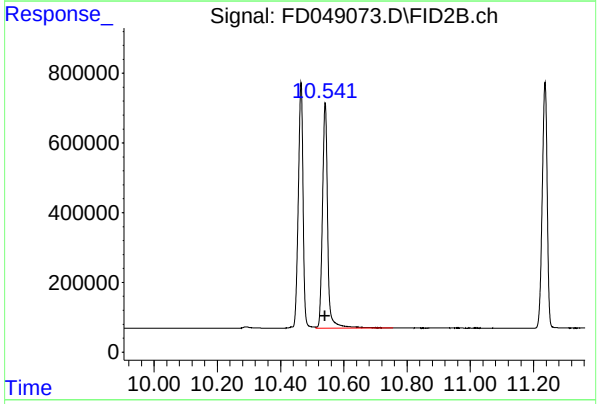
R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 7593219
Conc: 49.72 ug/ml



#9 Phenanthrene (C19.36)

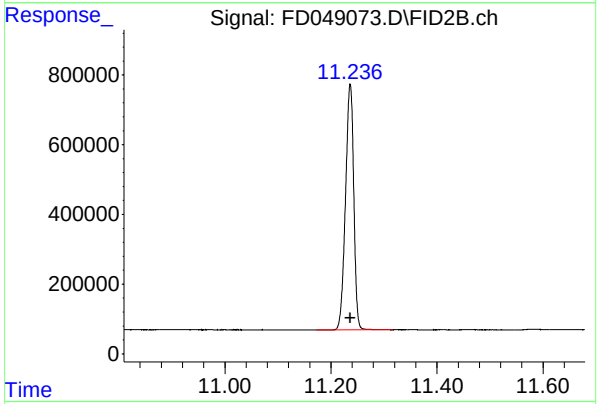
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 7379729
Conc: 49.99 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



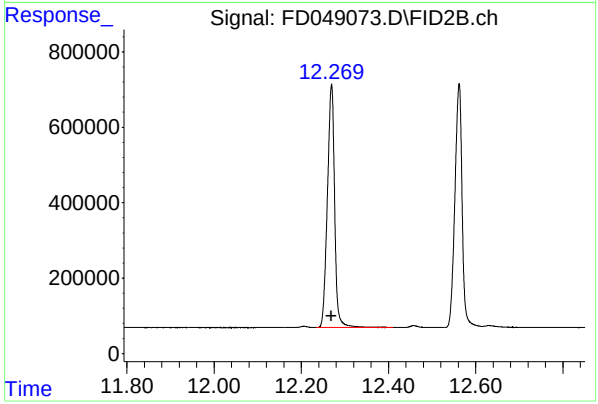
#10 Anthracene (C19.43)

R.T.: 10.541 min
Delta R.T.: 0.000 min
Response: 7344304
Conc: 49.96 ug/ml



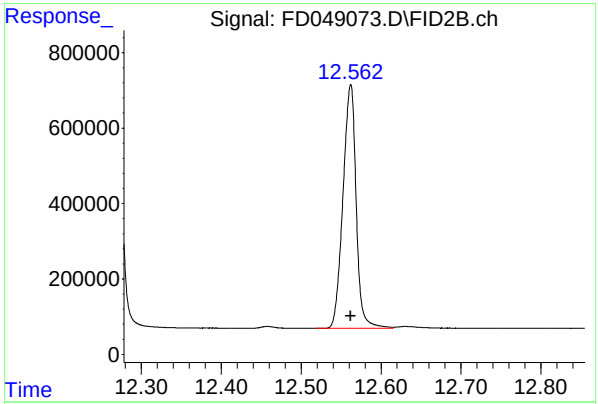
#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.000 min
Response: 7609409
Conc: 49.60 ug/ml



#12 Fluoranthene (C21.85)

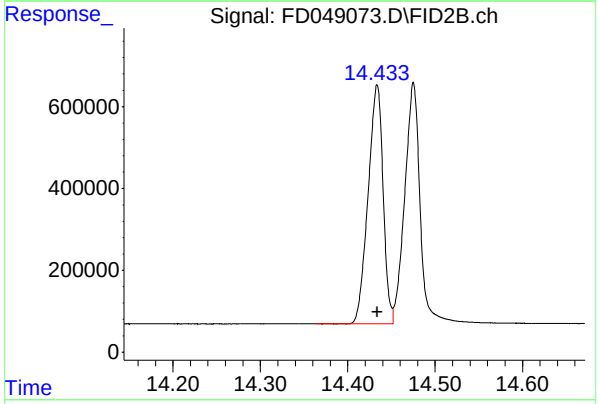
R.T.: 12.270 min
Delta R.T.: 0.000 min
Response: 7455312
Conc: 49.88 ug/ml



#13 Pyrene (C20.8)

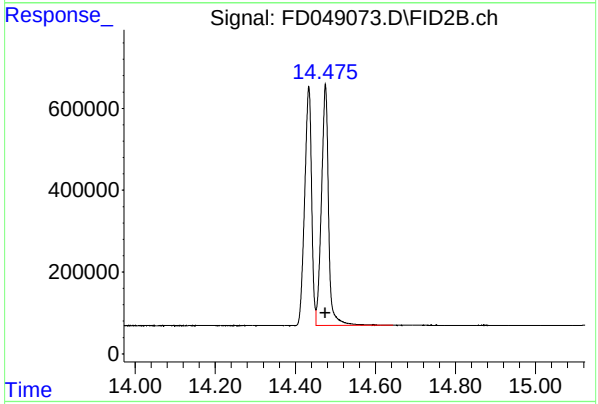
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 7417138
Conc: 50.09 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



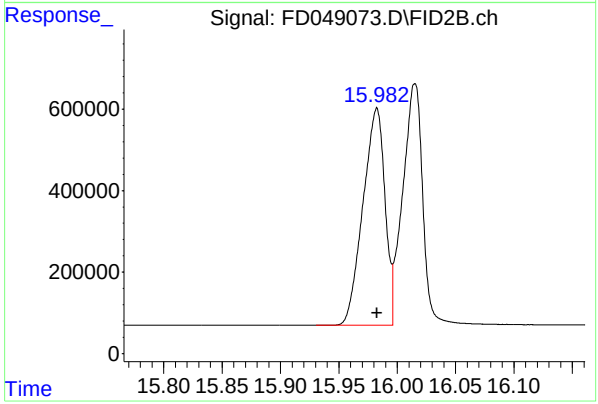
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.434 min
Delta R.T.: 0.000 min
Response: 6964194
Conc: 50.60 ug/ml



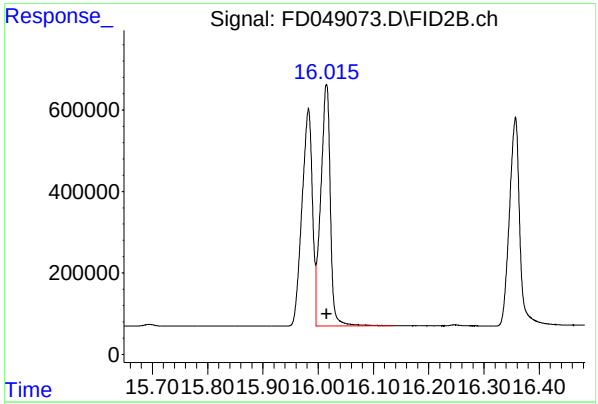
#15 Chrysene (C27.41)

R.T.: 14.475 min
Delta R.T.: 0.000 min
Response: 7274381
Conc: 49.43 ug/ml



#16 benzo[b]fluoranthene (C30.41)

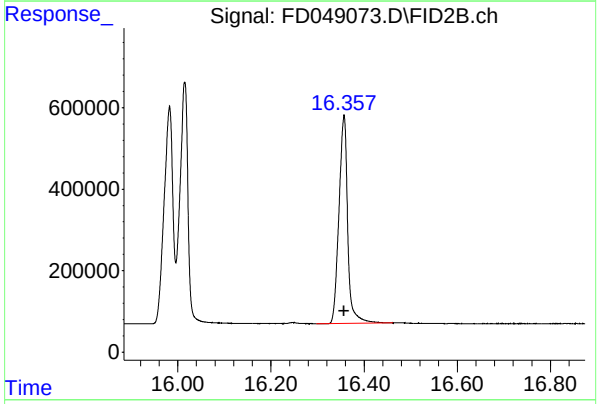
R.T.: 15.983 min
Delta R.T.: 0.000 min
Response: 6978240
Conc: 50.16 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

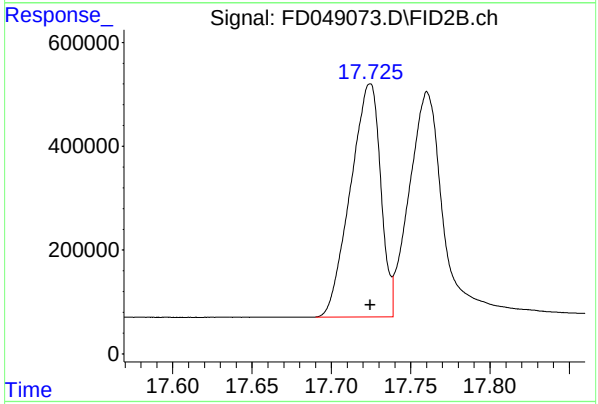
R.T.: 16.015 min
Delta R.T.: 0.000 min
Response: 7115728
Conc: 49.35 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



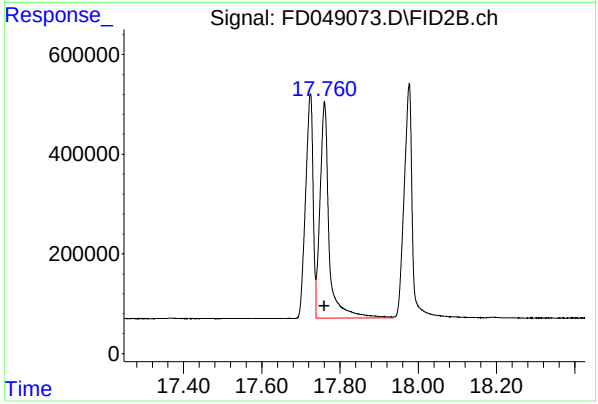
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.357 min
Delta R.T.: 0.000 min
Response: 6633881
Conc: 50.06 ug/ml



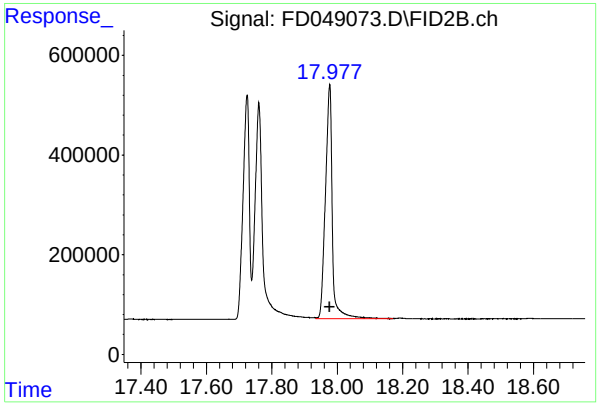
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.724 min
Delta R.T.: 0.000 min
Response: 5940391
Conc: 50.81 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.760 min
Delta R.T.: 0.000 min
Response: 7026106
Conc: 49.37 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.977 min
Delta R.T.: 0.000 mi
Response: 6832759
Conc: 49.85 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.275	BB	856930	7483064	97.03%	5.024%
2	5.693	5.644	5.875	BB	793670	7711753	100.00%	5.178%
3	6.740	6.705	6.869	VV	752280	7516774	97.47%	5.047%
4	7.352	7.302	7.475	BB	692518	6832671	88.60%	4.588%
5	8.005	7.960	8.139	BB	796415	7704821	99.91%	5.173%
6	8.201	8.144	8.272	BV	430213	4519240	58.60%	3.034%
7	8.300	8.272	8.412	VB	773593	7602127	98.58%	5.104%
8	9.078	9.002	9.234	BB	724789	7593219	98.46%	5.098%
9	10.465	10.379	10.512	BV	704297	7379729	95.69%	4.955%
10	10.541	10.512	10.755	VB	647346	7344304	95.24%	4.931%
11	11.236	11.172	11.317	BB	704623	7609409	98.67%	5.109%
12	12.270	12.234	12.410	PV	646673	7455312	96.67%	5.006%
13	12.562	12.519	12.615	BV	647073	7417138	96.18%	4.980%
14	14.434	14.364	14.452	BV	584665	6964194	90.31%	4.676%
15	14.475	14.452	14.644	VB	589498	7274381	94.33%	4.884%
16	15.983	15.930	15.996	BV	532011	6978240	90.49%	4.685%
17	16.015	15.996	16.135	VB	592968	7115728	92.27%	4.778%
18	16.357	16.297	16.462	BV	511495	6633881	86.02%	4.454%
19	17.724	17.690	17.739	BV	449892	5940391	77.03%	3.989%
20	17.760	17.739	17.935	VV	434204	7026106	91.11%	4.718%
21	17.977	17.935	18.170	VV	469618	6832759	88.60%	4.588%

Sum of corrected areas: 148935240

Aromatic EPH 021125.M Tue Feb 11 00:33:22 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.351	2836644	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.202	1780140	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.233	3179603	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	3122576	20.000 ug/ml
2)	T Naphthalene (C11.7)	5.693	3140580	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	3103501	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.003	3196723	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.296	3207497	20.000 ug/ml
8)	T Flouorene (C16.55)	9.076	3127465	20.000 ug/ml
9)	T Phenanthrene (C19.36)	10.463	2993262	20.000 ug/ml
10)	T Anthracene (C19.43)	10.540	3009407	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.267	3071055	20.000 ug/ml
13)	T Pyrene (C20.8)	12.558	3015302	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	14.429	2705035	20.000 ug/ml
15)	T Chrysene (C27.41)	14.469	3106970	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	15.976	2807258	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.006	3041925	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.354	2685830	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.718	2142662	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	17.759	3107681	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.966	2831461	20.000 ug/ml

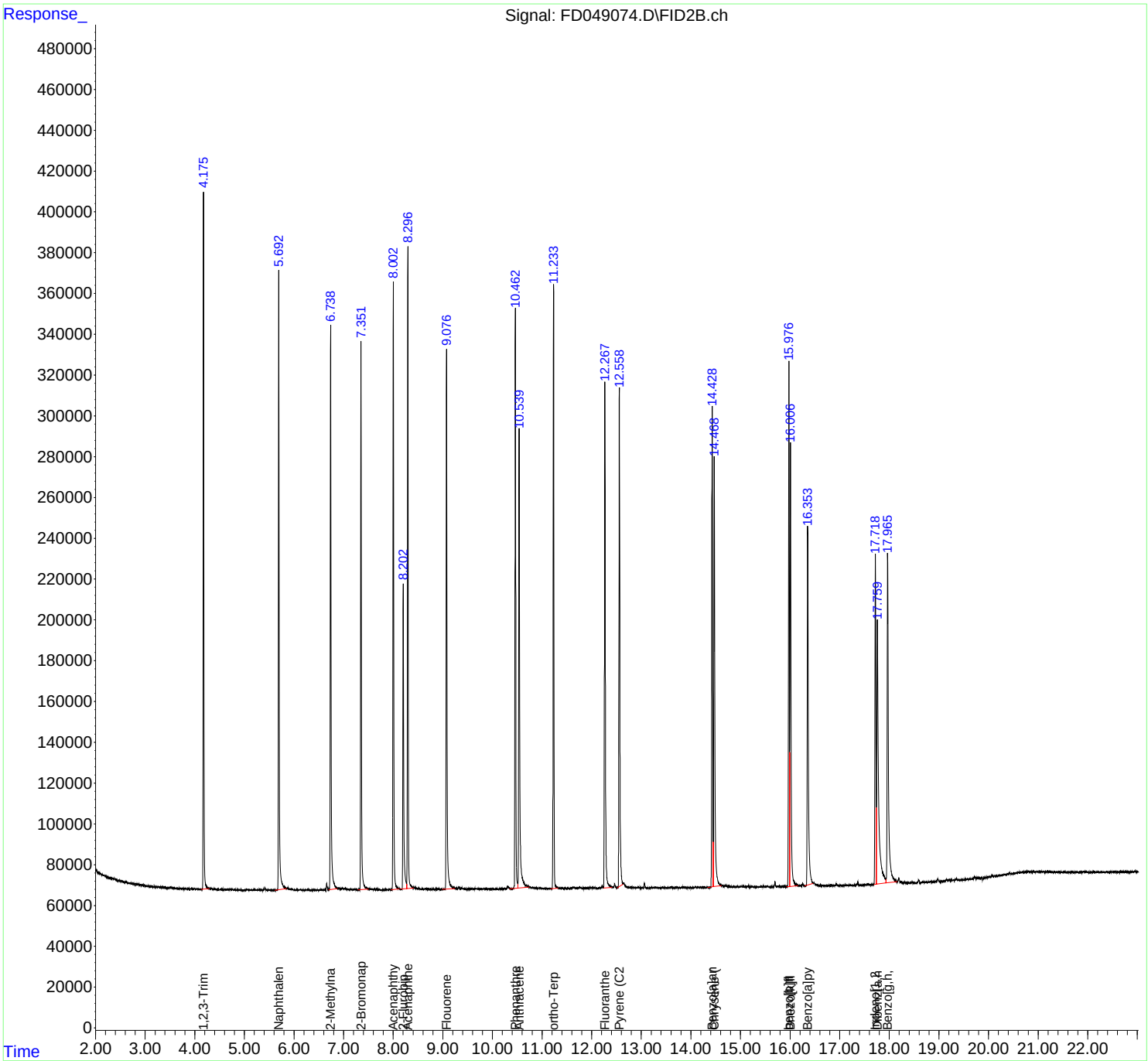
(f)=RT Delta > 1/2 Window (m)=manual int.

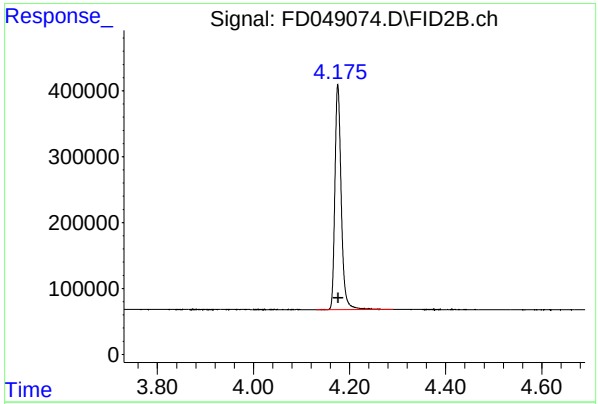
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

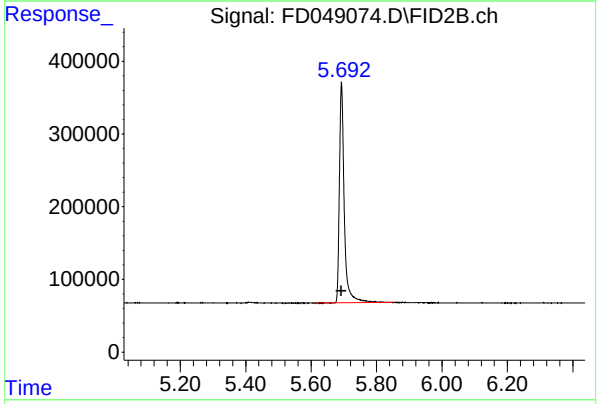




#1 1,2,3-Trimethylbenzene (C10.1)

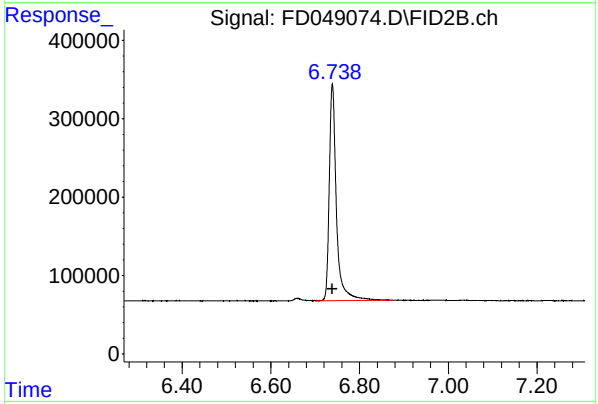
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3122576
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



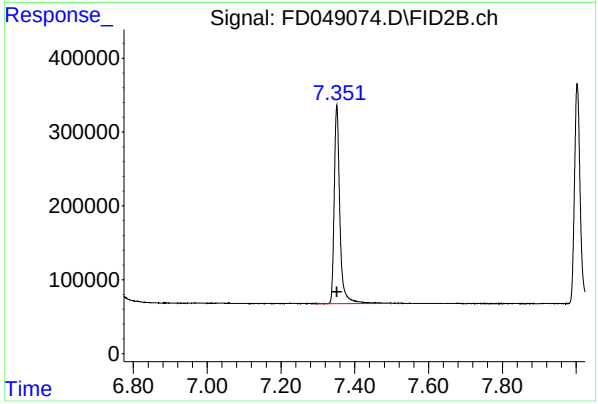
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 3140580
Conc: 20.00 ug/ml



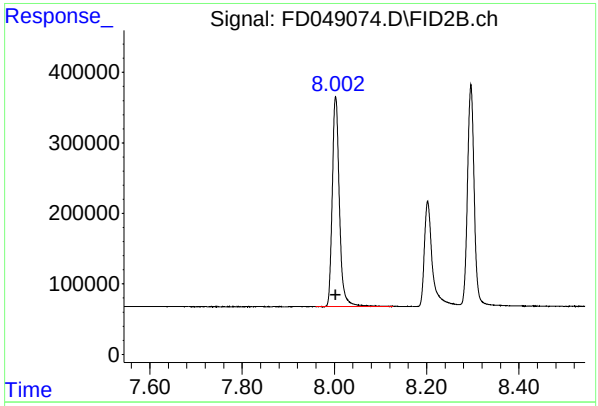
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 3103501
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

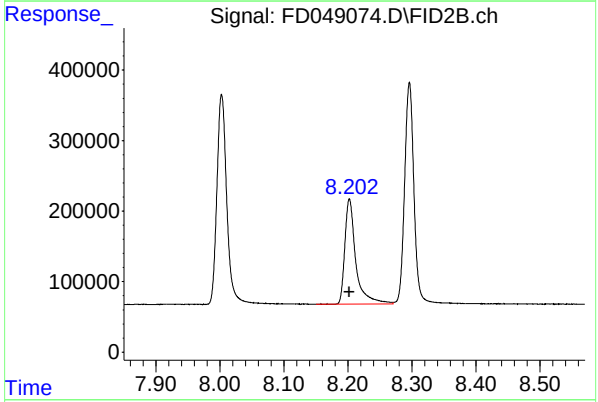
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 2836644
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

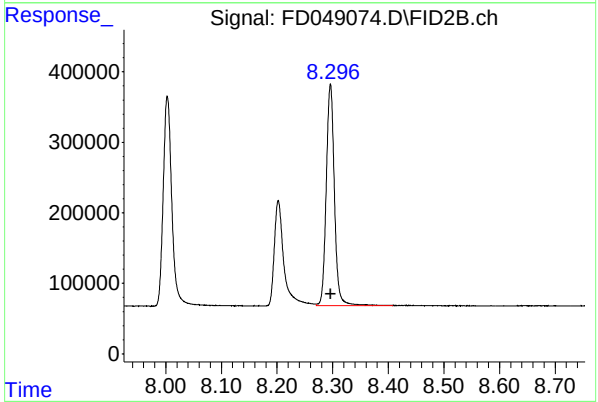
R.T.: 8.003 min
Delta R.T.: 0.000 min
Response: 3196723
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



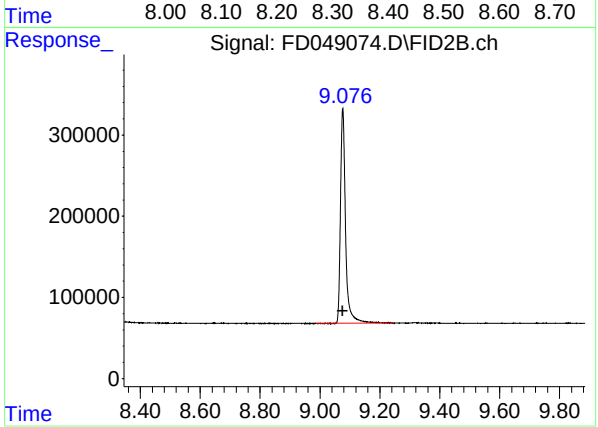
#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 1780140
Conc: 20.00 ug/ml



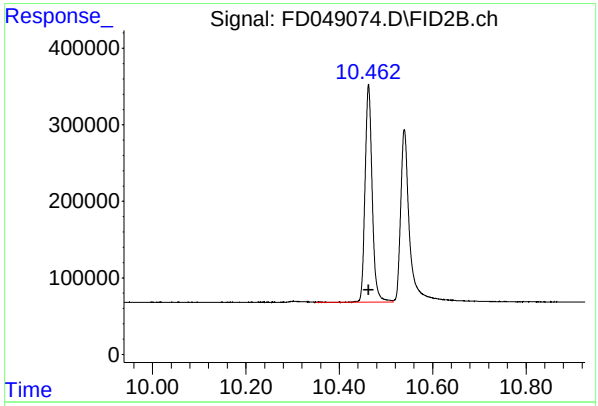
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: 0.000 min
Response: 3207497
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

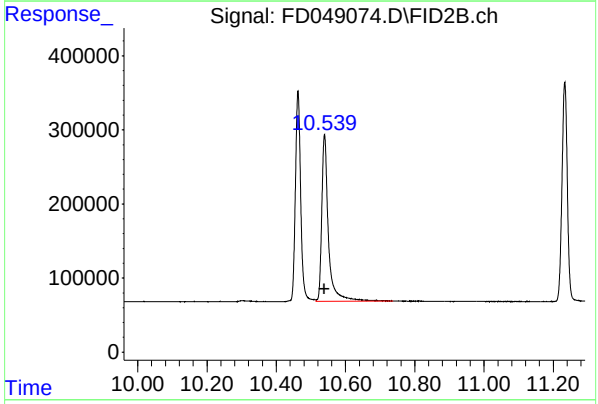
R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 3127465
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

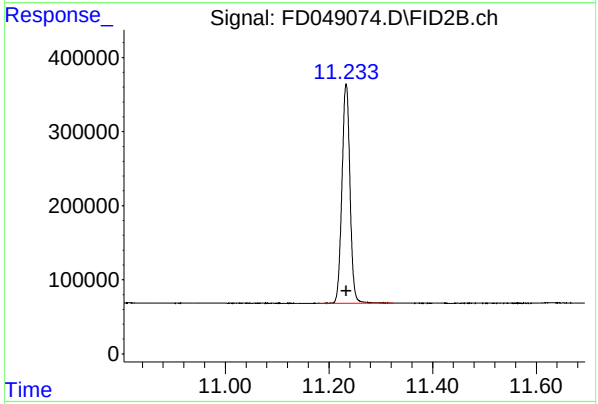
R.T.: 10.463 min
Delta R.T.: 0.000 min
Response: 2993262
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



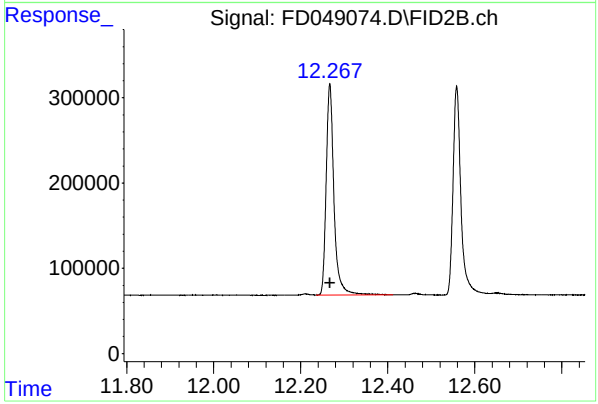
#10 Anthracene (C19.43)

R.T.: 10.540 min
Delta R.T.: 0.000 min
Response: 3009407
Conc: 20.00 ug/ml



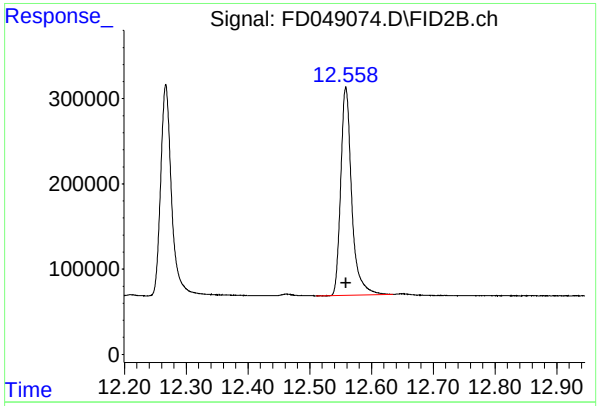
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3179603
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

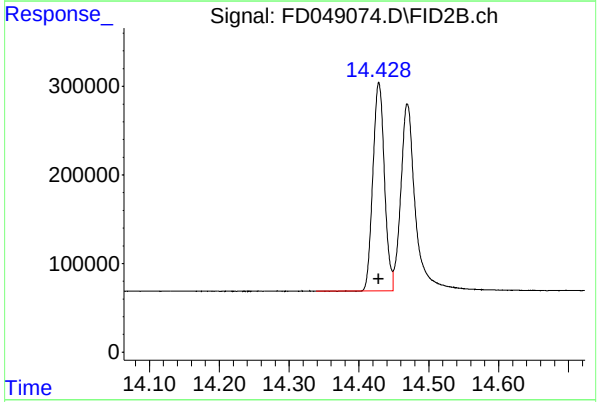
R.T.: 12.267 min
Delta R.T.: 0.000 min
Response: 3071055
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

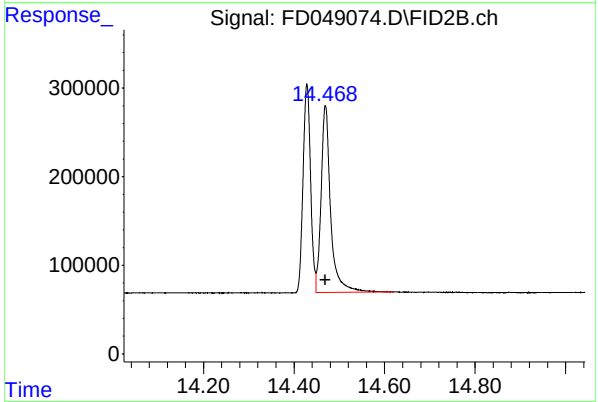
R.T.: 12.558 min
Delta R.T.: 0.000 min
Response: 3015302
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



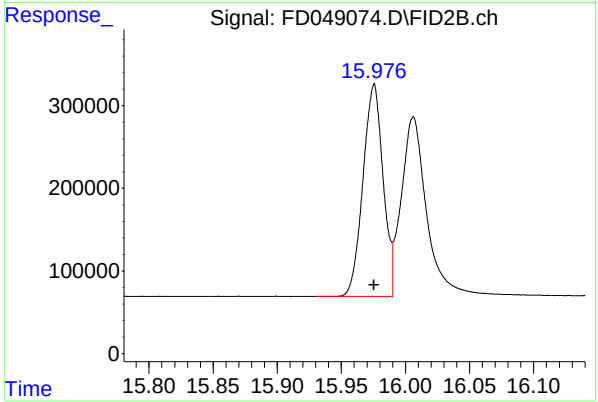
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.429 min
Delta R.T.: 0.000 min
Response: 2705035
Conc: 20.00 ug/ml



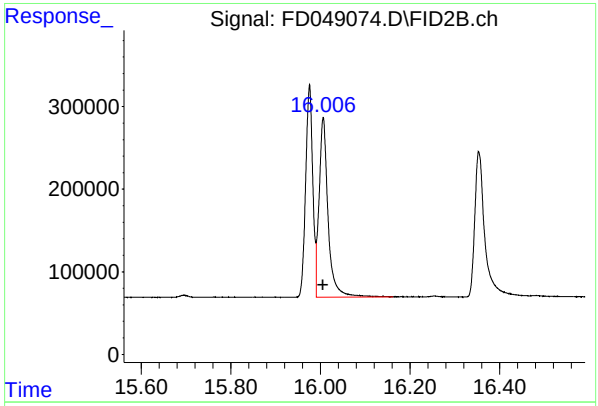
#15 Chrysene (C27.41)

R.T.: 14.469 min
Delta R.T.: 0.000 min
Response: 3106970
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

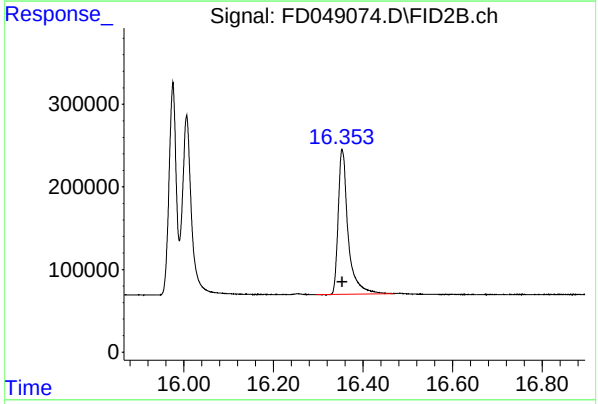
R.T.: 15.976 min
Delta R.T.: 0.000 min
Response: 2807258
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

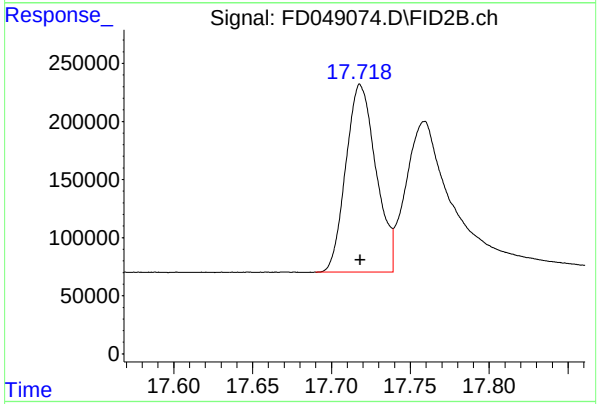
R.T.: 16.006 min
Delta R.T.: 0.000 min
Response: 3041925
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



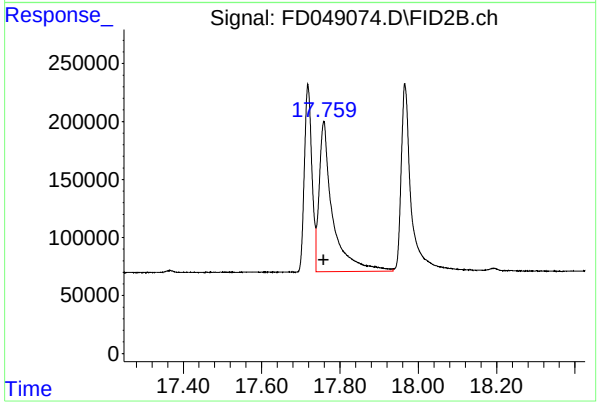
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: 0.000 min
Response: 2685830
Conc: 20.00 ug/ml



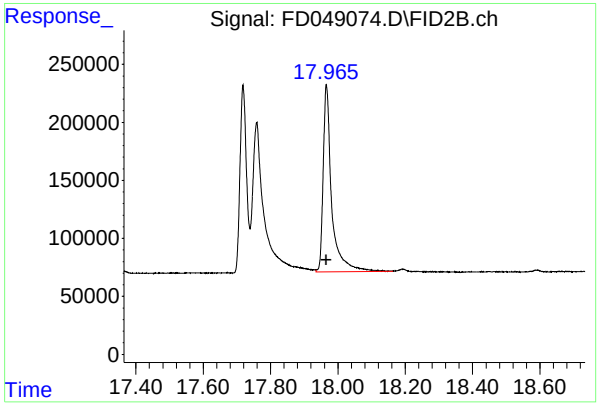
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: 0.000 min
Response: 2142662
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.759 min
Delta R.T.: 0.000 min
Response: 3107681
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.966 min
Delta R.T.: 0.000 mi
Response: 2831461
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.290	BB	341507	3122576	97.35%	5.101%
2	5.693	5.615	5.850	BB	302052	3140580	97.91%	5.131%
3	6.739	6.702	6.875	PV	276834	3103501	96.76%	5.070%
4	7.351	7.295	7.504	BB	268948	2836644	88.44%	4.634%
5	8.003	7.960	8.127	BB	296889	3196723	99.66%	5.222%
6	8.202	8.150	8.270	BV	149509	1780140	55.50%	2.908%
7	8.296	8.270	8.409	VB	315086	3207497	100.00%	5.240%
8	9.076	8.987	9.244	BB	264582	3127465	97.50%	5.109%
9	10.463	10.350	10.515	BV	283529	2993262	93.32%	4.890%
10	10.540	10.515	10.737	VB	225555	3009407	93.82%	4.916%
11	11.233	11.175	11.324	BB	295969	3179603	99.13%	5.194%
12	12.267	12.235	12.412	PB	247743	3071055	95.75%	5.017%
13	12.558	12.510	12.635	PV	244074	3015302	94.01%	4.926%
14	14.429	14.339	14.449	BV	235372	2705035	84.33%	4.419%
15	14.469	14.449	14.619	VB	210710	3106970	96.87%	5.076%
16	15.976	15.930	15.990	BV	256347	2807258	87.52%	4.586%
17	16.006	15.990	16.162	VB	217937	3041925	94.84%	4.969%
18	16.354	16.295	16.467	BV	175364	2685830	83.74%	4.388%
19	17.718	17.690	17.739	BV	161338	2142662	66.80%	3.500%
20	17.759	17.739	17.935	VV	129645	3107681	96.89%	5.077%
21	17.966	17.935	18.164	VV	161614	2831461	88.28%	4.626%

Sum of corrected areas: 61212576

Aromatic EPH 021125.M Tue Feb 11 00:33:40 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.353	1471043	10.492 ug/ml
Spiked Amount	50.000		Recovery =	20.98%
6) S	2-Flurobiphenyl (SURR)	8.207	875829	9.805 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.61%
11) S	ortho-Terphenyl (SURR)	11.234	1694149	10.763 ug/ml
Spiked Amount	50.000		Recovery =	21.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.177	1656548	10.685 ug/ml
2) T	Naphthalene (C11.7)	5.695	1661529	10.548 ug/ml
3) T	2-Methylnaphthalene (...	6.741	1621317	10.517 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	1694814	10.673 ug/ml
7) T	Acenaphthene (C15.5)	8.297	1725833	10.888 ug/ml
8) T	Flouorene (C16.55)	9.079	1621856	10.458 ug/ml
9) T	Phenanthrene (C19.36)	10.465	1539045	10.316 ug/ml
10) T	Anthracene (C19.43)	10.542	1567931	10.490 ug/ml
12) T	Fluoranthene (C21.85)	12.271	1592182	10.481 ug/ml
13) T	Pyrene (C20.8)	12.562	1566919	10.430 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	1271690	9.418 ug/ml
15) T	Chrysene (C27.41)	14.471	1725375	11.239 ug/ml
16) T	benzo[b]fluoranthene ...	15.977	1376748	9.922 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.009	1686985	11.222 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	1358701	10.188 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	1005197	8.910 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	1692264	11.355 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	1516030	10.775 ug/ml

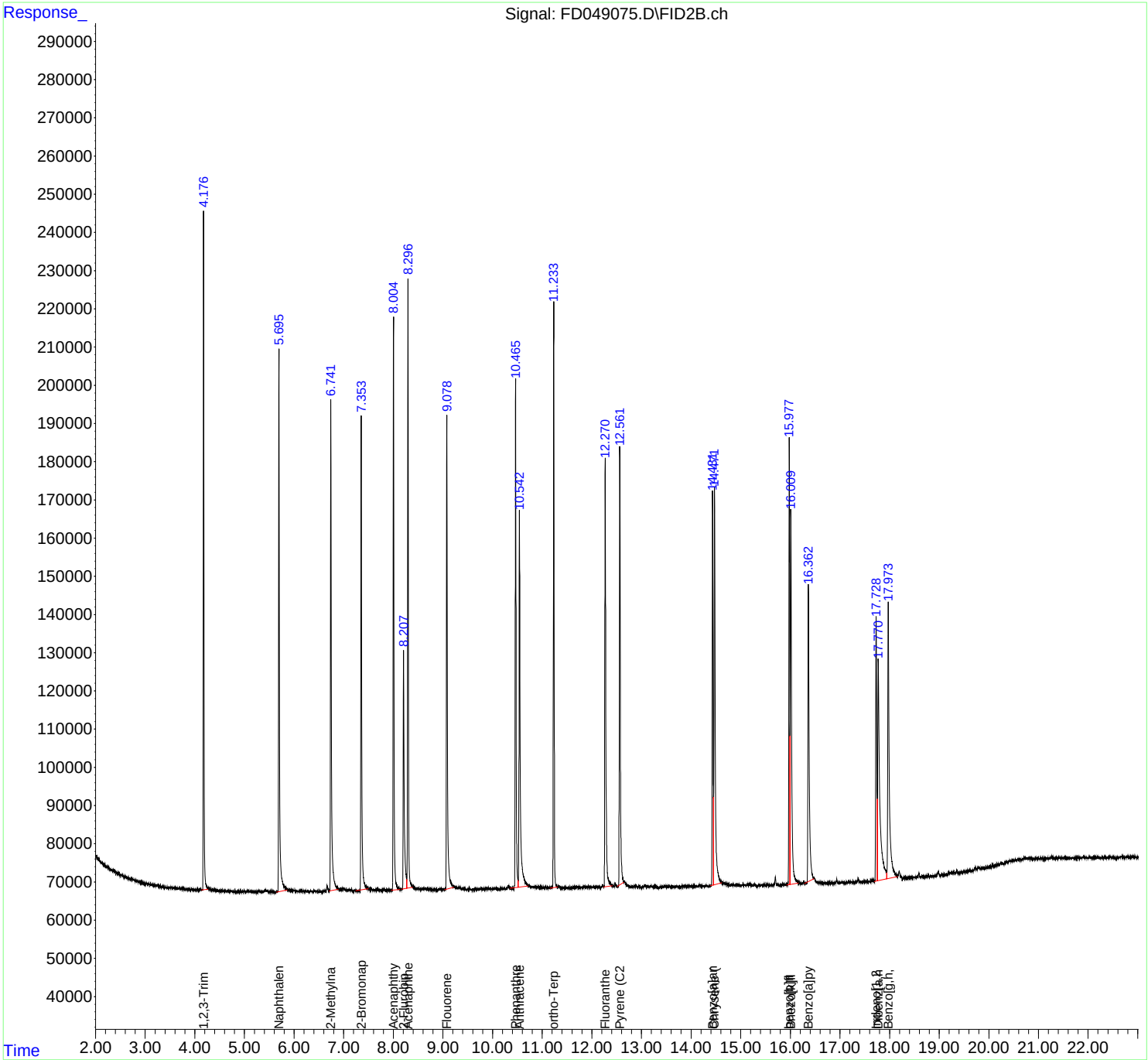
(f)=RT Delta > 1/2 Window (m)=manual int.

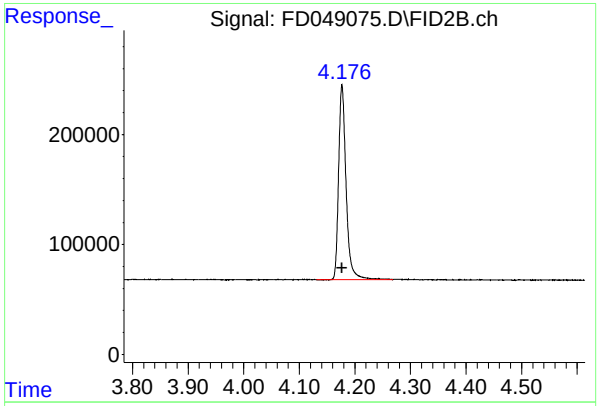
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

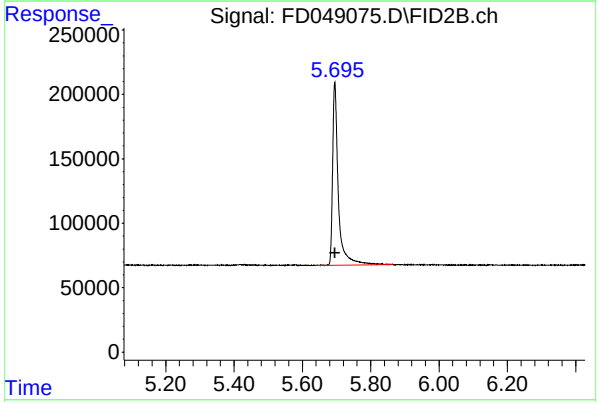




#1 1,2,3-Trimethylbenzene (C10.1)

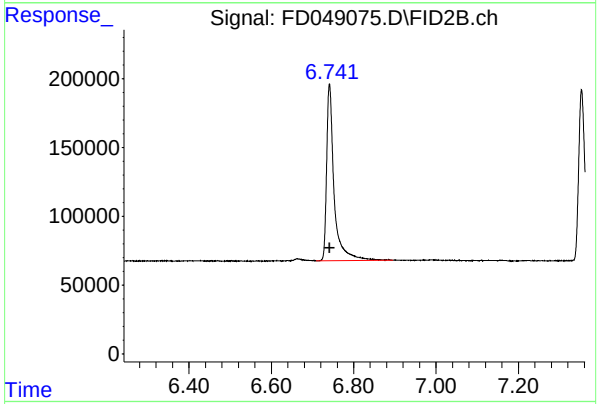
R.T.: 4.177 min
Delta R.T.: 0.000 min
Response: 1656548
Conc: 10.69 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



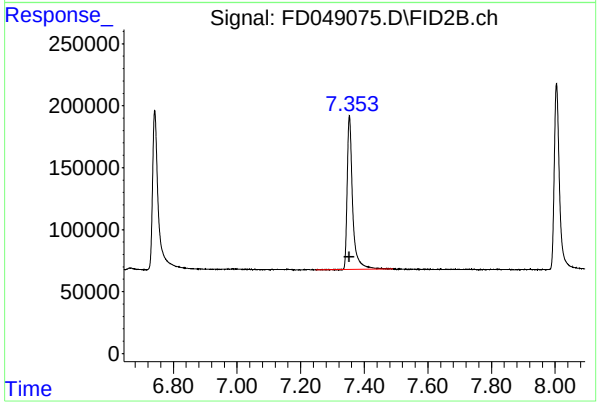
#2 Naphthalene (C11.7)

R.T.: 5.695 min
Delta R.T.: 0.000 min
Response: 1661529
Conc: 10.55 ug/ml



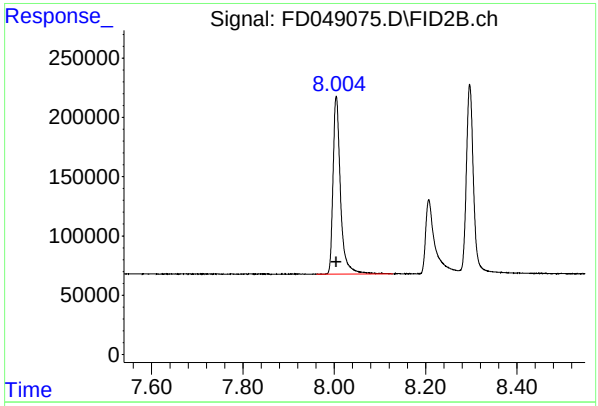
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.741 min
Delta R.T.: 0.000 min
Response: 1621317
Conc: 10.52 ug/ml



#4 2-Bromonaphthalene (SURR)

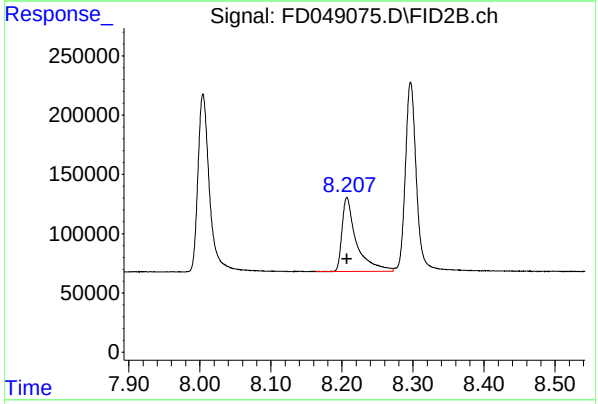
R.T.: 7.353 min
Delta R.T.: 0.000 min
Response: 1471043
Conc: 10.49 ug/ml



#5 Acenaphthylene (C15.06)

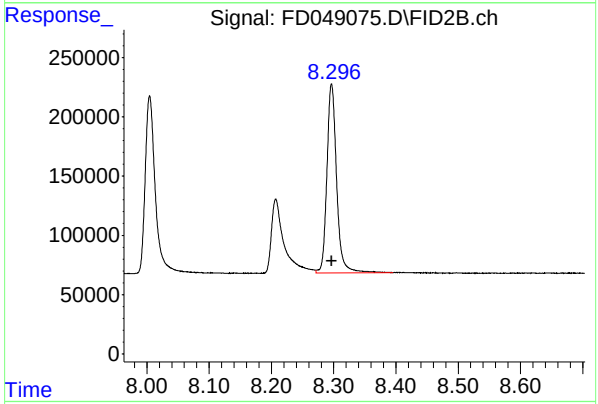
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 1694814
Conc: 10.67 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



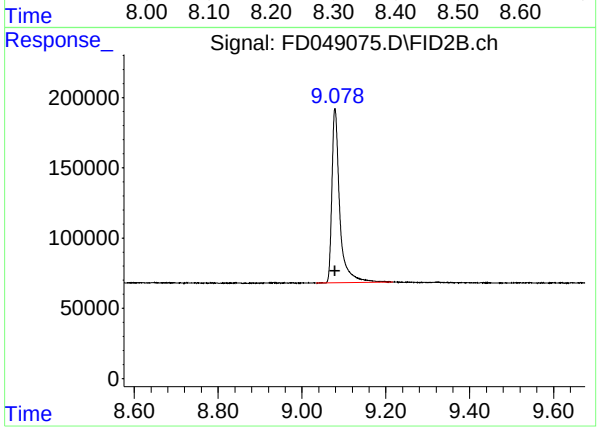
#6 2-Flurobiphenyl (SURR)

R.T.: 8.207 min
Delta R.T.: 0.000 min
Response: 875829
Conc: 9.81 ug/ml



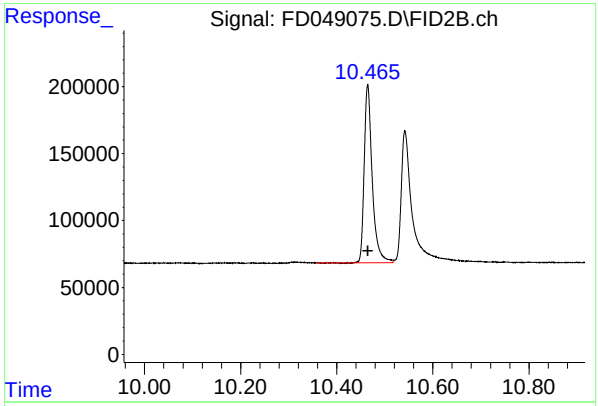
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 1725833
Conc: 10.89 ug/ml



#8 Flouorene (C16.55)

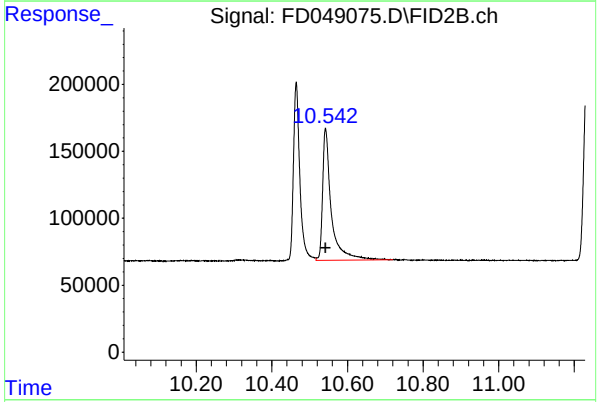
R.T.: 9.079 min
Delta R.T.: 0.000 min
Response: 1621856
Conc: 10.46 ug/ml



#9 Phenanthrene (C19.36)

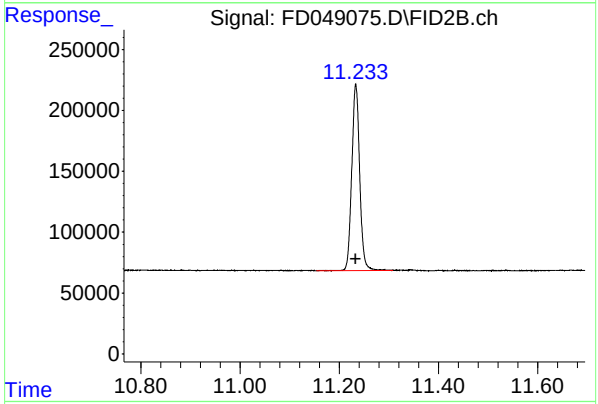
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 1539045
Conc: 10.32 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



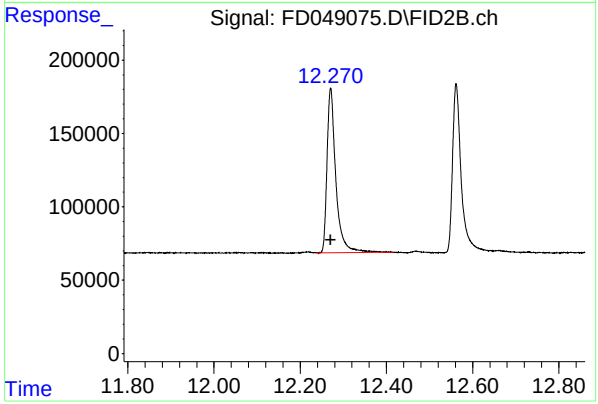
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.000 min
Response: 1567931
Conc: 10.49 ug/ml



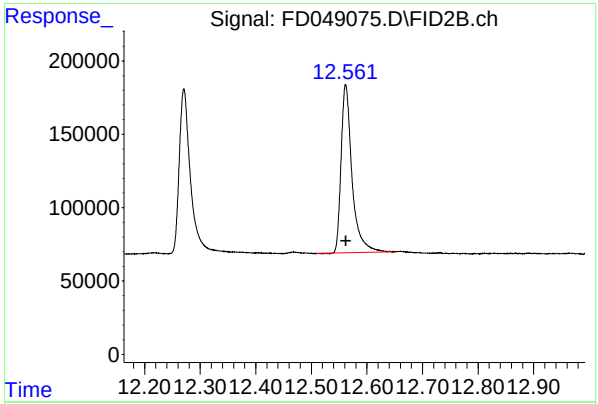
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 1694149
Conc: 10.76 ug/ml



#12 Fluoranthene (C21.85)

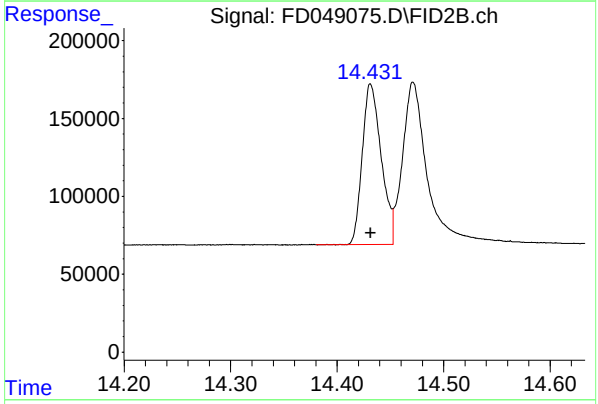
R.T.: 12.271 min
Delta R.T.: 0.000 min
Response: 1592182
Conc: 10.48 ug/ml



#13 Pyrene (C20.8)

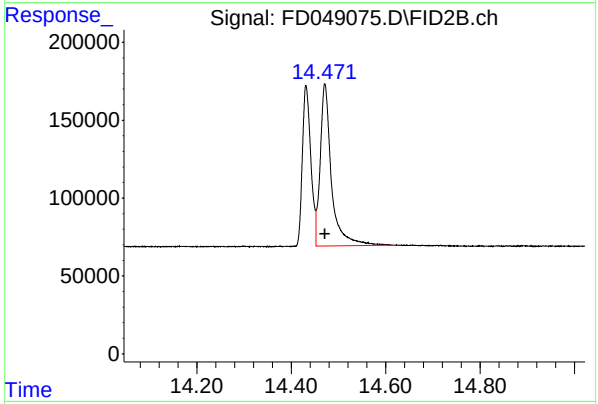
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 1566919
Conc: 10.43 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



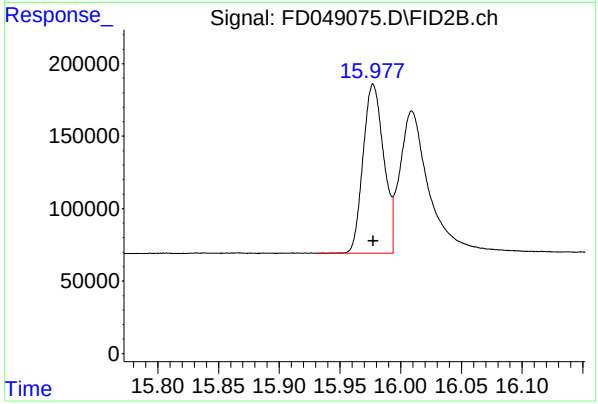
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.000 min
Response: 1271690
Conc: 9.42 ug/ml



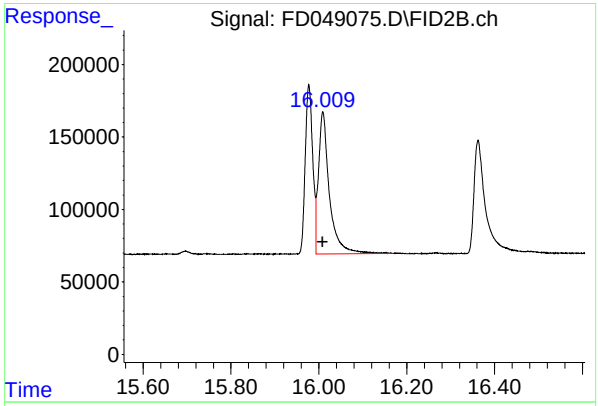
#15 Chrysene (C27.41)

R.T.: 14.471 min
Delta R.T.: 0.000 min
Response: 1725375
Conc: 11.24 ug/ml



#16 benzo[b]fluoranthene (C30.41)

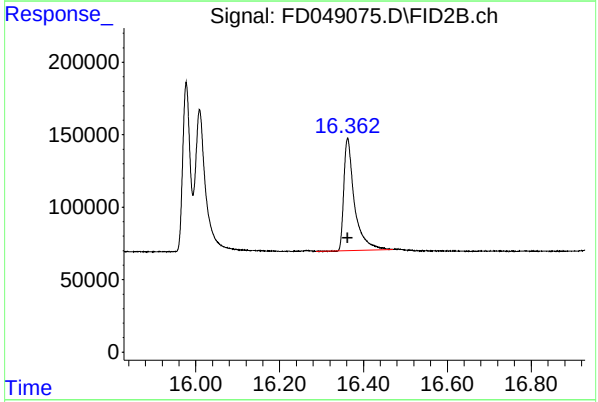
R.T.: 15.977 min
Delta R.T.: 0.000 min
Response: 1376748
Conc: 9.92 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

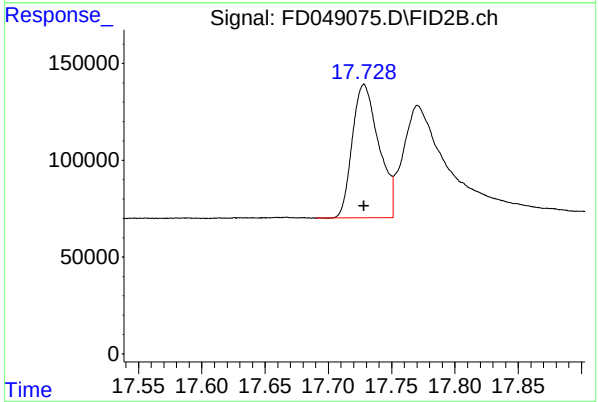
R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 1686985
Conc: 11.22 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



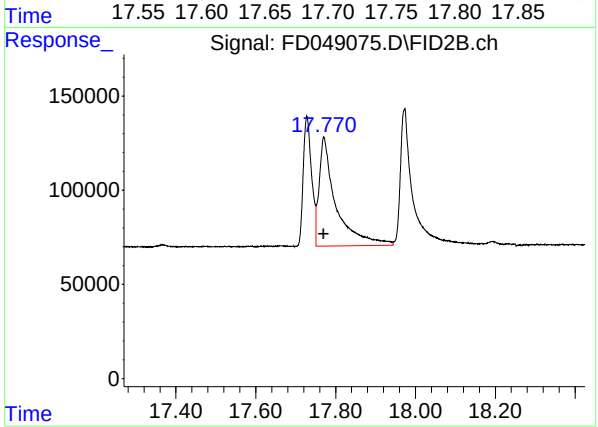
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.000 min
Response: 1358701
Conc: 10.19 ug/ml



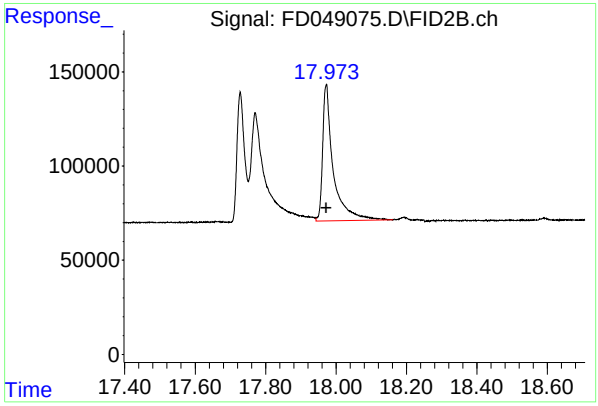
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.000 min
Response: 1005197
Conc: 8.91 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.771 min
Delta R.T.: 0.000 min
Response: 1692264
Conc: 11.35 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.973 min
Delta R.T.: 0.000 mi
Response: 1516030
Conc: 10.78 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.177	4.130	4.269	BV	177205	1656548	95.99%	5.189%
2	5.695	5.640	5.865	BB	141933	1661529	96.27%	5.205%
3	6.741	6.709	6.895	BB	128539	1621317	93.94%	5.079%
4	7.353	7.249	7.490	BB	124068	1471043	85.24%	4.608%
5	8.005	7.960	8.129	BB	150103	1694814	98.20%	5.309%
6	8.207	8.164	8.272	BV	62427	875829	50.75%	2.744%
7	8.297	8.272	8.395	VB	159429	1725833	100.00%	5.406%
8	9.079	9.034	9.217	BB	124112	1621856	93.98%	5.081%
9	10.465	10.357	10.517	BV	133260	1539045	89.18%	4.821%
10	10.542	10.517	10.720	VB	98455	1567931	90.85%	4.912%
11	11.234	11.154	11.309	BB	153221	1694149	98.16%	5.307%
12	12.271	12.237	12.415	BB	112182	1592182	92.26%	4.988%
13	12.562	12.509	12.647	BV	114740	1566919	90.79%	4.909%
14	14.431	14.380	14.452	BV	102861	1271690	73.69%	3.984%
15	14.471	14.452	14.615	VB	104040	1725375	99.97%	5.405%
16	15.977	15.930	15.994	BV	116644	1376748	79.77%	4.313%
17	16.009	15.994	16.169	VB	98055	1686985	97.75%	5.285%
18	16.362	16.287	16.470	BV	77646	1358701	78.73%	4.256%
19	17.728	17.690	17.751	BV	69162	1005197	58.24%	3.149%
20	17.771	17.751	17.944	VV	57989	1692264	98.05%	5.301%
21	17.973	17.944	18.162	VV	72731	1516030	87.84%	4.749%
			Sum of corrected areas:			31921984		

Aromatic EPH 021125.M Tue Feb 11 00:33:53 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 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...	7.358	773691	5.406 ug/ml
Spiked Amount	50.000		Recovery =	10.81%
6) S	2-Flurobiphenyl (SURR)	8.218	411369	4.679 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.36%
11) S	ortho-Terphenyl (SURR)	11.234	896262	5.540 ug/ml
Spiked Amount	50.000		Recovery =	11.08%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.178	880662	5.530 ug/ml
2) T	Naphthalene (C11.7)	5.699	819370	5.160 ug/ml
3) T	2-Methylnaphthalene (...	6.746	809055	5.196 ug/ml
5) T	Acenaphthylene (C15.06)	8.007	889357	5.469 ug/ml
7) T	Acenaphthene (C15.5)	8.298	942609	5.730 ug/ml
8) T	Flouorene (C16.55)	9.085	839593	5.326 ug/ml
9) T	Phenanthrene (C19.36)	10.472	783663	5.200 ug/ml
10) T	Anthracene (C19.43)	10.552	786469	5.207 ug/ml
12) T	Fluoranthene (C21.85)	12.279	819618	5.311 ug/ml
13) T	Pyrene (C20.8)	12.567	846750	5.496 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	584303	4.447 ug/ml
15) T	Chrysene (C27.41)	14.479	971932	6.011 ug/ml
16) T	benzo[b]fluoranthene ...	15.986	664702	4.831 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.019	942068	5.965 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	726171	5.350 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.745	475672	4.353 ug/ml
20) T	Dibenz[a,h]anthracene...	17.788	897828	5.787 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	809816	5.587 ug/ml

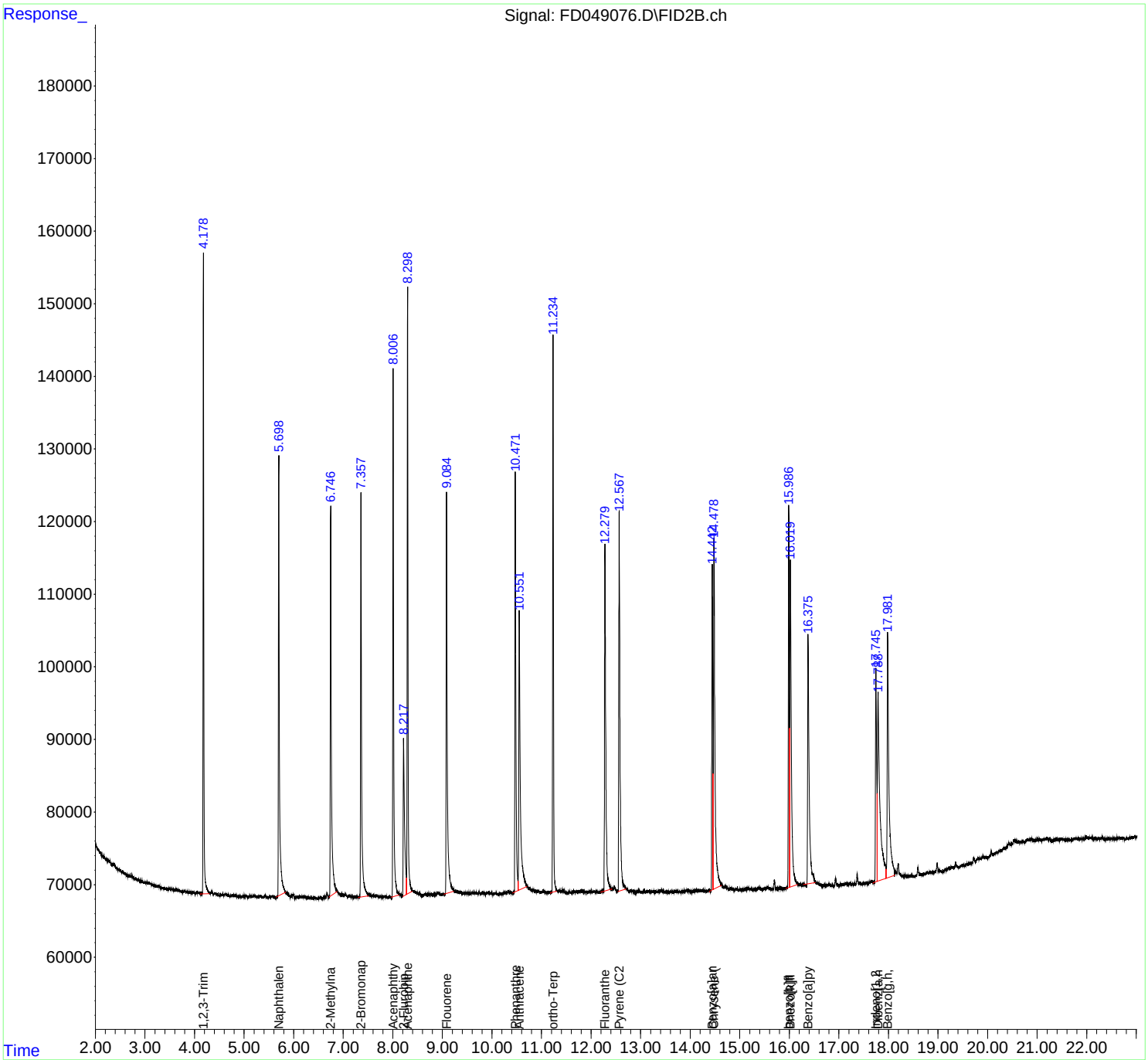
(f)=RT Delta > 1/2 Window (m)=manual int.

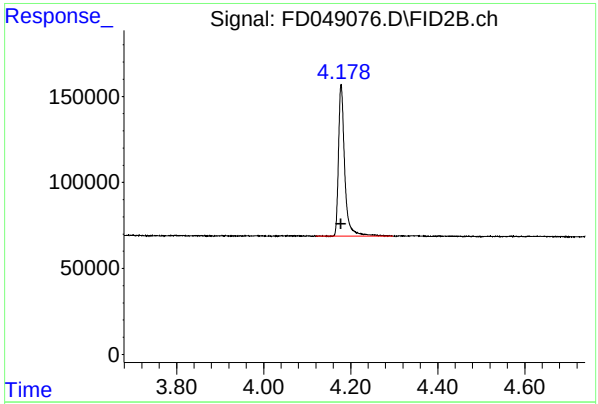
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

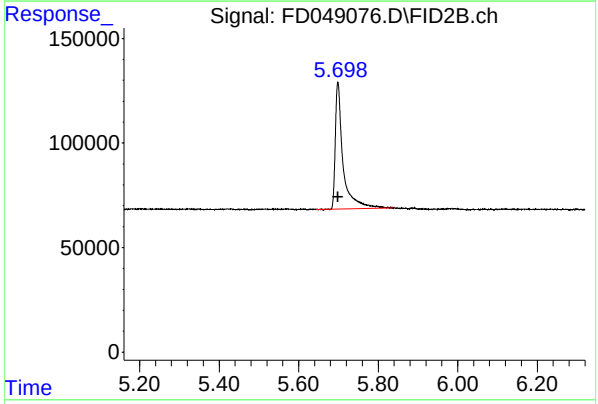




#1 1,2,3-Trimethylbenzene (C10.1)

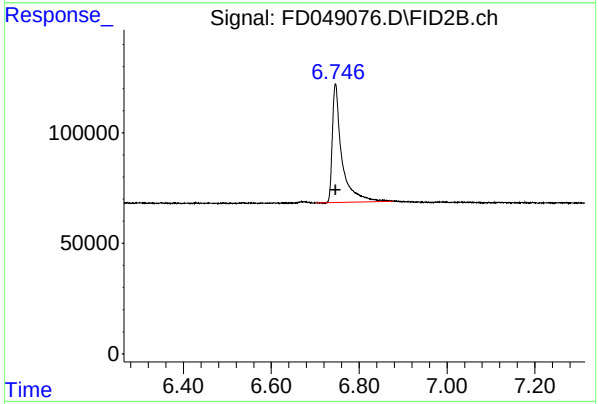
R.T.: 4.178 min
Delta R.T.: 0.000 min
Response: 880662
Conc: 5.53 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



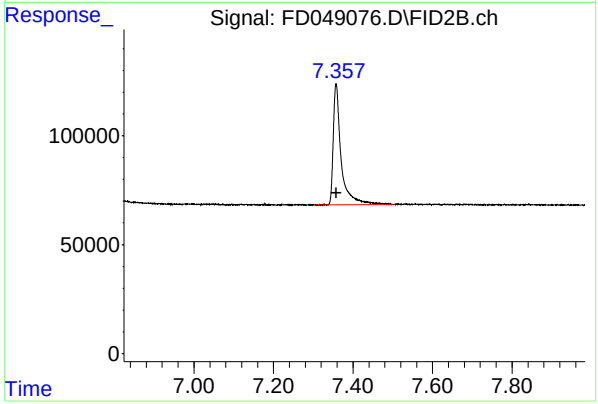
#2 Naphthalene (C11.7)

R.T.: 5.699 min
Delta R.T.: 0.000 min
Response: 819370
Conc: 5.16 ug/ml



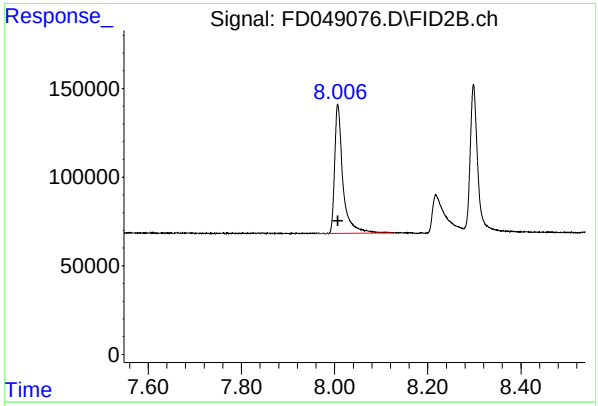
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.746 min
Delta R.T.: 0.000 min
Response: 809055
Conc: 5.20 ug/ml



#4 2-Bromonaphthalene (SURR)

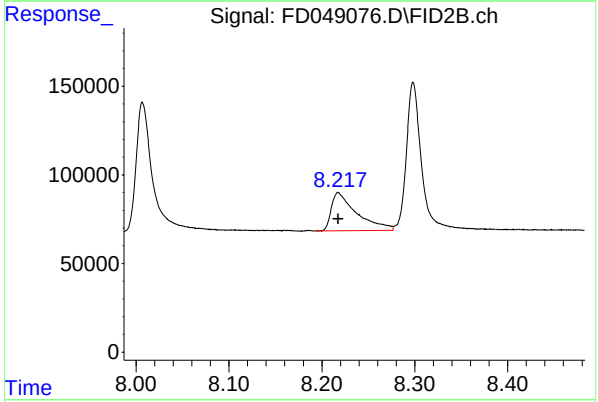
R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 773691
Conc: 5.41 ug/ml



#5 Acenaphthylene (C15.06)

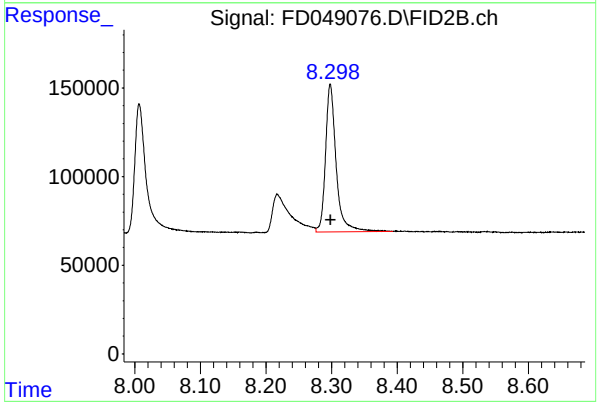
R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 889357
Conc: 5.47 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



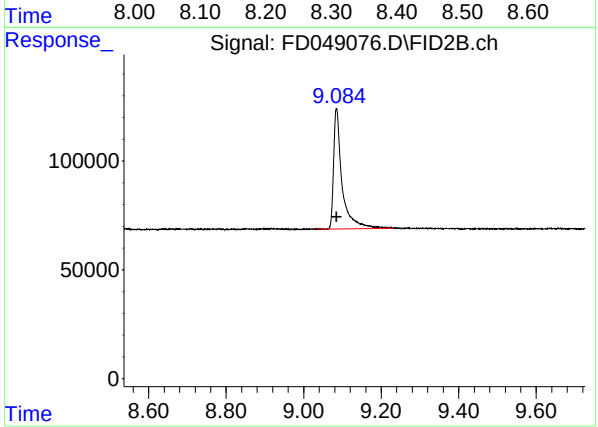
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 411369
Conc: 4.68 ug/ml



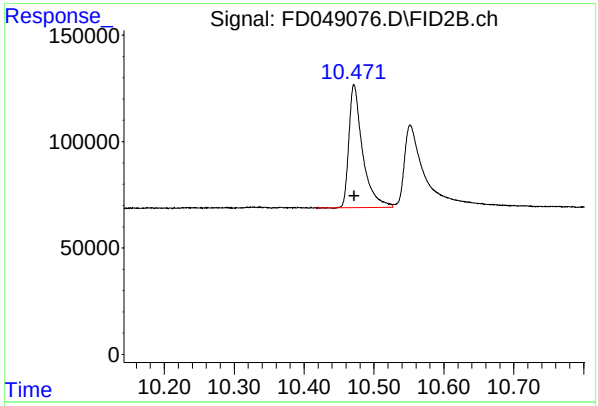
#7 Acenaphthene (C15.5)

R.T.: 8.298 min
Delta R.T.: 0.000 min
Response: 942609
Conc: 5.73 ug/ml



#8 Flouorene (C16.55)

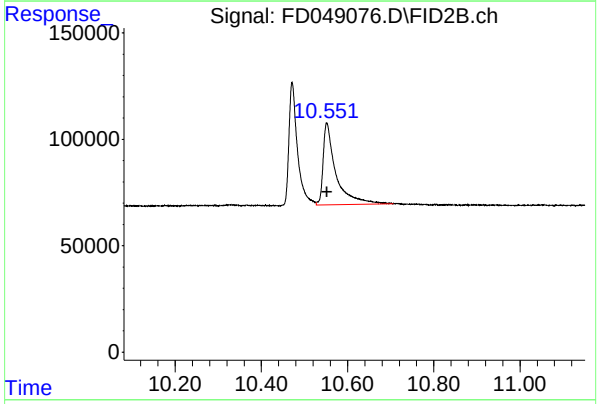
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 839593
Conc: 5.33 ug/ml



#9 Phenanthrene (C19.36)

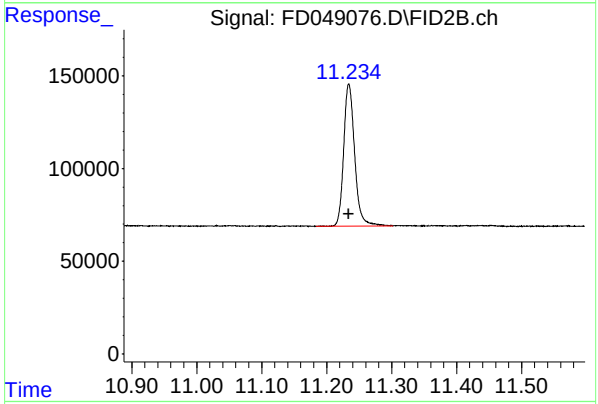
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 783663
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



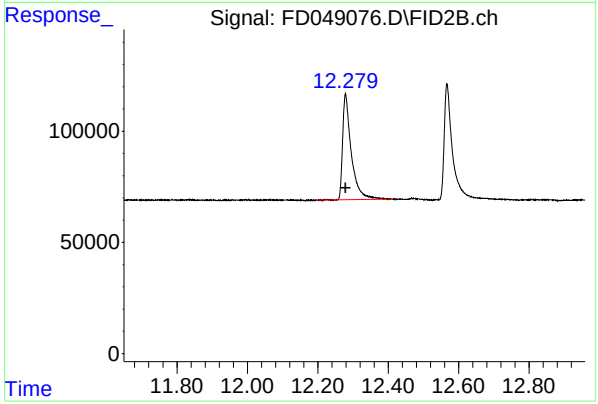
#10 Anthracene (C19.43)

R.T.: 10.552 min
Delta R.T.: 0.000 min
Response: 786469
Conc: 5.21 ug/ml



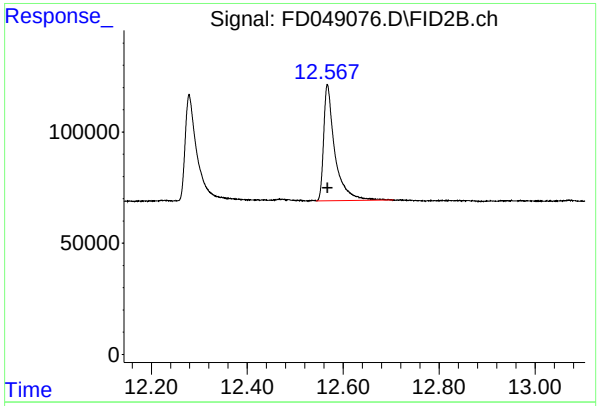
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 896262
Conc: 5.54 ug/ml



#12 Fluoranthene (C21.85)

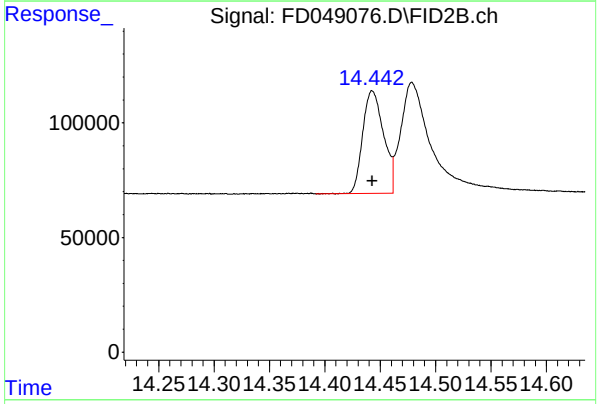
R.T.: 12.279 min
Delta R.T.: 0.000 min
Response: 819618
Conc: 5.31 ug/ml



#13 Pyrene (C20.8)

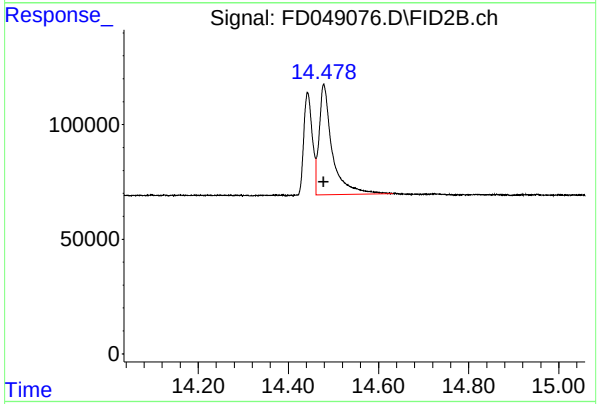
R.T.: 12.567 min
Delta R.T.: 0.000 min
Response: 846750
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



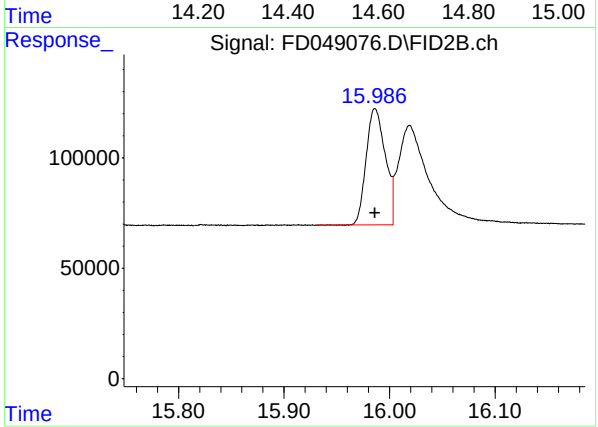
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 584303
Conc: 4.45 ug/ml



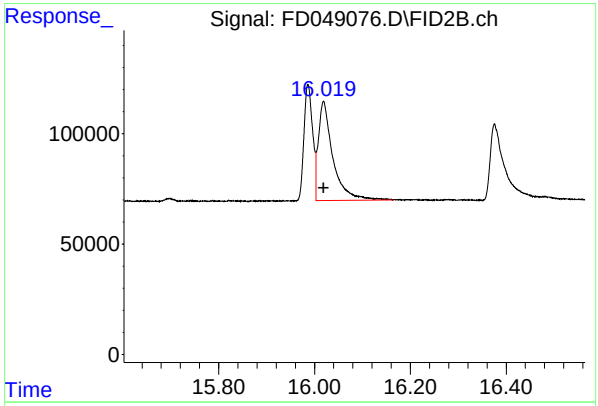
#15 Chrysene (C27.41)

R.T.: 14.479 min
Delta R.T.: 0.000 min
Response: 971932
Conc: 6.01 ug/ml



#16 benzo[b]fluoranthene (C30.41)

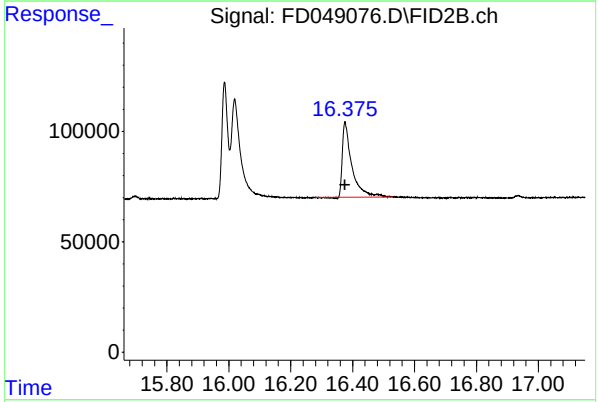
R.T.: 15.986 min
Delta R.T.: 0.000 min
Response: 664702
Conc: 4.83 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

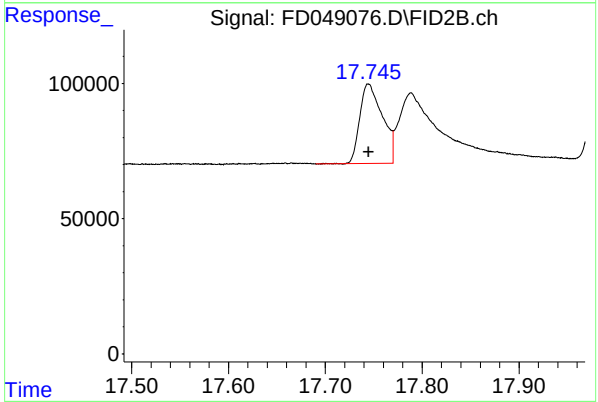
R.T.: 16.019 min
Delta R.T.: 0.000 min
Response: 942068
Conc: 5.96 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



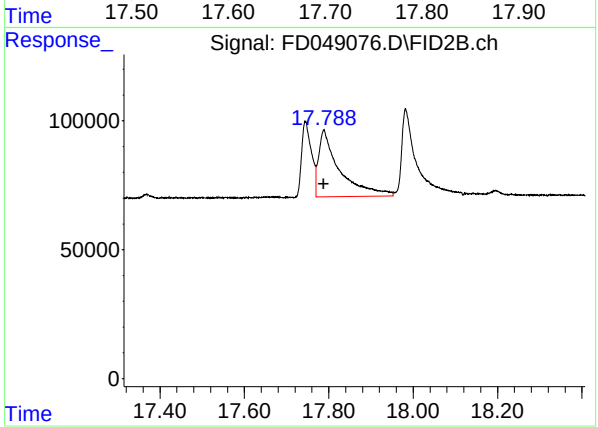
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.376 min
Delta R.T.: 0.000 min
Response: 726171
Conc: 5.35 ug/ml



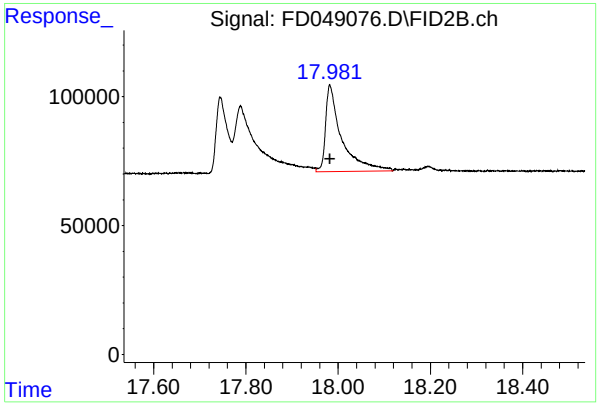
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.745 min
Delta R.T.: 0.000 min
Response: 475672
Conc: 4.35 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.788 min
Delta R.T.: 0.000 min
Response: 897828
Conc: 5.79 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.982 min
Delta R.T.: 0.000 mi
Response: 809816
Conc: 5.59 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.178	4.120	4.297	BB	88104	880662	90.61%	5.314%
2	5.699	5.644	5.837	BB	60647	819370	84.30%	4.945%
3	6.746	6.702	6.877	BB	53740	809055	83.24%	4.882%
4	7.358	7.307	7.500	BV	55653	773691	79.60%	4.669%
5	8.007	7.960	8.125	BB	72554	889357	91.50%	5.367%
6	8.218	8.194	8.276	PV	21681	411369	42.32%	2.482%
7	8.298	8.276	8.394	VB	83456	942609	96.98%	5.688%
8	9.085	9.032	9.230	BB	55303	839593	86.38%	5.067%
9	10.472	10.417	10.527	BV	57501	783663	80.63%	4.729%
10	10.552	10.527	10.705	VB	38447	786469	80.92%	4.746%
11	11.234	11.184	11.302	BB	76762	896262	92.21%	5.409%
12	12.279	12.195	12.414	BB	47695	819618	84.33%	4.946%
13	12.567	12.543	12.704	PB	52249	846750	87.12%	5.110%
14	14.443	14.392	14.461	BV	44649	584303	60.12%	3.526%
15	14.479	14.461	14.632	VB	48318	971932	100.00%	5.865%
16	15.986	15.930	16.003	BV	52690	664702	68.39%	4.011%
17	16.019	16.003	16.164	VB	44953	942068	96.93%	5.685%
18	16.376	16.282	16.530	BB	34288	726171	74.71%	4.382%
19	17.745	17.690	17.770	BV	29384	475672	48.94%	2.871%
20	17.788	17.770	17.952	VV	26033	897828	92.38%	5.418%
21	17.982	17.952	18.119	VV	33694	809816	83.32%	4.887%
			Sum of corrected areas:			16570960		

Aromatic EPH 021125.M Tue Feb 11 00:34:06 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	2822907	19.726 ug/ml
Spiked Amount	50.000		Recovery =	39.45%
6) S	2-Flurobiphenyl (SURR)	8.203	1781261	20.262 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.52%
11) S	ortho-Terphenyl (SURR)	11.233	3178458	19.647 ug/ml
Spiked Amount	50.000		Recovery =	39.29%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3134755	19.684 ug/ml
2) T	Naphthalene (C11.7)	5.693	3146803	19.818 ug/ml
3) T	2-Methylnaphthalene (...	6.739	3087751	19.832 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3188327	19.608 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3203234	19.472 ug/ml
8) T	Flouorene (C16.55)	9.076	3106009	19.702 ug/ml
9) T	Phenanthrene (C19.36)	10.462	2995357	19.876 ug/ml
10) T	Anthracene (C19.43)	10.539	3001671	19.875 ug/ml
12) T	Fluoranthene (C21.85)	12.266	3059686	19.828 ug/ml
13) T	Pyrene (C20.8)	12.559	3015618	19.575 ug/ml
14) T	Benzo[a]anthracene (C...	14.428	2707067	20.603 ug/ml
15) T	Chrysene (C27.41)	14.470	3142097	19.433 ug/ml
16) T	benzo[b]fluoranthene ...	15.976	2807062	20.401 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.007	3031459	19.193 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.354	2694826	19.853 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.718	2162922	19.793 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.759	3098291	19.971 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.967	2849147	19.656 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

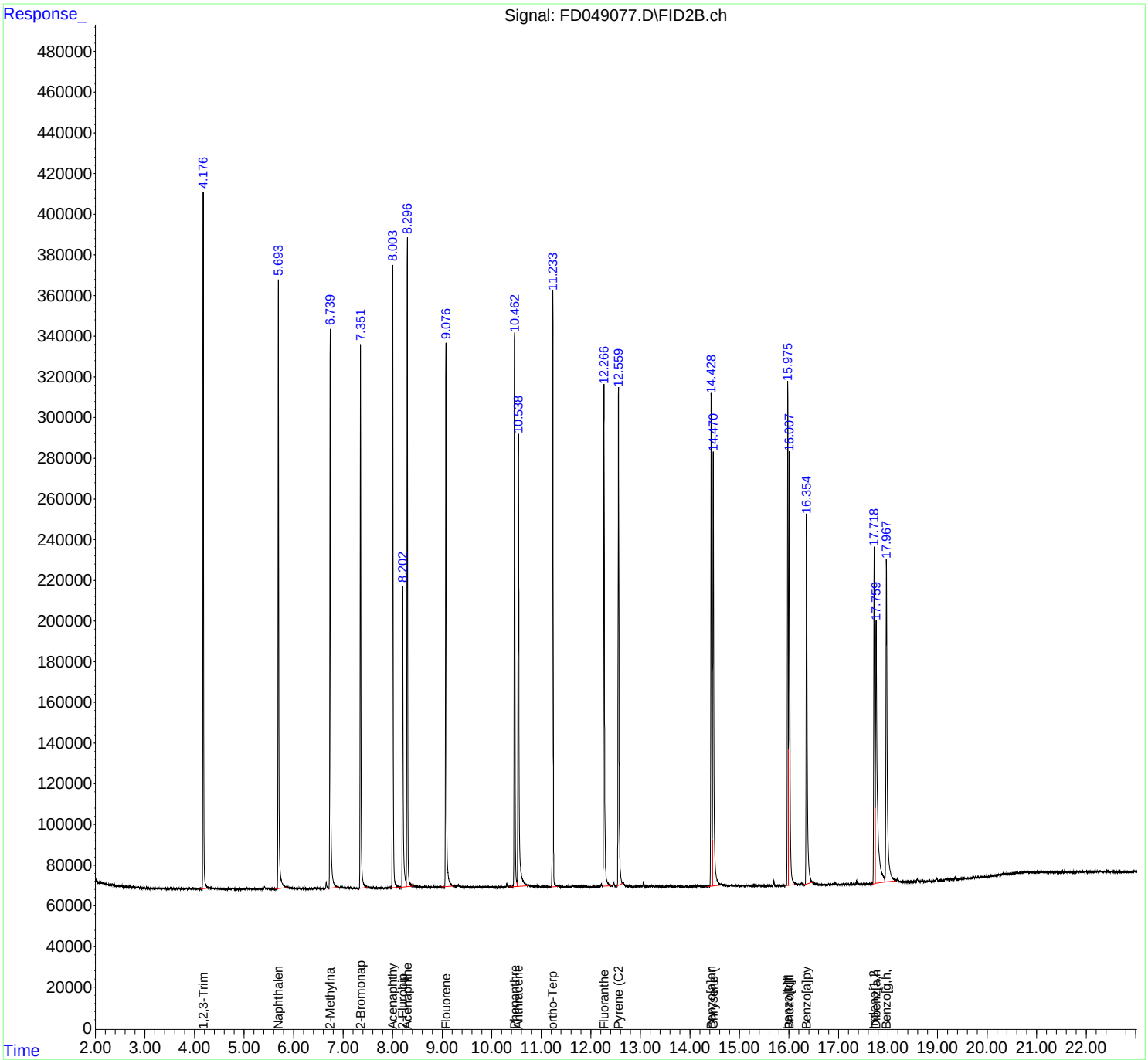
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

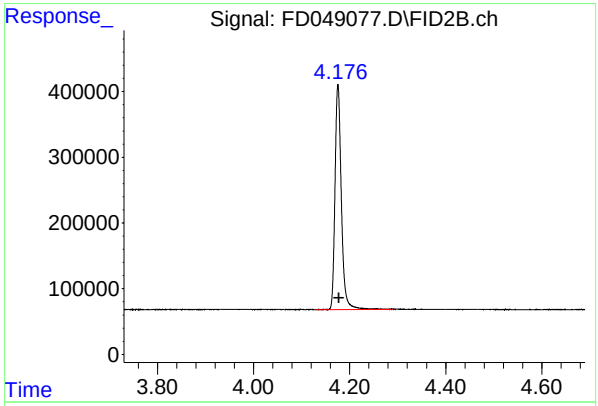
Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025





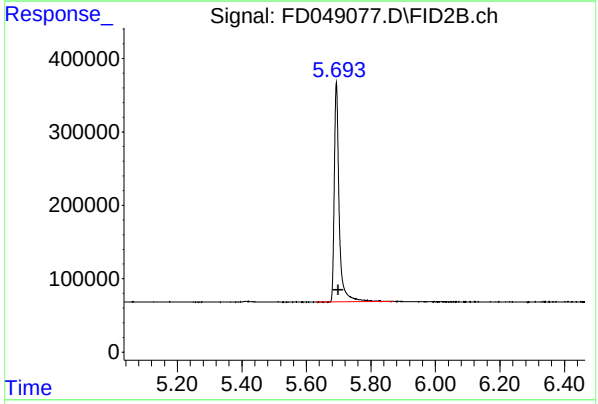
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.176 min
Delta R.T.: -0.002 min
Response: 3134755
Conc: 19.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

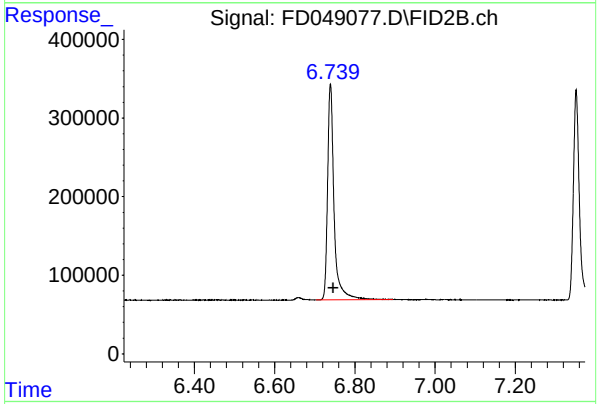
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



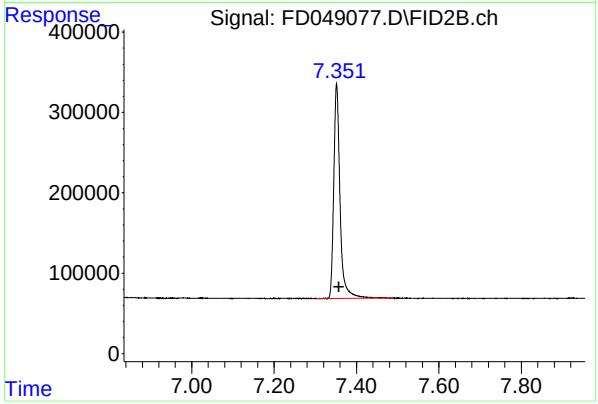
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: -0.006 min
Response: 3146803
Conc: 19.82 ug/ml



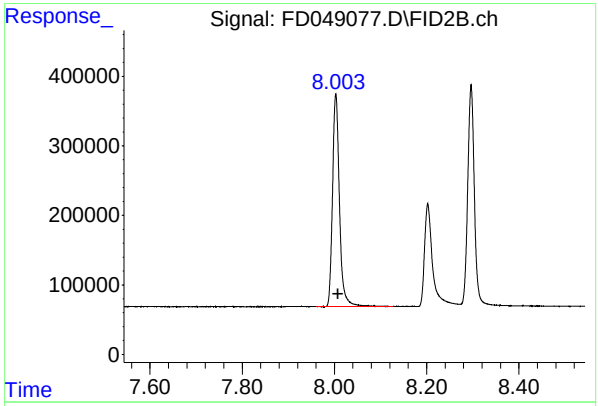
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: -0.007 min
Response: 3087751
Conc: 19.83 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.352 min
Delta R.T.: -0.006 min
Response: 2822907
Conc: 19.73 ug/ml



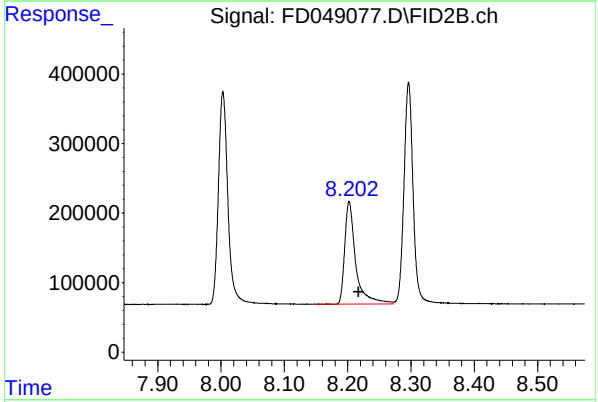
#5 Acenaphthylene (C15.06)

R.T.: 8.003 min
Delta R.T.: -0.004 min
Response: 3188327
Conc: 19.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

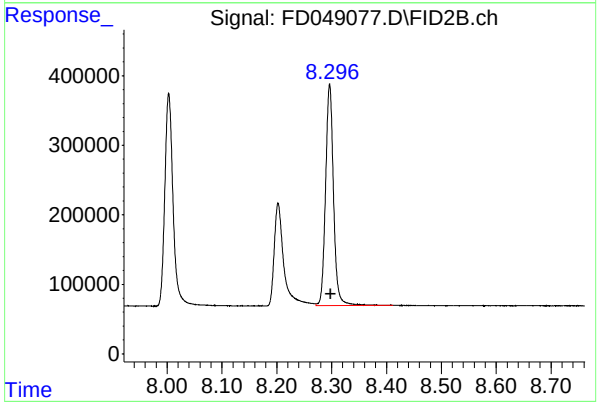
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



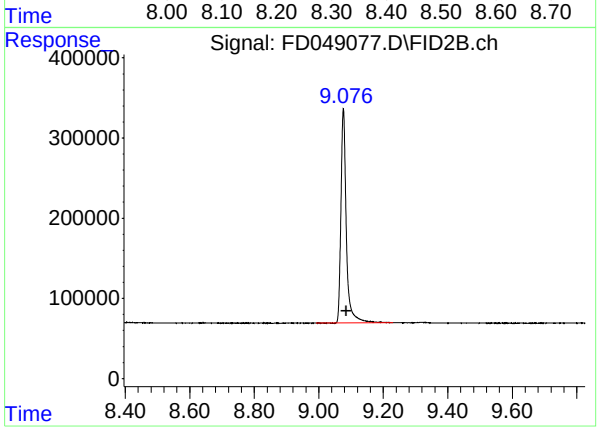
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: -0.015 min
Response: 1781261
Conc: 20.26 ug/ml



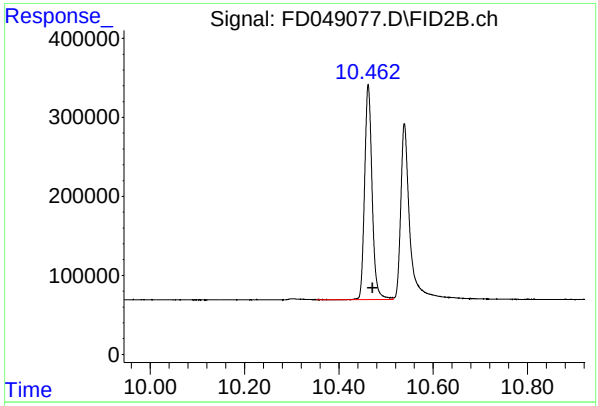
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: -0.002 min
Response: 3203234
Conc: 19.47 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.076 min
Delta R.T.: -0.008 min
Response: 3106009
Conc: 19.70 ug/ml



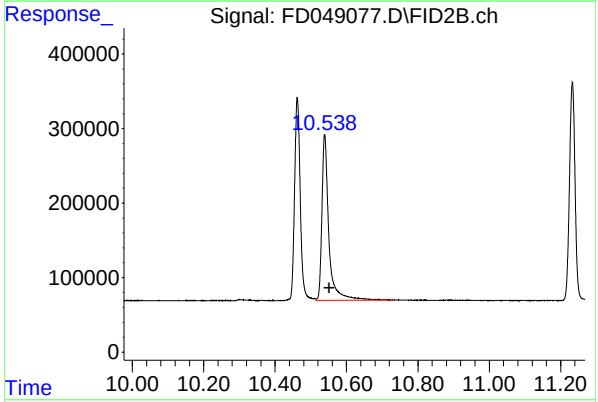
#9 Phenanthrene (C19.36)

R.T.: 10.462 min
Delta R.T.: -0.009 min
Response: 2995357
Conc: 19.88 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

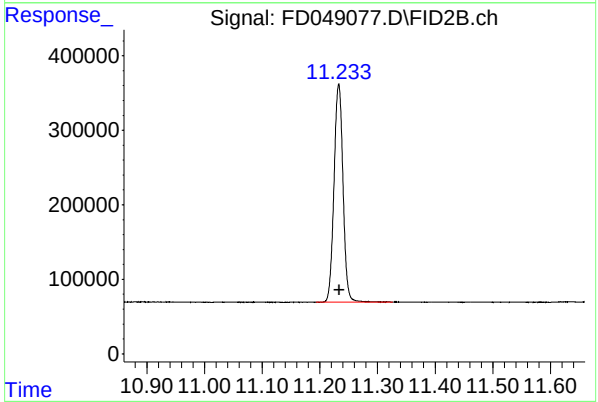
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



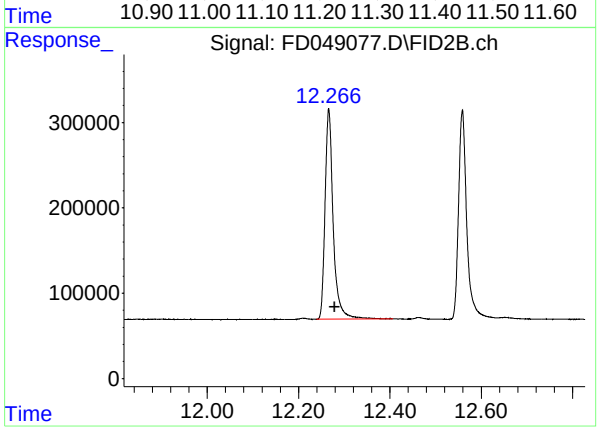
#10 Anthracene (C19.43)

R.T.: 10.539 min
Delta R.T.: -0.013 min
Response: 3001671
Conc: 19.87 ug/ml



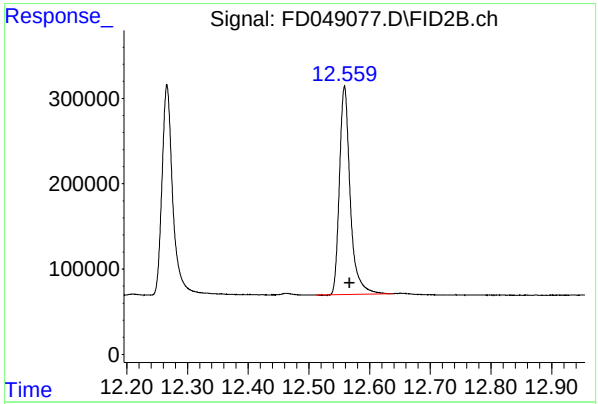
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: -0.001 min
Response: 3178458
Conc: 19.65 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.266 min
Delta R.T.: -0.013 min
Response: 3059686
Conc: 19.83 ug/ml



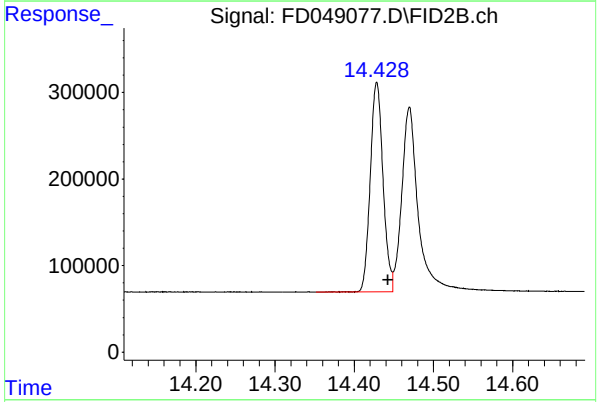
#13 Pyrene (C20.8)

R.T.: 12.559 min
Delta R.T.: -0.008 min
Response: 3015618
Conc: 19.57 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

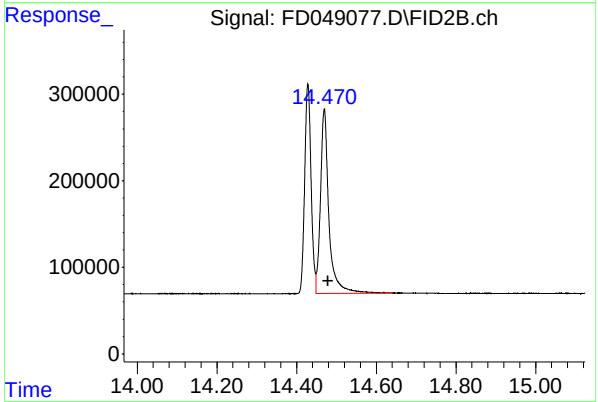
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



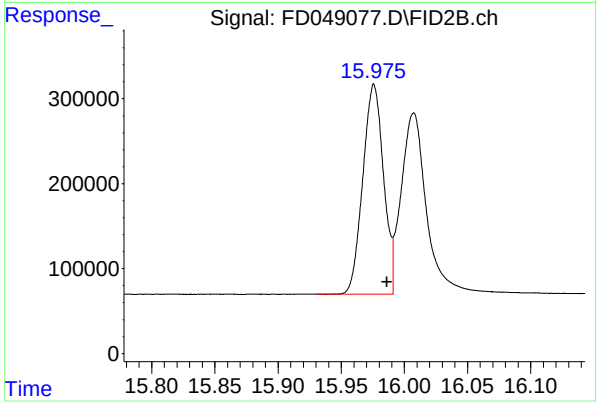
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.428 min
Delta R.T.: -0.014 min
Response: 2707067
Conc: 20.60 ug/ml



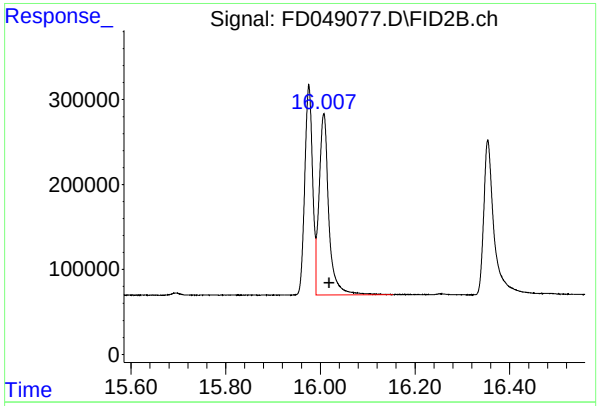
#15 Chrysene (C27.41)

R.T.: 14.470 min
Delta R.T.: -0.009 min
Response: 3142097
Conc: 19.43 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 15.976 min
Delta R.T.: -0.010 min
Response: 2807062
Conc: 20.40 ug/ml



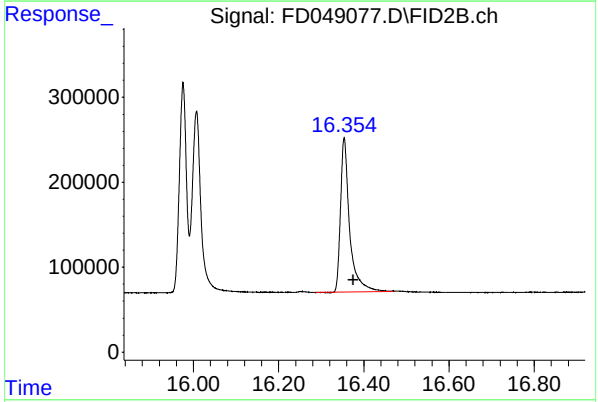
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.007 min
Delta R.T.: -0.012 min
Response: 3031459
Conc: 19.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

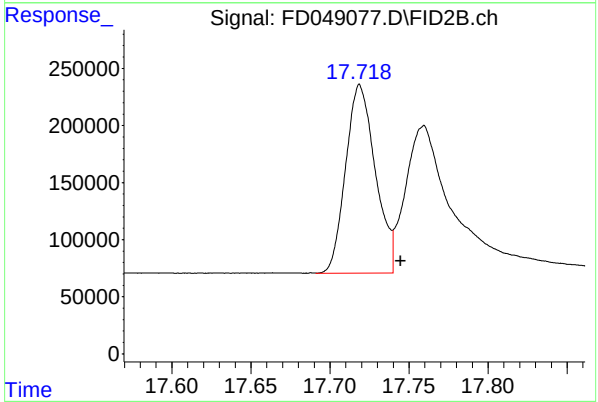
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



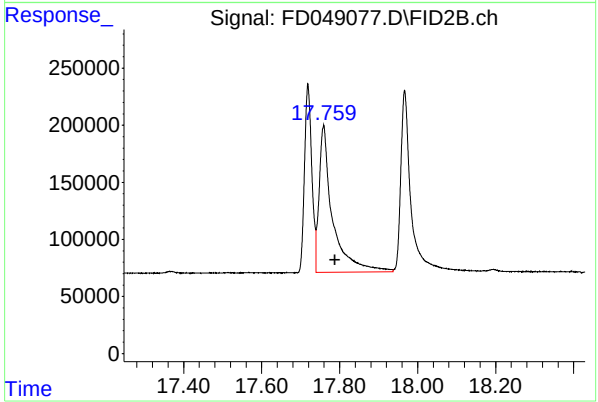
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: -0.022 min
Response: 2694826
Conc: 19.85 ug/ml



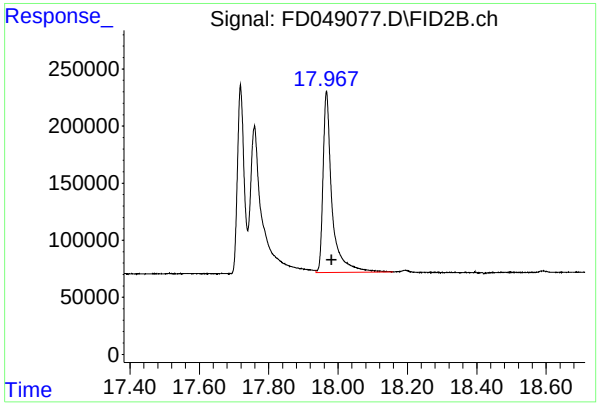
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: -0.026 min
Response: 2162922
Conc: 19.79 ug/ml m



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.759 min
Delta R.T.: -0.029 min
Response: 3098291
Conc: 19.97 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.967 min
Delta R.T.: -0.015 mi
Response: 2849147
Conc: 19.66 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

12

A B C D E F G H I J

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02112
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.290	BV	342184	3134755	97.86%	5.122%
2	5.693	5.630	5.868	BB	299016	3146803	98.24%	5.142%
3	6.739	6.703	6.895	BB	275219	3087751	96.39%	5.046%
4	7.352	7.302	7.488	BB	267137	2822907	88.13%	4.613%
5	8.003	7.960	8.127	BB	305766	3188327	99.53%	5.210%
6	8.203	8.150	8.272	BV	147711	1781261	55.61%	2.911%
7	8.296	8.272	8.412	VB	318821	3203234	100.00%	5.234%
8	9.076	8.992	9.230	BB	267490	3106009	96.96%	5.075%
9	10.462	10.352	10.515	BV	272649	2995357	93.51%	4.895%
10	10.539	10.515	10.730	VV	223108	3001671	93.71%	4.905%
11	11.233	11.193	11.327	BB	293357	3178458	99.23%	5.194%
12	12.266	12.238	12.407	BB	246286	3059686	95.52%	5.000%
13	12.559	12.512	12.638	BV	244060	3015618	94.14%	4.928%
14	14.428	14.352	14.449	BV	242288	2707067	84.51%	4.424%
15	14.470	14.449	14.642	VB	214017	3142097	98.09%	5.134%
16	15.976	15.930	15.991	BV	246799	2807062	87.63%	4.587%
17	16.007	15.991	16.153	VB	213051	3031459	94.64%	4.954%
18	16.354	16.288	16.468	PV	181424	2694826	84.13%	4.404%
19	17.719	17.690	17.740	BV	165163	2144691	66.95%	3.505%
20	17.759	17.740	17.937	VV	128285	3098291	96.72%	5.063%
21	17.967	17.937	18.158	VB	158807	2849147	88.95%	4.656%
			Sum of corrected areas:			61196477		

Aromatic EPH 021125.M Tue Feb 11 00:34:31 2025

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

Inital Calibration Report for SequenceID : FE030325AL

AreaCount

Parameter Range	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.D	
Aliphatic C9-C12	42442133.000	21908913.000	9597805.000	4926333.000	2520517.000	
Aliphatic C12-C16	27580281.000	14251729.000	6250320.000	3204581.000	1635867.000	
Aliphatic C16-C21	39738338.000	20559097.000	9010211.000	4640638.000	2375408.000	
Aliphatic C21-C28	50608585.000	26547978.000	11639338.000	6148197.000	3076025.000	
Aliphatic C28-C40	66374736.000	34517397.000	15630021.000	8240673.000	4340048.000	
Aliphatic EPH	226744073.000	117785114.000	52127695.000	27160422.000	13947865.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	155948.4359996	7.435				
Aliphatic C12-C16	152098.489	7.415				
Aliphatic C16-C21	146548.0846662	7.685				
Aliphatic C21-C28	142451.8505	8.689				
Aliphatic C28-C40	127589.1083332	11.35				
Aliphatic EPH	141501.5884438	8.903				

Concentration

Parameter Range	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.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	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.D	
Aliphatic C9-C12	141473.776666	146059.420000	159963.416666	164211.100000	168034.466666	
Aliphatic C12-C16	137901.405000	142517.290000	156258.000000	160229.050000	163586.700000	
Aliphatic C16-C21	132461.126666	137060.646666	150170.183333	154687.933333	158360.533333	

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

Inital Calibration Report for SequenceID : FE030325AL

Aliphatic C21-C28	126521.462500	132739.890000	145491.725000	153704.925000	153801.250000	
Aliphatic C28-C40	110624.560000	115057.990000	130250.175000	137344.550000	144668.266666	
Aliphatic EPH	125968.929444	130872.348888	144799.152777	150891.233333	154976.277777	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052574.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:03
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Mar 03 12:35:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 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			
9) S	ortho-Terphenyl (SURR)	11.921	15249190	93.747 ug/ml
Spiked Amount	50.000		Recovery =	187.49%
12) S	1-chlorooctadecane (S...	13.362	11123183	94.425 ug/ml
Spiked Amount	50.000		Recovery =	188.85%
	Target Compounds			
1) T	n-Nonane (C9)	3.257	14069581	93.932 ug/ml
2) T	n-Decane (C10)	4.520	14244956	93.842 ug/ml
3) T	A~Naphthalene (C11.7)	6.234	15515805	94.126 ug/ml
4) T	n-Dodecane (C12)	6.701	14127596	93.824 ug/ml
5) T	A~2-methylnaphthalene...	7.337	14872839	94.265 ug/ml
6) T	n-Tetradecane (C14)	8.538	13725919	93.771 ug/ml
7) T	n-Hexadecane (C16)	10.153	13854362	93.748 ug/ml
8) T	n-Octadecane (C18)	11.603	13752507	93.737 ug/ml
10) T	n-Eicosane (C20)	12.917	13115140	93.713 ug/ml
11) T	n-Heneicosane (C21)	13.531	12870691	93.753 ug/ml
13) T	n-Docosane (C22)	14.119	12800111	93.460 ug/ml
14) T	n-Tetracosane (C24)	15.226	12766560	93.227 ug/ml
15) T	n-Hexacosane (C26)	16.249	12617268	93.065 ug/ml
16) T	n-Octacosane (C28)	17.201	12424646	92.341 ug/ml
17) T	n-Tricontane (C30)	18.092	12609210	91.462 ug/ml
18) T	n-Dotriacontane (C32)	18.928	12252844	90.798 ug/ml
19) T	n-Tetratriacontane (C34)	19.714	11540152	91.301 ug/ml
20) T	n-Hexatriacontane (C36)	20.455	10354123	91.810 ug/ml
21) T	n-Octatriacontane (C38)	21.198	9888606	92.810 ug/ml
22) T	n-Tetracontane (C40)	22.124	9729801	93.471 ug/ml

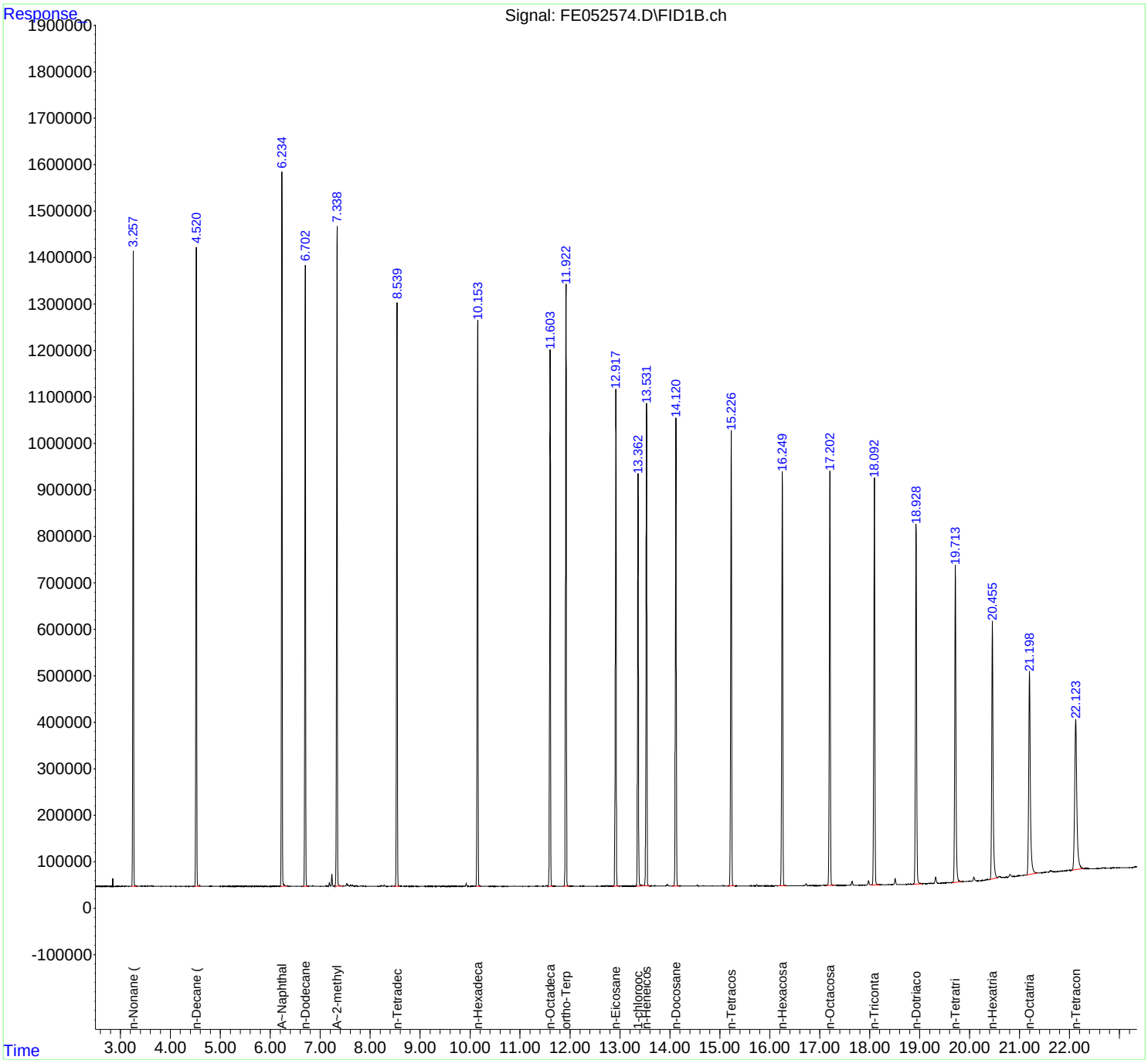
(f)=RT Delta > 1/2 Window (m)=manual int.

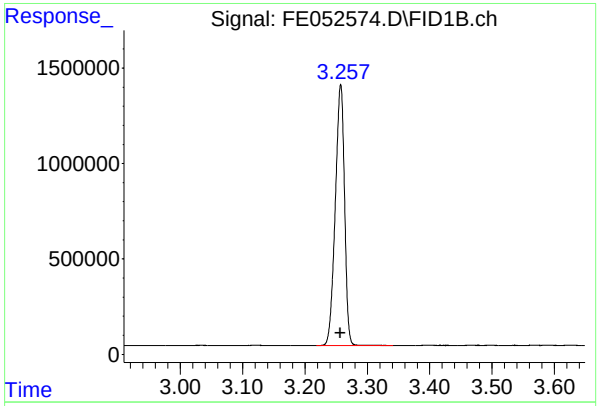
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052574.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:03
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Mar 03 12:35:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

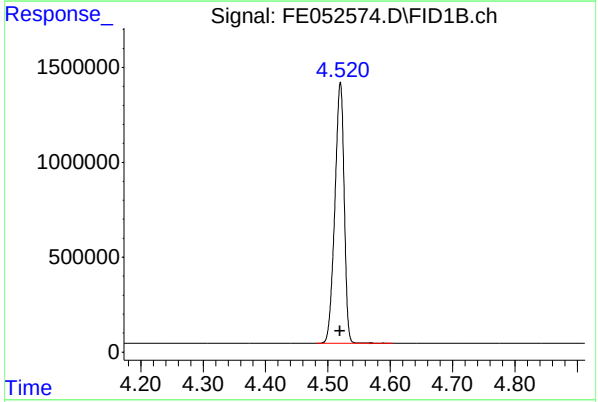




#1 n-Nonane (C9)

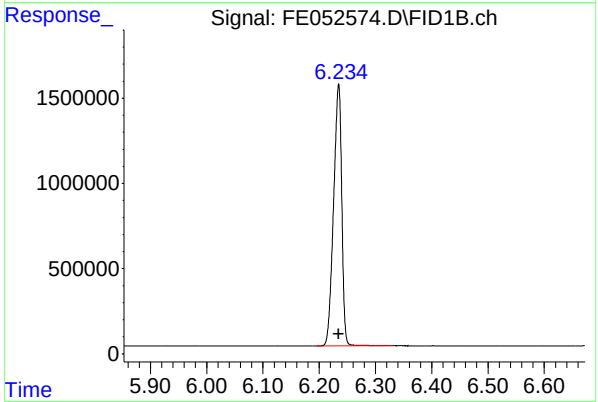
R.T.: 3.257 min
Delta R.T.: 0.000 min
Response: 14069581
Conc: 93.93 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



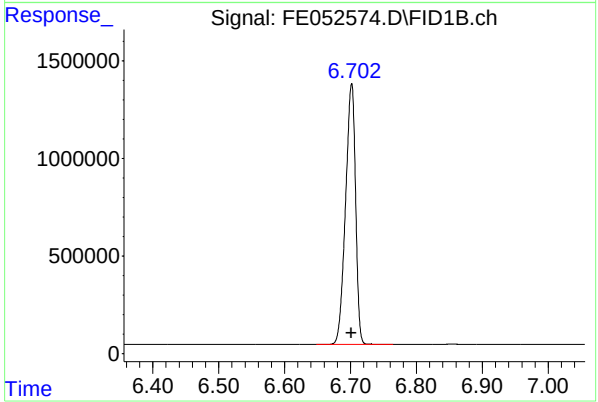
#2 n-Decane (C10)

R.T.: 4.520 min
Delta R.T.: 0.000 min
Response: 14244956
Conc: 93.84 ug/ml



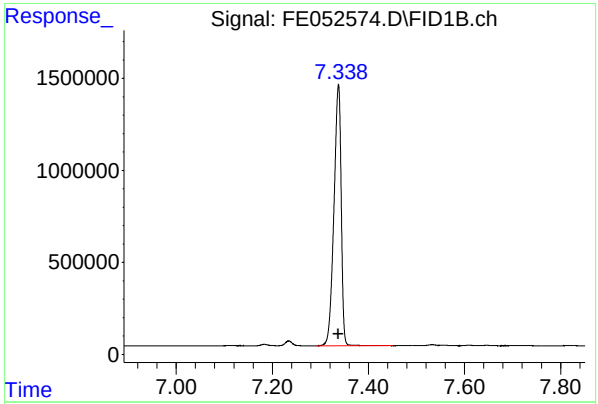
#3 A~Naphthalene (C11.7)

R.T.: 6.234 min
Delta R.T.: 0.000 min
Response: 15515805
Conc: 94.13 ug/ml



#4 n-Dodecane (C12)

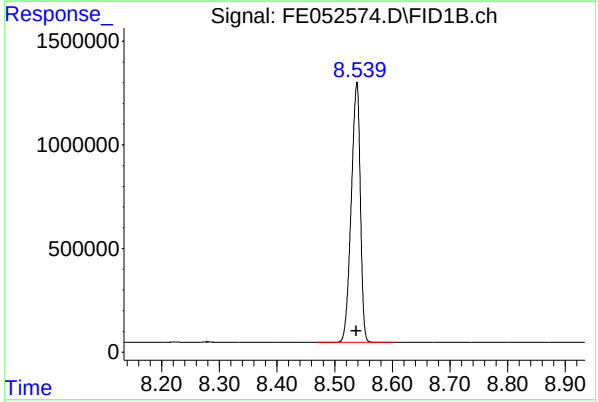
R.T.: 6.701 min
Delta R.T.: 0.000 min
Response: 14127596
Conc: 93.82 ug/ml



#5 A~2-methylnaphthalene (C12.89)

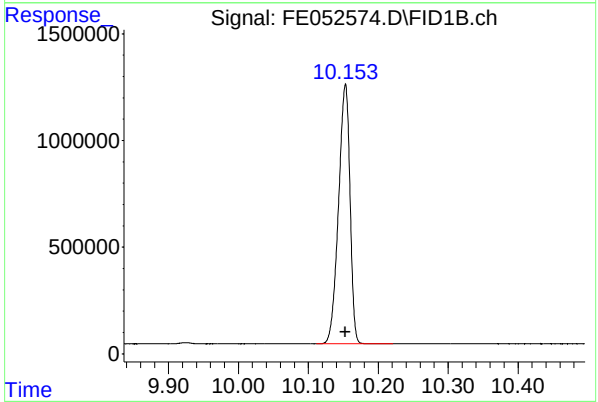
R.T.: 7.337 min
Delta R.T.: 0.000 min
Response: 14872839
Conc: 94.27 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



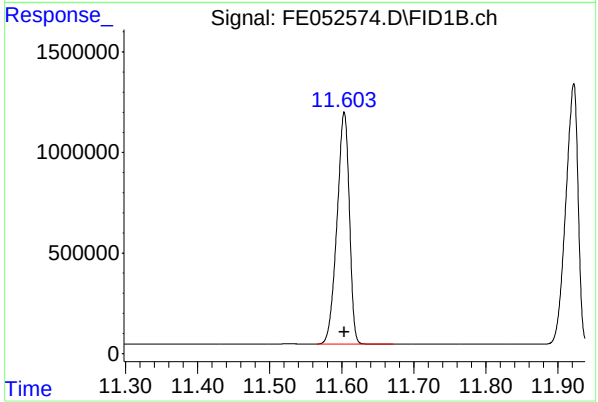
#6 n-Tetradecane (C14)

R.T.: 8.538 min
Delta R.T.: 0.000 min
Response: 13725919
Conc: 93.77 ug/ml



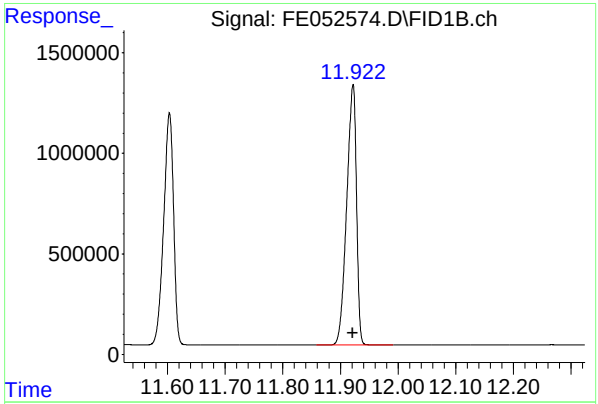
#7 n-Hexadecane (C16)

R.T.: 10.153 min
Delta R.T.: 0.000 min
Response: 13854362
Conc: 93.75 ug/ml



#8 n-Octadecane (C18)

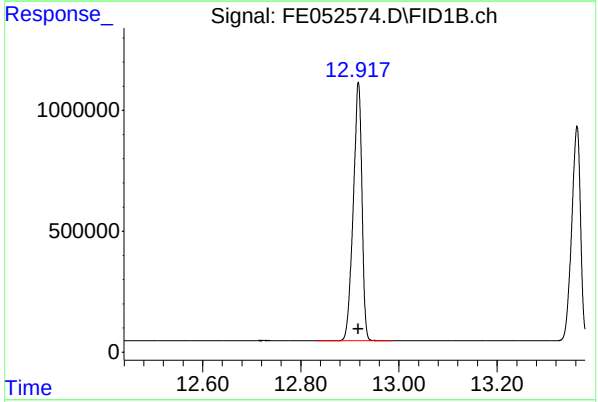
R.T.: 11.603 min
Delta R.T.: 0.000 min
Response: 13752507
Conc: 93.74 ug/ml



#9 ortho-Terphenyl (SURR)

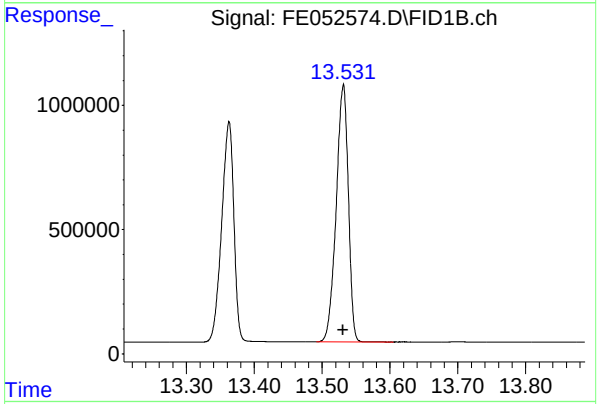
R.T.: 11.921 min
Delta R.T.: 0.000 min
Response: 15249190
Conc: 93.75 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



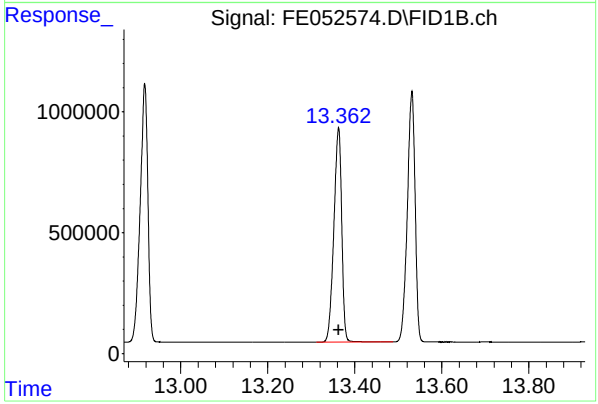
#10 n-Eicosane (C20)

R.T.: 12.917 min
Delta R.T.: 0.000 min
Response: 13115140
Conc: 93.71 ug/ml



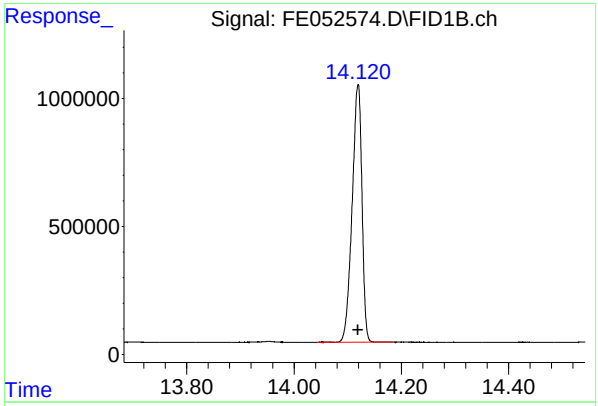
#11 n-Heneicosane (C21)

R.T.: 13.531 min
Delta R.T.: 0.000 min
Response: 12870691
Conc: 93.75 ug/ml



#12 1-chlorooctadecane (SURR)

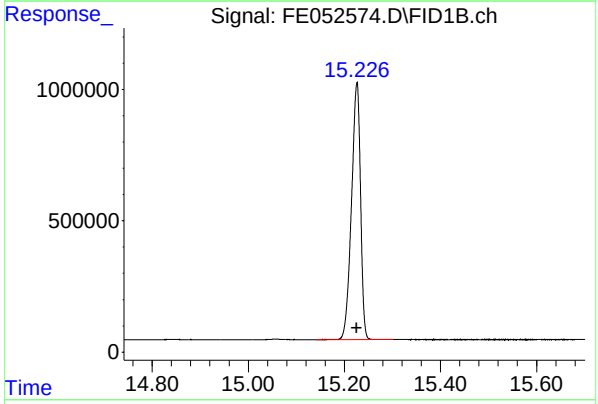
R.T.: 13.362 min
Delta R.T.: 0.000 min
Response: 11123183
Conc: 94.43 ug/ml



#13 n-Docosane (C22)

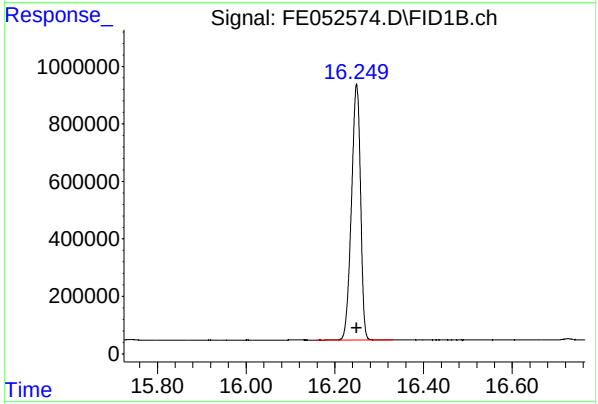
R.T.: 14.119 min
Delta R.T.: 0.000 min
Response: 12800111
Conc: 93.46 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



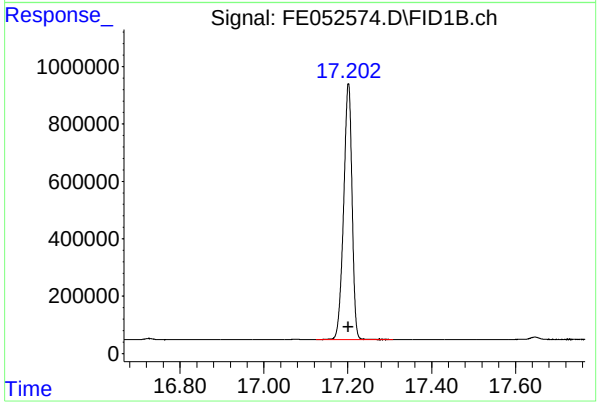
#14 n-Tetracosane (C24)

R.T.: 15.226 min
Delta R.T.: 0.000 min
Response: 12766560
Conc: 93.23 ug/ml



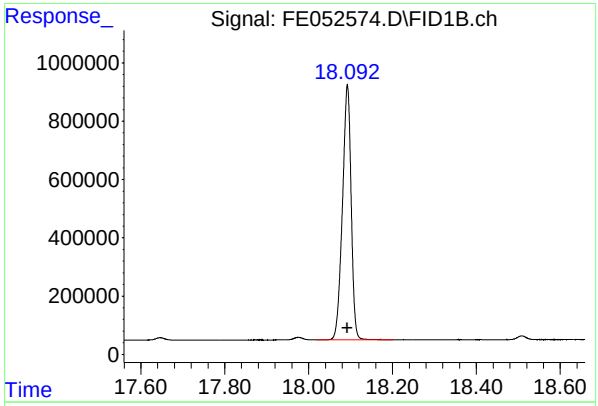
#15 n-Hexacosane (C26)

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 12617268
Conc: 93.06 ug/ml



#16 n-Octacosane (C28)

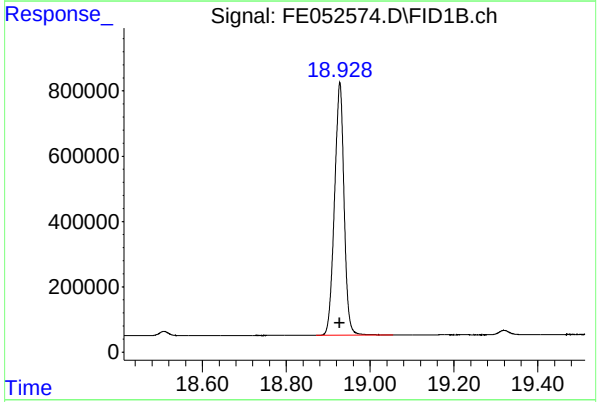
R.T.: 17.201 min
Delta R.T.: 0.000 min
Response: 12424646
Conc: 92.34 ug/ml



#17 n-Tricontane (C30)

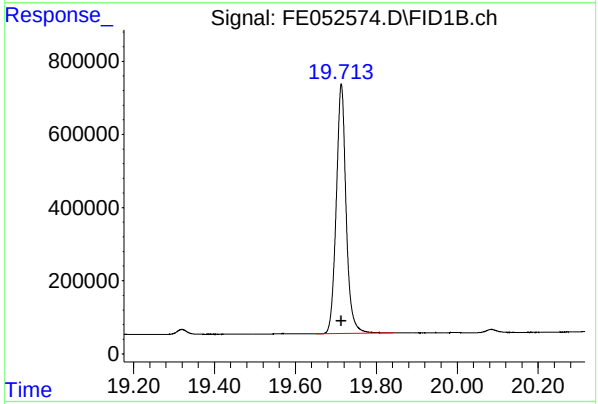
R.T.: 18.092 min
Delta R.T.: 0.000 min
Response: 12609210
Conc: 91.46 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



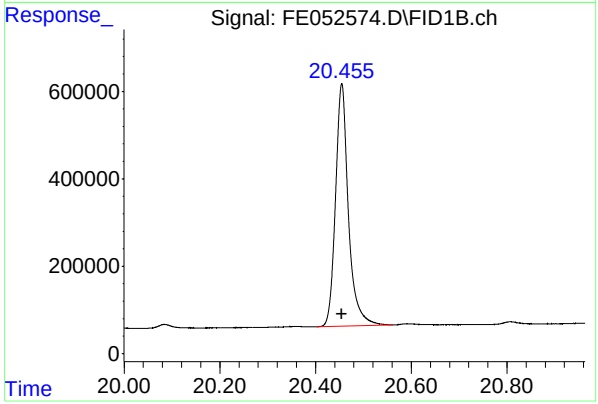
#18 n-Dotriacontane (C32)

R.T.: 18.928 min
Delta R.T.: 0.000 min
Response: 12252844
Conc: 90.80 ug/ml



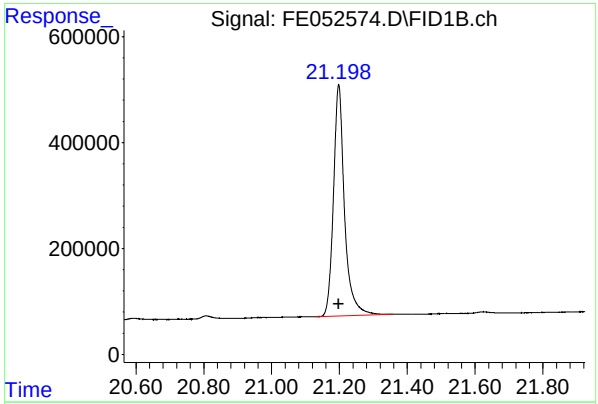
#19 n-Tetratriacontane (C34)

R.T.: 19.714 min
Delta R.T.: 0.000 min
Response: 11540152
Conc: 91.30 ug/ml



#20 n-Hexatriacontane (C36)

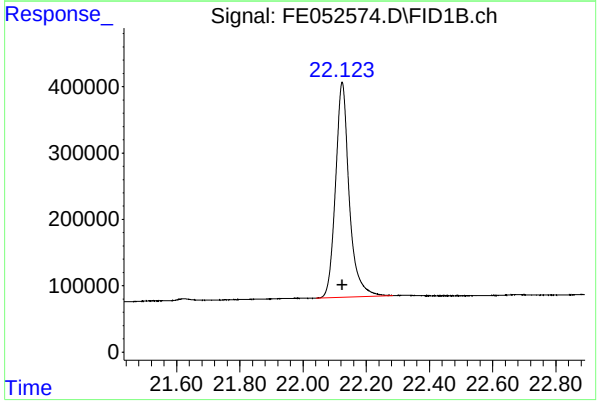
R.T.: 20.455 min
Delta R.T.: 0.000 min
Response: 10354123
Conc: 91.81 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.198 min
Delta R.T.: 0.000 min
Response: 9888606
Conc: 92.81 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.124 min
Delta R.T.: 0.000 min
Response: 9729801
Conc: 93.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052574.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:03
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.257	3.218	3.341	BB	1376737	14069581	90.68%	4.963%
2	4.520	4.481	4.604	BB	1385573	14244956	91.81%	5.025%
3	6.234	6.194	6.331	BB	1543497	15515805	100.00%	5.473%
4	6.701	6.648	6.764	BB	1337401	14127596	91.05%	4.983%
5	7.337	7.291	7.451	PB	1429684	14872839	95.86%	5.246%
6	8.538	8.468	8.601	BB	1246041	13725919	88.46%	4.842%
7	10.153	10.111	10.221	BB	1228361	13854362	89.29%	4.887%
8	11.603	11.564	11.671	BB	1158280	13752507	88.64%	4.851%
9	11.921	11.858	11.991	BB	1294746	15249190	98.28%	5.379%
10	12.917	12.831	12.988	BB	1073457	13115140	84.53%	4.626%
11	13.362	13.311	13.488	BB	878519	11123183	71.69%	3.923%
12	13.531	13.491	13.604	BB	1034118	12870691	82.95%	4.540%
13	14.119	14.041	14.184	BB	1007279	12800111	82.50%	4.515%
14	15.226	15.141	15.301	BB	971384	12766560	82.28%	4.503%
15	16.249	16.158	16.331	BB	889127	12617268	81.32%	4.450%
16	17.201	17.124	17.308	BB	895534	12424646	80.08%	4.383%
17	18.092	18.018	18.201	VB	871317	12609210	81.27%	4.448%
18	18.928	18.871	19.054	BB	775818	12252844	78.97%	4.322%
19	19.714	19.651	19.841	BV	682323	11540152	74.38%	4.071%
20	20.455	20.401	20.562	BV	555199	10354123	66.73%	3.652%
21	21.198	21.131	21.358	BB	437475	9888606	63.73%	3.488%
22	22.124	22.041	22.284	BV	324105	9729801	62.71%	3.432%
			Sum of corrected areas:			283505085		

Aliphatic EPH 030325.M Tue Mar 04 04:13:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052575.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:34
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

12

A B C D E F G H I J

Integration File: autoint1.e
Quant Time: Mar 03 12:40:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:40:45 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			
9)	S ortho-Terphenyl (SURR)	11.915	7890446	48.995 ug/ml
Spiked Amount	50.000		Recovery =	97.99%
12)	S 1-chlorooctadecane (S...	13.358	5721300	49.036 ug/ml
Spiked Amount	50.000		Recovery =	98.07%
	Target Compounds			
1)	T n-Nonane (C9)	3.254	7262625	48.981 ug/ml
2)	T n-Decane (C10)	4.517	7350604	48.938 ug/ml
3)	T A~Naphthalene (C11.7)	6.230	8003588	49.026 ug/ml
4)	T n-Dodecane (C12)	6.698	7295684	48.957 ug/ml
5)	T A~2-methylnaphthalene...	7.333	7667442	49.056 ug/ml
6)	T n-Tetradecane (C14)	8.535	7087970	48.937 ug/ml
7)	T n-Hexadecane (C16)	10.150	7163759	48.973 ug/ml
8)	T n-Octadecane (C18)	11.599	7114585	48.985 ug/ml
10)	T n-Eicosane (C20)	12.913	6790047	49.002 ug/ml
11)	T n-Heneicosane (C21)	13.527	6654465	48.971 ug/ml
13)	T n-Docosane (C22)	14.115	6651959	49.037 ug/ml
14)	T n-Tetracosane (C24)	15.221	6697431	49.266 ug/ml
15)	T n-Hexacosane (C26)	16.246	6641490	49.320 ug/ml
16)	T n-Octacosane (C28)	17.198	6557098	49.148 ug/ml
17)	T n-Tricontane (C30)	18.088	6637939	48.751 ug/ml
18)	T n-Dotriacontane (C32)	18.923	6417064	48.341 ug/ml
19)	T n-Tetratriacontane (C34)	19.709	5988221	48.220 ug/ml
20)	T n-Hexatriacontane (C36)	20.451	5353171	48.282 ug/ml
21)	T n-Octatriacontane (C38)	21.193	5101404	48.566 ug/ml
22)	T n-Tetracontane (C40)	22.116	5019598	48.800 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052575.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:34
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

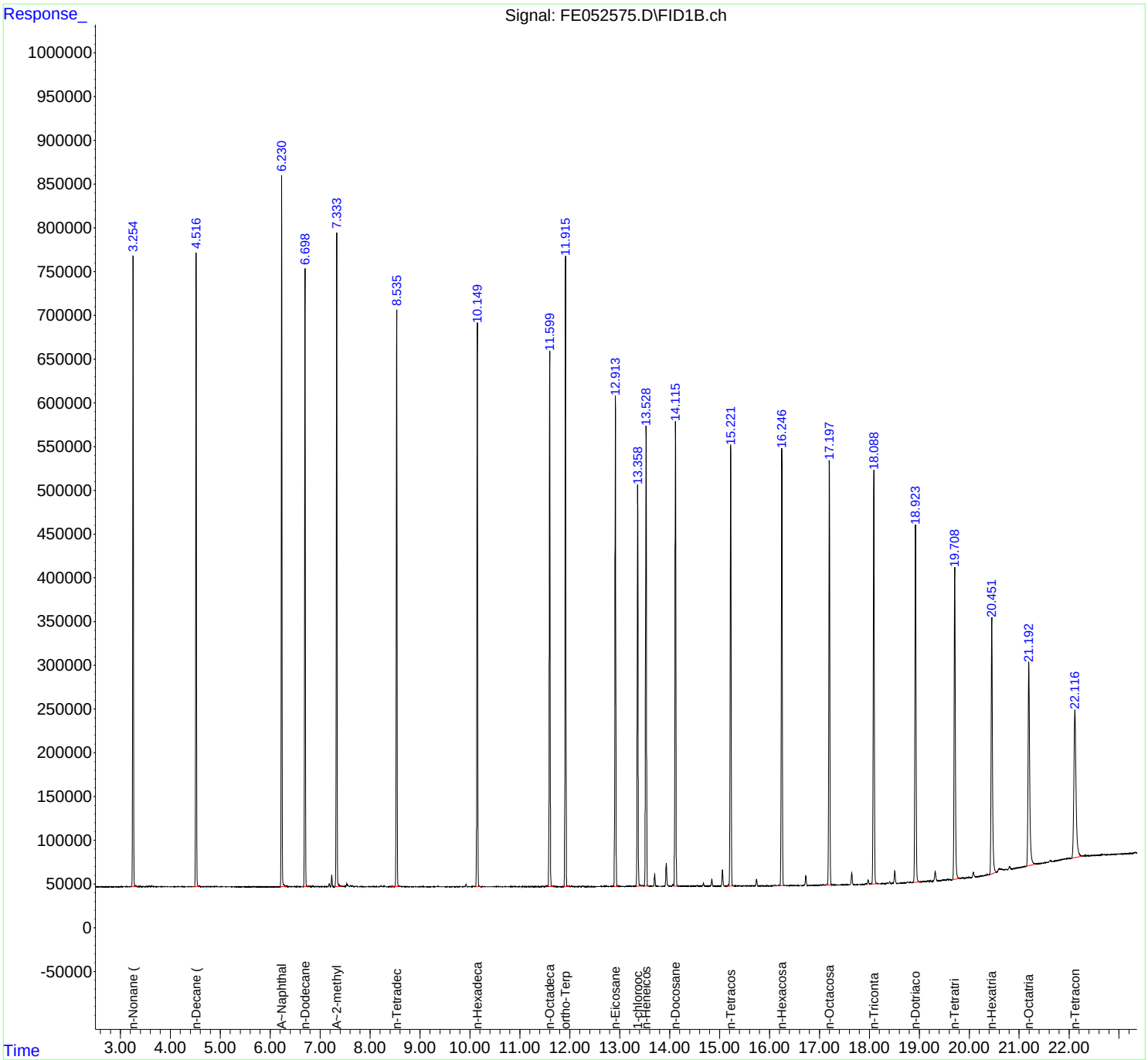
Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

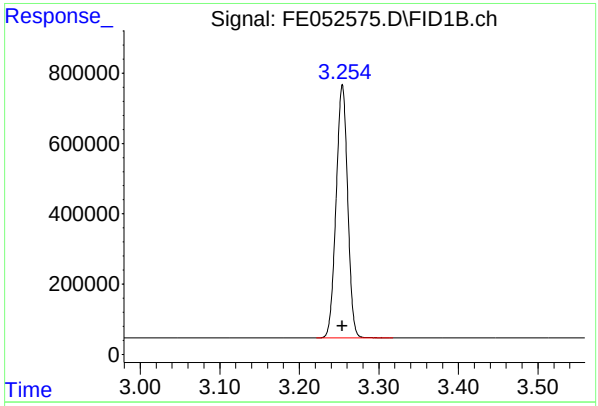
12

A B C D E F G H I J

Integration File: autoint1.e
Quant Time: Mar 03 12:40:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:40:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

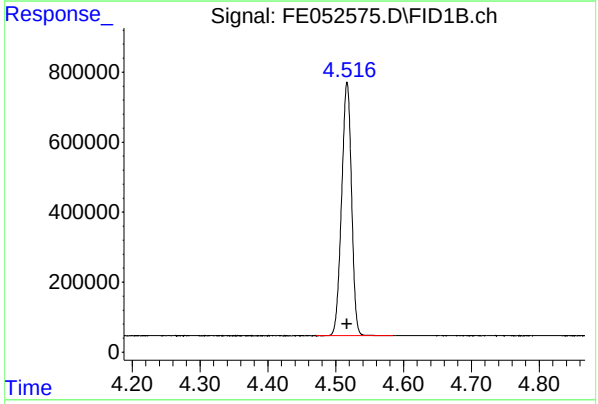




#1 n-Nonane (C9)

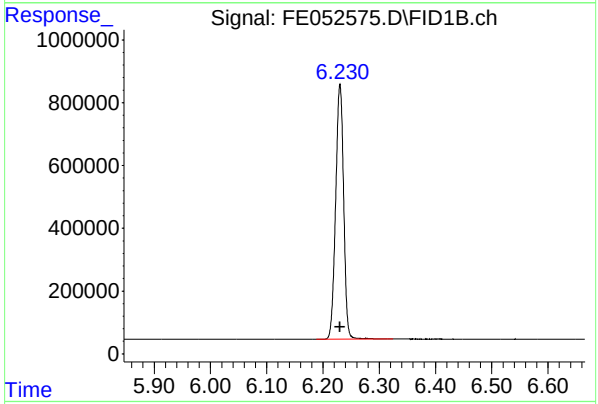
R.T.: 3.254 min
Delta R.T.: 0.000 min
Response: 7262625
Conc: 48.98 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



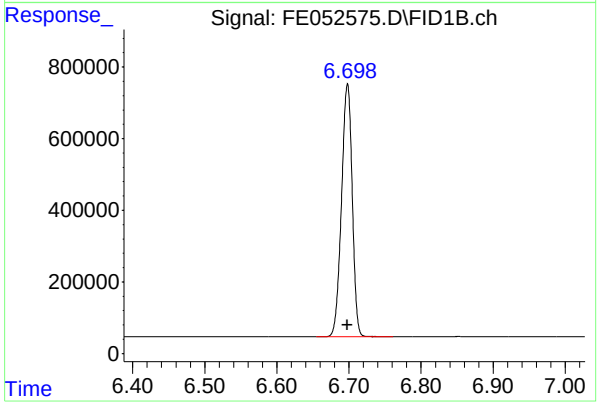
#2 n-Decane (C10)

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 7350604
Conc: 48.94 ug/ml



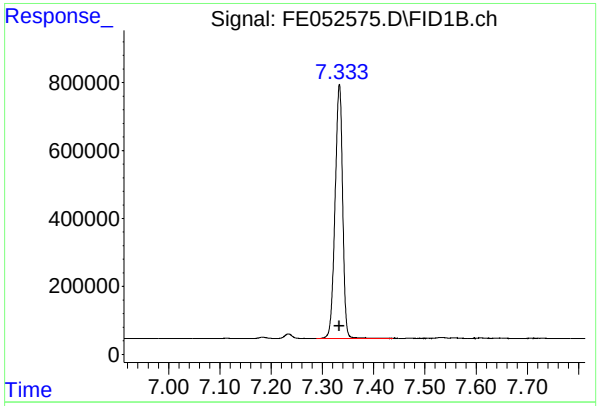
#3 A~Naphthalene (C11.7)

R.T.: 6.230 min
Delta R.T.: 0.000 min
Response: 8003588
Conc: 49.03 ug/ml



#4 n-Dodecane (C12)

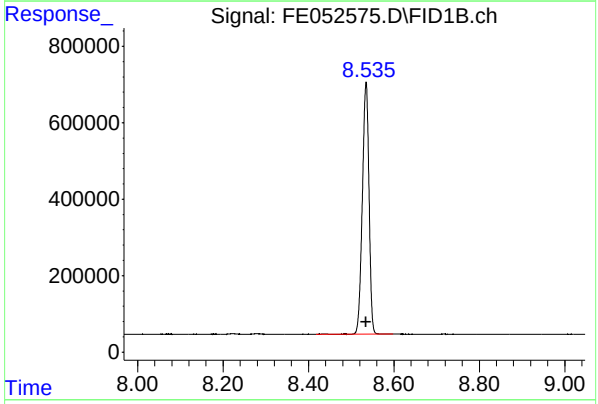
R.T.: 6.698 min
Delta R.T.: 0.000 min
Response: 7295684
Conc: 48.96 ug/ml



#5 A~2-methylnaphthalene (C12.89)

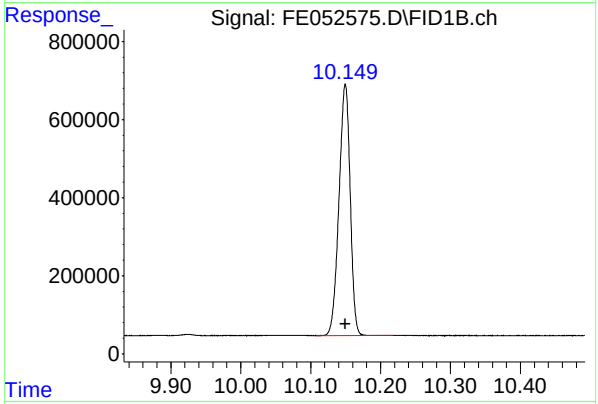
R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 7667442
Conc: 49.06 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



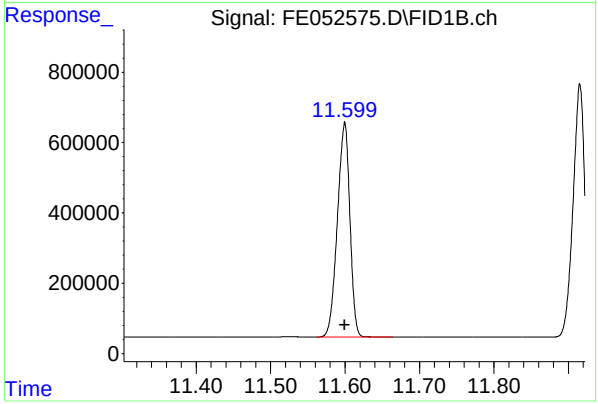
#6 n-Tetradecane (C14)

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 7087970
Conc: 48.94 ug/ml



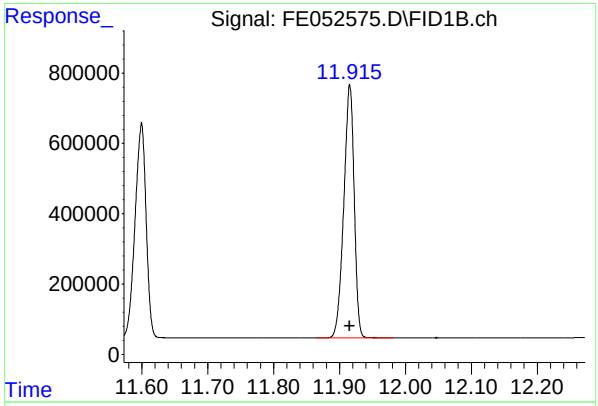
#7 n-Hexadecane (C16)

R.T.: 10.150 min
Delta R.T.: 0.000 min
Response: 7163759
Conc: 48.97 ug/ml



#8 n-Octadecane (C18)

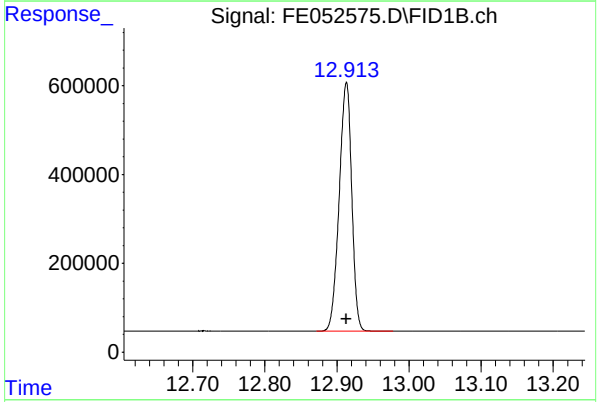
R.T.: 11.599 min
Delta R.T.: 0.000 min
Response: 7114585
Conc: 48.99 ug/ml



#9 ortho-Terphenyl (SURR)

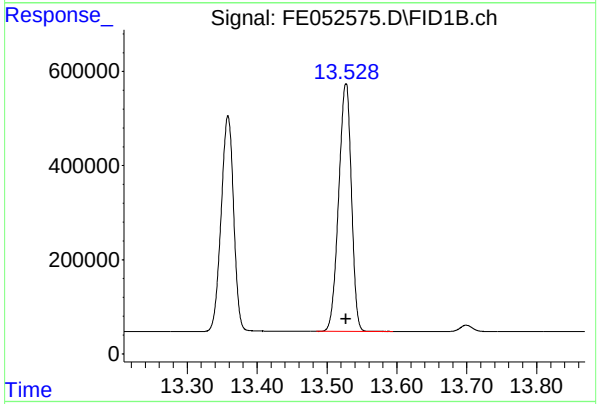
R.T.: 11.915 min
Delta R.T.: 0.000 min
Response: 7890446
Conc: 49.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



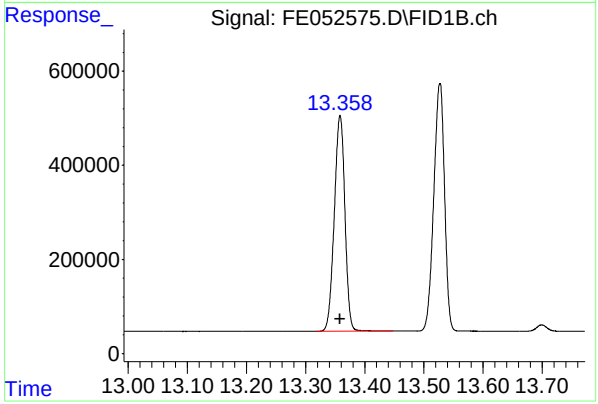
#10 n-Eicosane (C20)

R.T.: 12.913 min
Delta R.T.: 0.000 min
Response: 6790047
Conc: 49.00 ug/ml



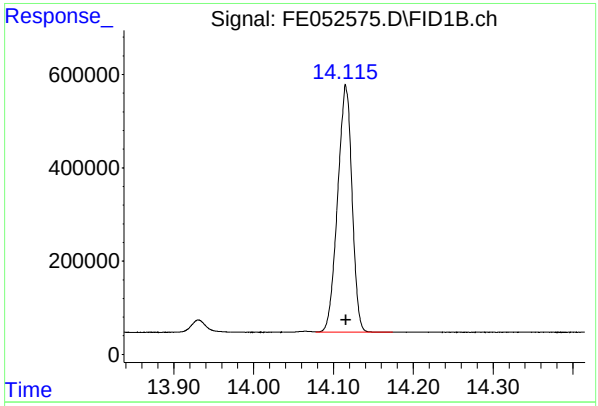
#11 n-Heneicosane (C21)

R.T.: 13.527 min
Delta R.T.: 0.000 min
Response: 6654465
Conc: 48.97 ug/ml



#12 1-chlorooctadecane (SURR)

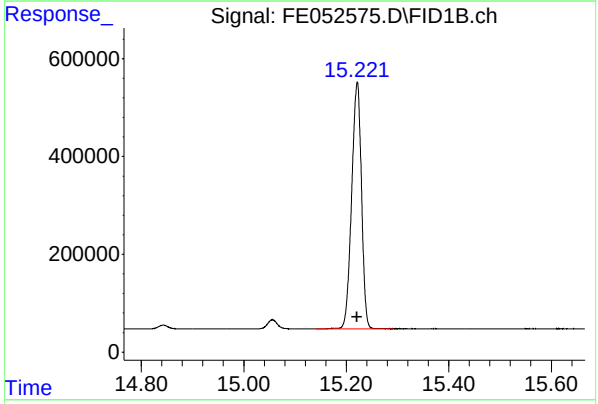
R.T.: 13.358 min
Delta R.T.: 0.000 min
Response: 5721300
Conc: 49.04 ug/ml



#13 n-Docosane (C22)

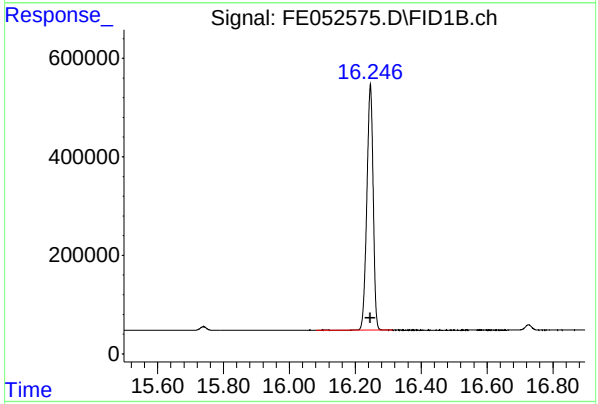
R.T.: 14.115 min
Delta R.T.: 0.000 min
Response: 6651959
Conc: 49.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



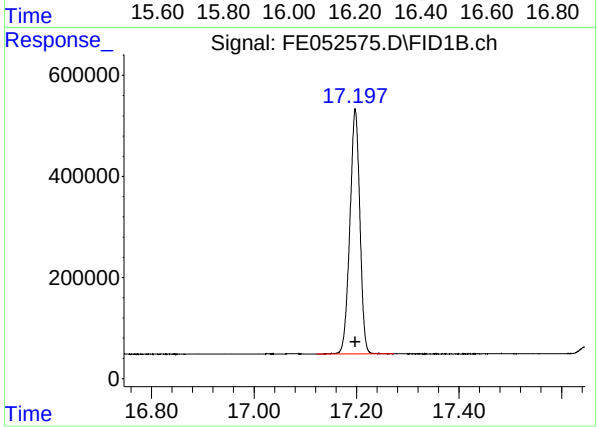
#14 n-Tetracosane (C24)

R.T.: 15.221 min
Delta R.T.: 0.000 min
Response: 6697431
Conc: 49.27 ug/ml



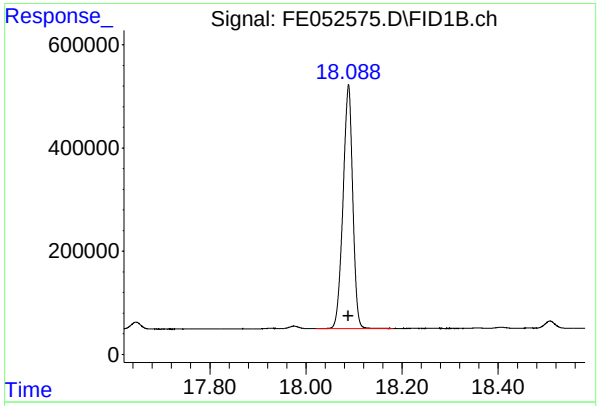
#15 n-Hexacosane (C26)

R.T.: 16.246 min
Delta R.T.: 0.000 min
Response: 6641490
Conc: 49.32 ug/ml



#16 n-Octacosane (C28)

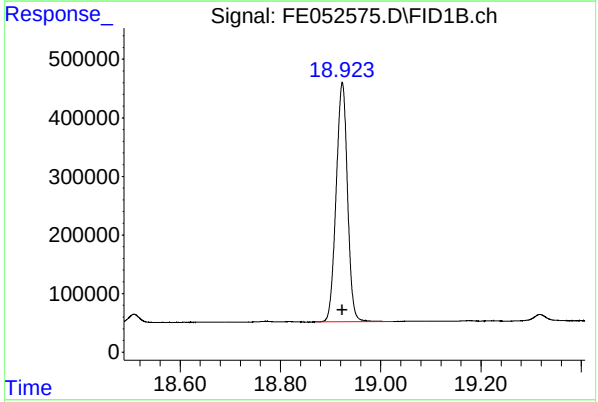
R.T.: 17.198 min
Delta R.T.: 0.000 min
Response: 6557098
Conc: 49.15 ug/ml



#17 n-Tricontane (C30)

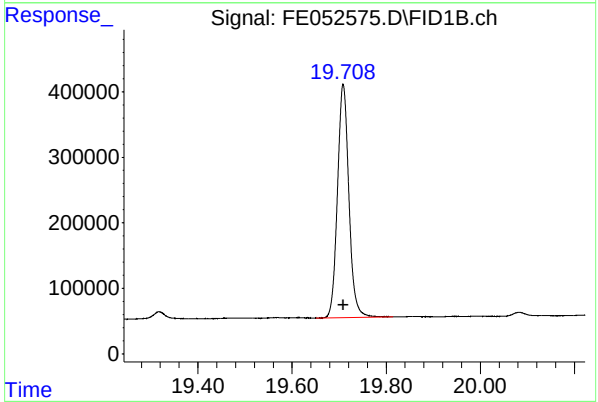
R.T.: 18.088 min
Delta R.T.: 0.000 min
Response: 6637939
Conc: 48.75 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



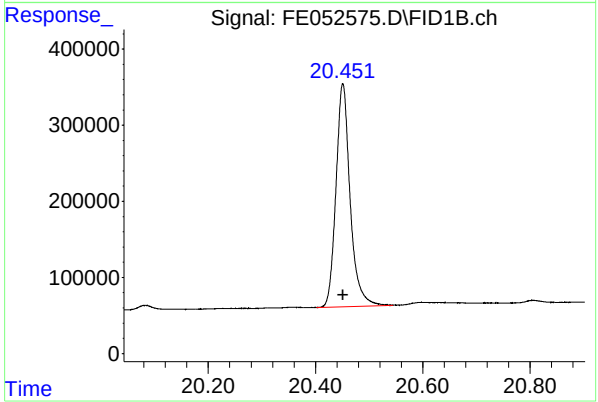
#18 n-Dotriacontane (C32)

R.T.: 18.923 min
Delta R.T.: 0.000 min
Response: 6417064
Conc: 48.34 ug/ml



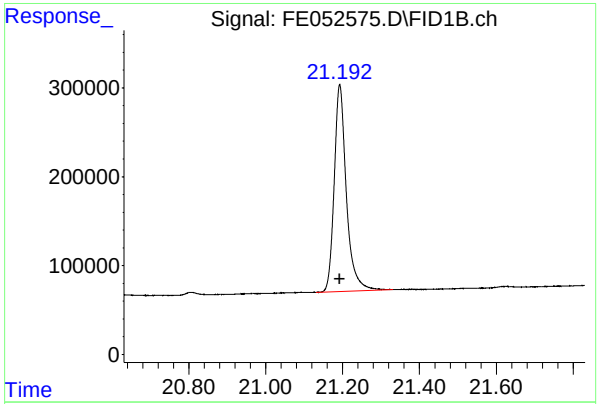
#19 n-Tetratriacontane (C34)

R.T.: 19.709 min
Delta R.T.: 0.000 min
Response: 5988221
Conc: 48.22 ug/ml



#20 n-Hexatriacontane (C36)

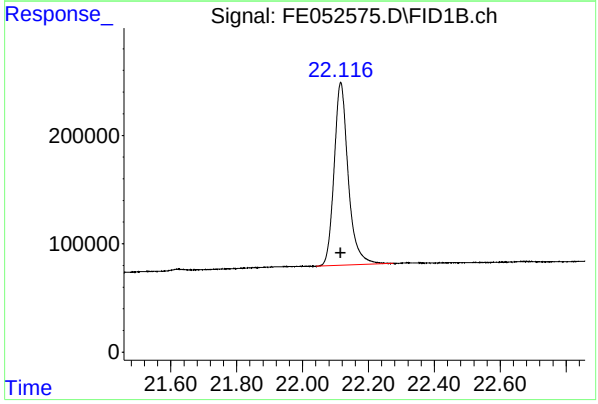
R.T.: 20.451 min
Delta R.T.: 0.000 min
Response: 5353171
Conc: 48.28 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.193 min
Delta R.T.: 0.000 min
Response: 5101404
Conc: 48.57 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.116 min
Delta R.T.: 0.000 min
Response: 5019598
Conc: 48.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052575.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:34
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.254	3.221	3.318	BB	720805	7262625	90.74%	4.938%
2	4.517	4.471	4.584	BB	725655	7350604	91.84%	4.998%
3	6.230	6.188	6.324	BB	812229	8003588	100.00%	5.442%
4	6.698	6.654	6.761	BB	705384	7295684	91.16%	4.961%
5	7.333	7.288	7.438	PB	756176	7667442	95.80%	5.214%
6	8.535	8.418	8.598	BB	657816	7087970	88.56%	4.820%
7	10.150	10.108	10.218	BB	647411	7163759	89.51%	4.871%
8	11.599	11.561	11.664	BB	599043	7114585	88.89%	4.838%
9	11.915	11.864	11.981	BB	717321	7890446	98.59%	5.365%
10	12.913	12.871	12.978	BB	565753	6790047	84.84%	4.617%
11	13.358	13.318	13.448	BB	458678	5721300	71.48%	3.890%
12	13.527	13.484	13.594	BB	530789	6654465	83.14%	4.525%
13	14.115	14.078	14.174	VB	526625	6651959	83.11%	4.523%
14	15.221	15.141	15.291	BB	504373	6697431	83.68%	4.554%
15	16.246	16.081	16.314	BB	495717	6641490	82.98%	4.516%
16	17.198	17.121	17.271	BB	483594	6557098	81.93%	4.459%
17	18.088	18.021	18.181	BB	469897	6637939	82.94%	4.514%
18	18.923	18.871	19.024	BB	409189	6417064	80.18%	4.363%
19	19.709	19.651	19.814	BB	357009	5988221	74.82%	4.072%
20	20.451	20.401	20.544	BV	293191	5353171	66.88%	3.640%
21	21.193	21.131	21.331	BB	232996	5101404	63.74%	3.469%
22	22.116	22.041	22.274	BV	168917	5019598	62.72%	3.413%
			Sum of corrected areas:			147067888		

Aliphatic EPH 030325.M Tue Mar 04 04:14:28 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052576.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:04
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Mar 03 12:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 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			
9) S	ortho-Terphenyl (SURR)	11.910	3456693	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	13.355	2487317	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.253	3177459	20.000 ug/ml
2) T	n-Decane (C10)	4.514	3222867	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	6.228	3490467	20.000 ug/ml
4) T	n-Dodecane (C12)	6.696	3197479	20.000 ug/ml
5) T	A~2-methylnaphthalene...	7.330	3336499	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.531	3109866	20.000 ug/ml
7) T	n-Hexadecane (C16)	10.146	3140454	20.000 ug/ml
8) T	n-Octadecane (C18)	11.595	3118030	20.000 ug/ml
10) T	n-Eicosane (C20)	12.909	2974997	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.523	2917184	20.000 ug/ml
13) T	n-Docosane (C22)	14.111	2918322	20.000 ug/ml
14) T	n-Tetracosane (C24)	15.217	2924292	20.000 ug/ml
15) T	n-Hexacosane (C26)	16.242	2899563	20.000 ug/ml
16) T	n-Octacosane (C28)	17.194	2897161	20.000 ug/ml
17) T	n-Tricontane (C30)	18.085	2992644	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.920	2947304	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.706	2747820	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	20.448	2440276	20.000 ug/ml
21) T	n-Octatriacontane (C38)	21.189	2284145	20.000 ug/ml
22) T	n-Tetracontane (C40)	22.109	2217832	20.000 ug/ml

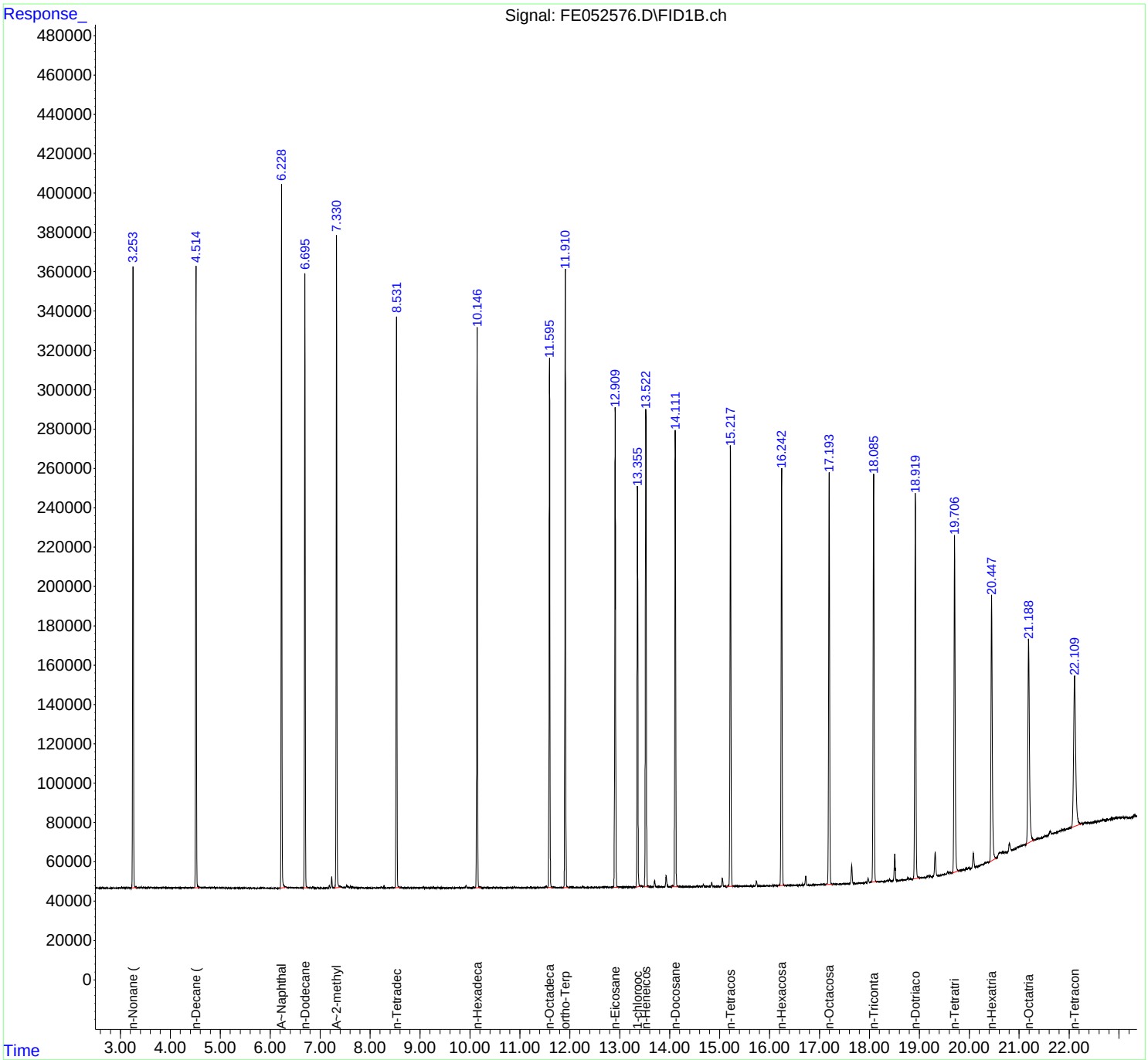
(f)=RT Delta > 1/2 Window (m)=manual int.

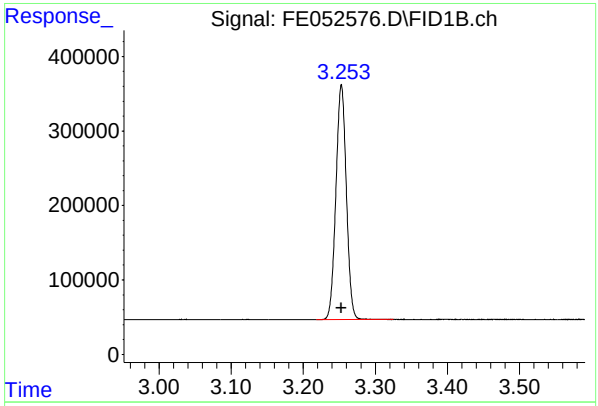
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052576.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:04
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Mar 03 12:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

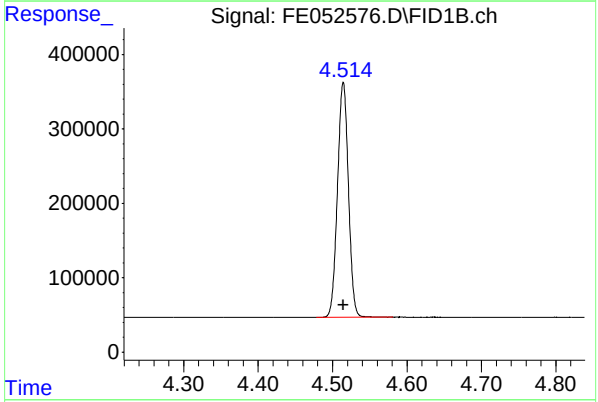




#1 n-Nonane (C9)

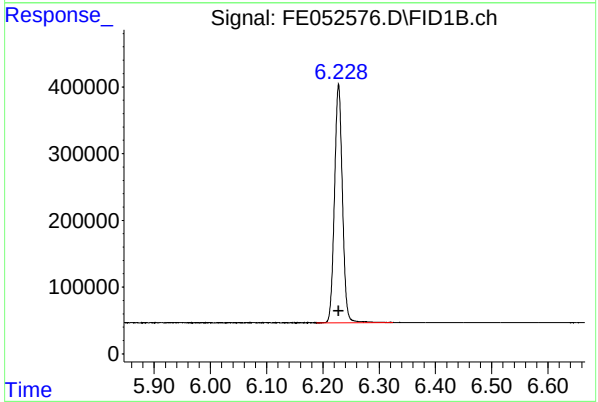
R.T.: 3.253 min
Delta R.T.: 0.000 min
Response: 3177459
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



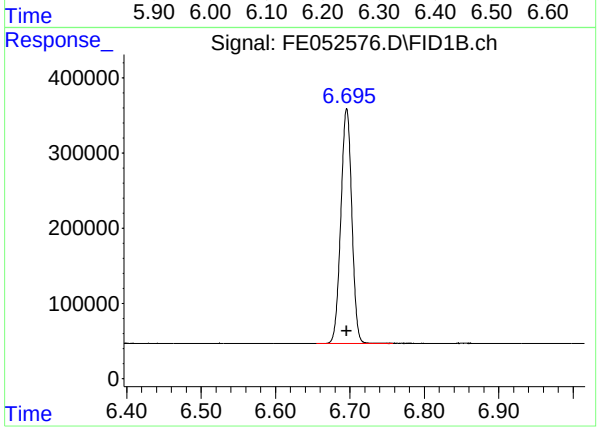
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 3222867
Conc: 20.00 ug/ml



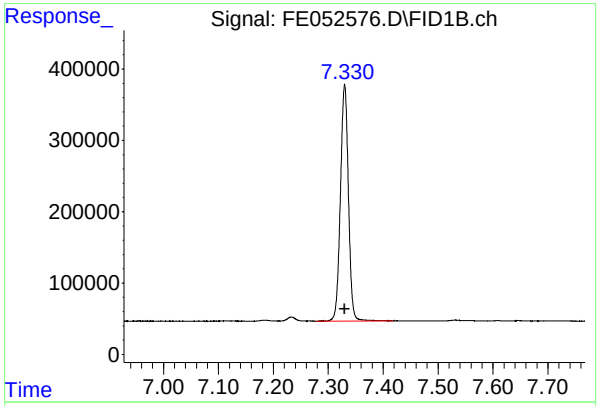
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 3490467
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

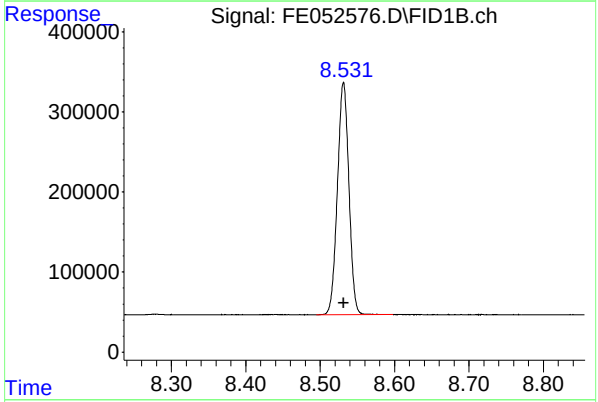
R.T.: 6.696 min
Delta R.T.: 0.000 min
Response: 3197479
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

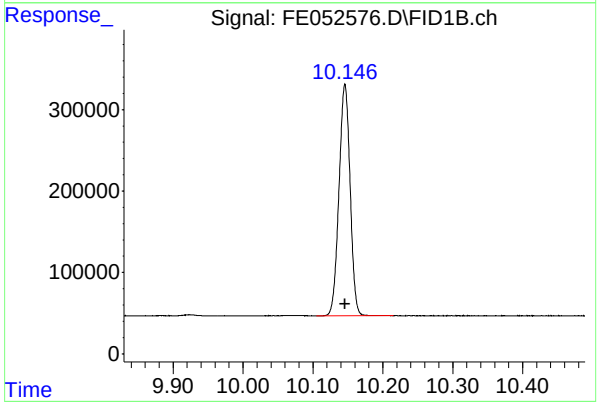
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 3336499
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



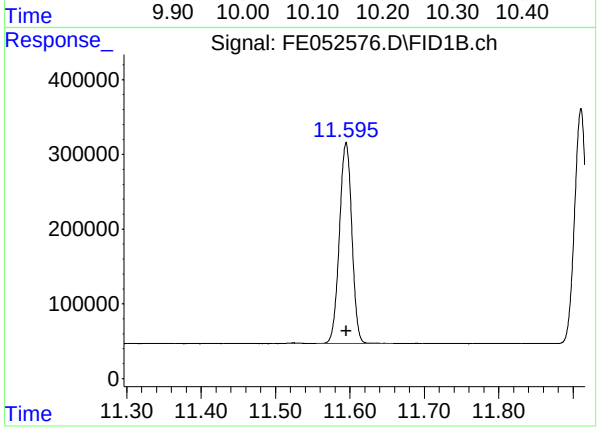
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 3109866
Conc: 20.00 ug/ml



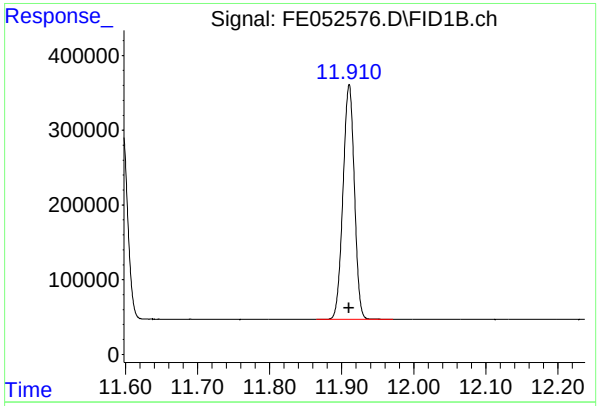
#7 n-Hexadecane (C16)

R.T.: 10.146 min
Delta R.T.: 0.000 min
Response: 3140454
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

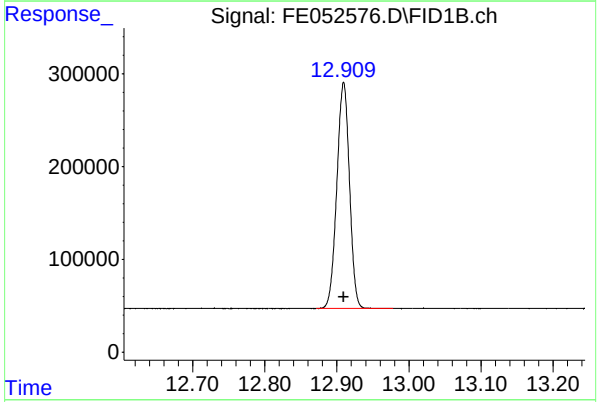
R.T.: 11.595 min
Delta R.T.: 0.000 min
Response: 3118030
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

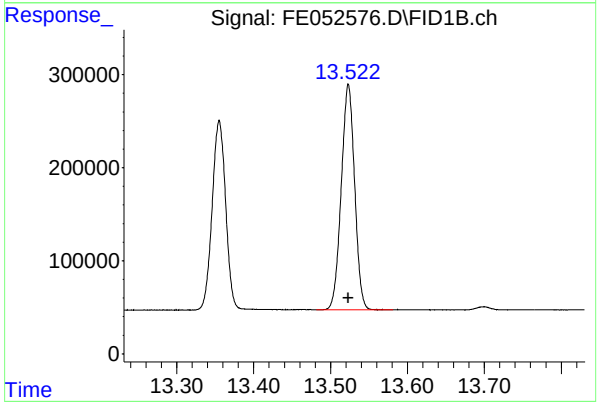
R.T.: 11.910 min
Delta R.T.: 0.000 min
Response: 3456693
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



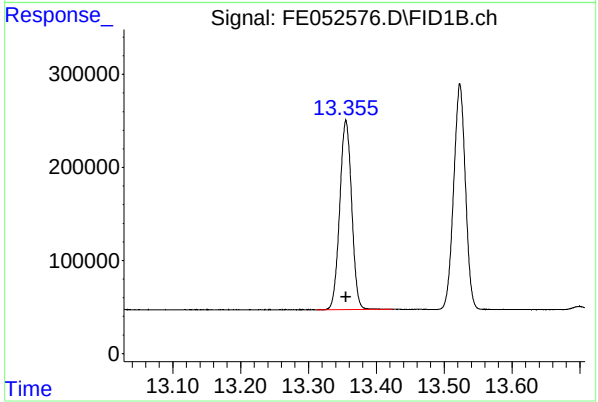
#10 n-Eicosane (C20)

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 2974997
Conc: 20.00 ug/ml



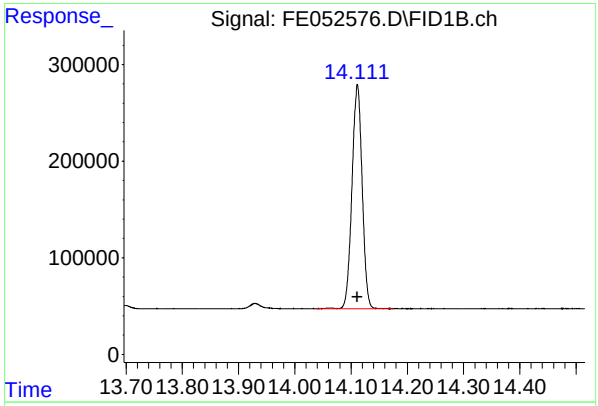
#11 n-Heneicosane (C21)

R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 2917184
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

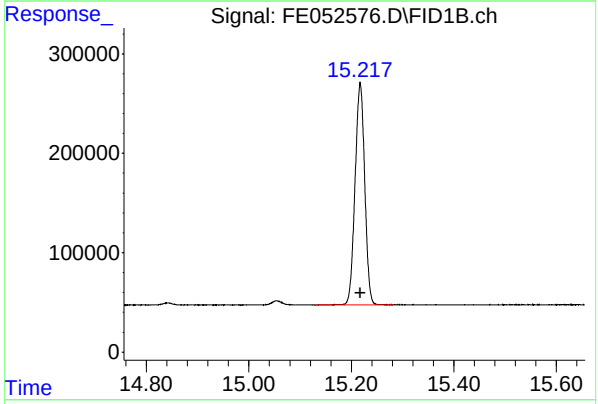
R.T.: 13.355 min
Delta R.T.: 0.000 min
Response: 2487317
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

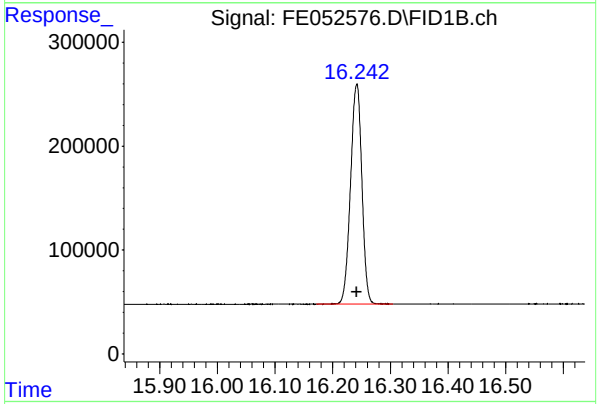
R.T.: 14.111 min
Delta R.T.: 0.000 min
Response: 2918322
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



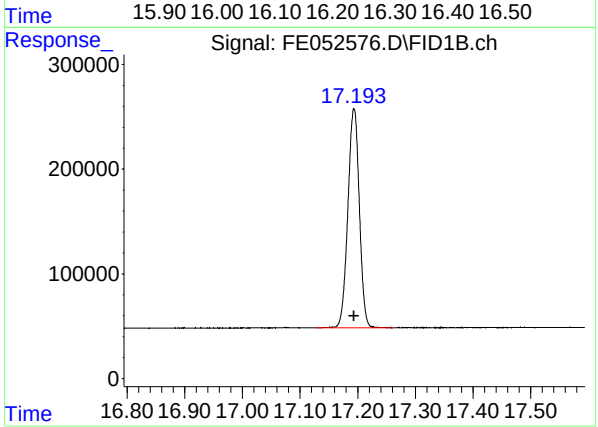
#14 n-Tetracosane (C24)

R.T.: 15.217 min
Delta R.T.: 0.000 min
Response: 2924292
Conc: 20.00 ug/ml



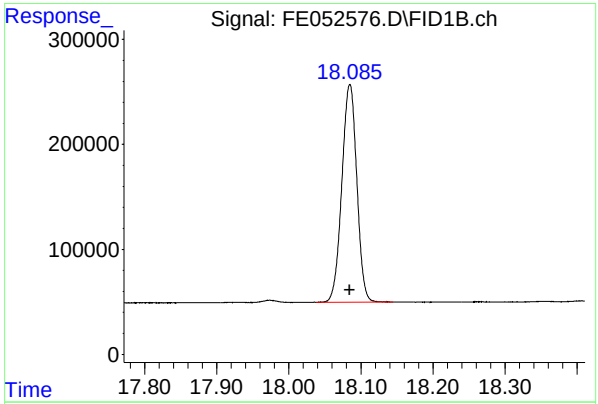
#15 n-Hexacosane (C26)

R.T.: 16.242 min
Delta R.T.: 0.000 min
Response: 2899563
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

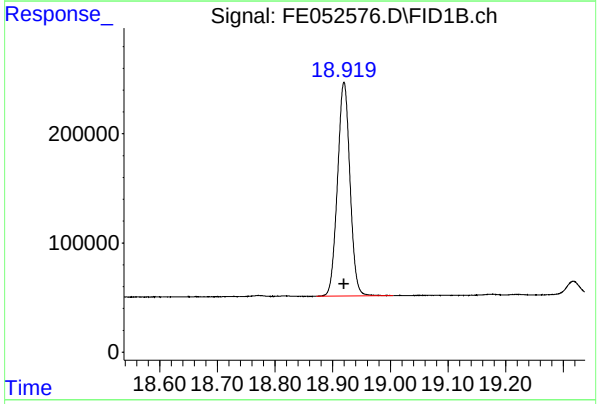
R.T.: 17.194 min
Delta R.T.: 0.000 min
Response: 2897161
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

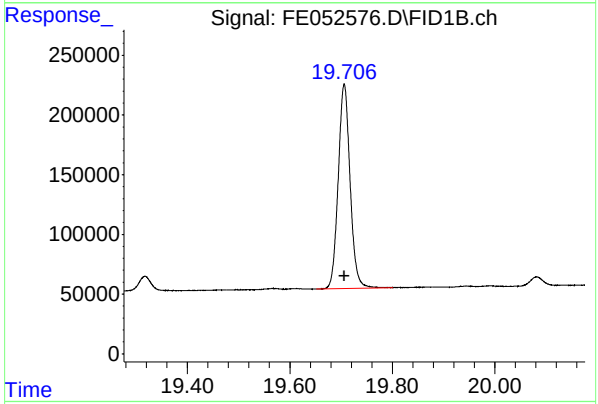
R.T.: 18.085 min
Delta R.T.: 0.000 min
Response: 2992644
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



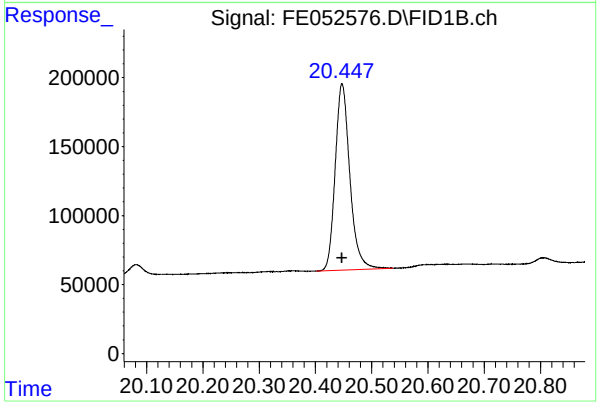
#18 n-Dotriacontane (C32)

R.T.: 18.920 min
Delta R.T.: 0.000 min
Response: 2947304
Conc: 20.00 ug/ml



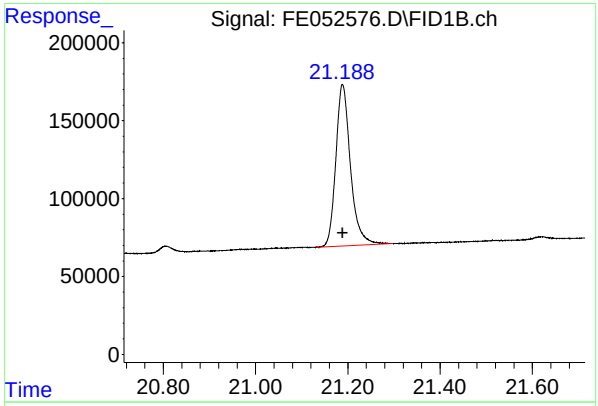
#19 n-Tetratriacontane (C34)

R.T.: 19.706 min
Delta R.T.: 0.000 min
Response: 2747820
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

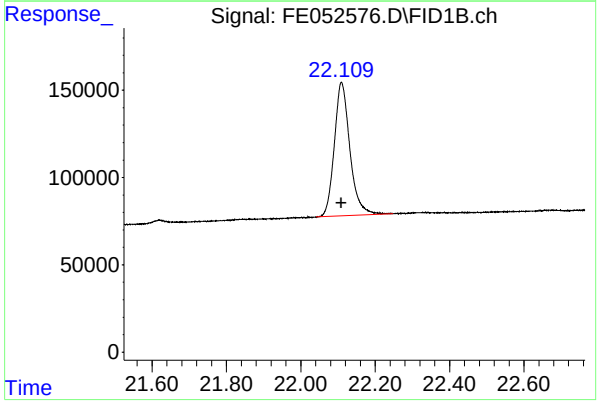
R.T.: 20.448 min
Delta R.T.: 0.000 min
Response: 2440276
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.189 min
Delta R.T.: 0.000 min
Response: 2284145
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.109 min
Delta R.T.: 0.000 min
Response: 2217832
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052576.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:04
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.253	3.218	3.325	BB	314137	3177459	91.03%	4.896%
2	4.514	4.478	4.581	BB	315822	3222867	92.33%	4.966%
3	6.228	6.188	6.325	BB	355761	3490467	100.00%	5.378%
4	6.696	6.655	6.758	BB	311337	3197479	91.61%	4.927%
5	7.330	7.278	7.418	BB	331214	3336499	95.59%	5.141%
6	8.531	8.495	8.598	BB	289879	3109866	89.10%	4.792%
7	10.146	10.105	10.215	BB	282742	3140454	89.97%	4.839%
8	11.595	11.555	11.658	BB	268071	3118030	89.33%	4.804%
9	11.910	11.865	11.971	BB	315131	3456693	99.03%	5.326%
10	12.909	12.871	12.978	BB	241865	2974997	85.23%	4.584%
11	13.355	13.311	13.425	BB	202368	2487317	71.26%	3.833%
12	13.523	13.481	13.581	BB	241268	2917184	83.58%	4.495%
13	14.111	14.038	14.175	BB	232061	2918322	83.61%	4.497%
14	15.217	15.131	15.281	BB	222983	2924292	83.78%	4.506%
15	16.242	16.171	16.305	BB	211679	2899563	83.07%	4.468%
16	17.194	17.128	17.261	BB	210130	2897161	83.00%	4.464%
17	18.085	18.038	18.145	BB	207605	2992644	85.74%	4.611%
18	18.920	18.871	19.005	BB	195997	2947304	84.44%	4.541%
19	19.706	19.651	19.801	BB	170743	2747820	78.72%	4.234%
20	20.448	20.401	20.538	BV	134980	2440276	69.91%	3.760%
21	21.189	21.131	21.298	BB	103725	2284145	65.44%	3.520%
22	22.109	22.041	22.248	BB	76593	2217832	63.54%	3.417%
			Sum of corrected areas:			64898671		

Aliphatic EPH 030325.M Tue Mar 04 04:15:00 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052577.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:34
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Mar 03 12:57:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:57:44 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			
9)	S ortho-Terphenyl (SURR)	11.909	1779109	10.765 ug/ml
	Spiked Amount 50.000		Recovery = 21.53%	
12)	S 1-chlorooctadecane (S...	13.354	1275538	10.683 ug/ml
	Spiked Amount 50.000		Recovery = 21.37%	
	Target Compounds			
1)	T n-Nonane (C9)	3.253	1633896	10.746 ug/ml
2)	T n-Decane (C10)	4.514	1652277	10.732 ug/ml
3)	T A~Naphthalene (C11.7)	6.228	1784418	10.682 ug/ml
4)	T n-Dodecane (C12)	6.695	1640160	10.736 ug/ml
5)	T A~2-methylnaphthalene...	7.330	1702988	10.657 ug/ml
6)	T n-Tetradecane (C14)	8.531	1594378	10.737 ug/ml
7)	T n-Hexadecane (C16)	10.145	1610203	10.737 ug/ml
8)	T n-Octadecane (C18)	11.594	1601994	10.753 ug/ml
10)	T n-Eicosane (C20)	12.909	1536447	10.794 ug/ml
11)	T n-Heneicosane (C21)	13.522	1502197	10.771 ug/ml
13)	T n-Docosane (C22)	14.111	1511879	10.835 ug/ml
14)	T n-Tetracosane (C24)	15.218	1545839	10.994 ug/ml
15)	T n-Hexacosane (C26)	16.242	1542744	11.054 ug/ml
16)	T n-Octacosane (C28)	17.194	1547735	11.154 ug/ml
17)	T n-Tricontane (C30)	18.083	1607077	11.294 ug/ml
18)	T n-Dotriacontane (C32)	18.918	1583504	11.380 ug/ml
19)	T n-Tetratriacontane (C34)	19.705	1456233	11.241 ug/ml
20)	T n-Hexatriacontane (C36)	20.447	1283640	11.138 ug/ml
21)	T n-Octatriacontane (C38)	21.188	1168118	10.818 ug/ml
22)	T n-Tetracontane (C40)	22.109	1142101	10.805 ug/ml

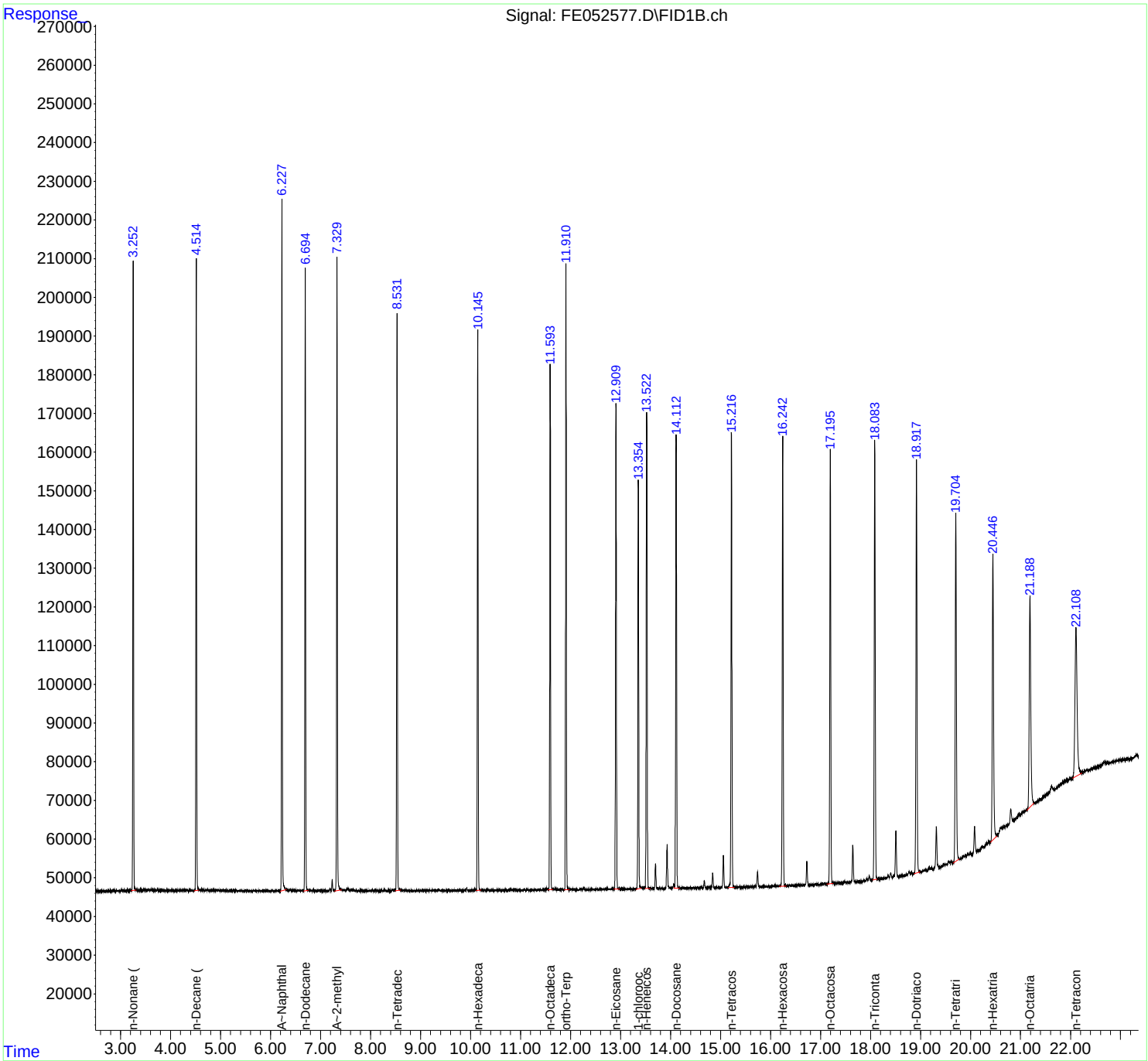
(f)=RT Delta > 1/2 Window (m)=manual int.

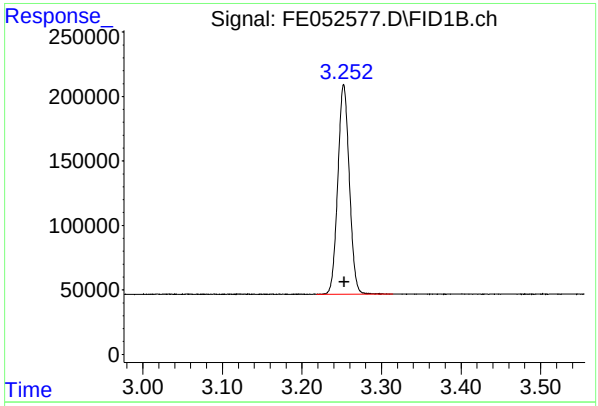
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052577.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:34
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Mar 03 12:57:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:57:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

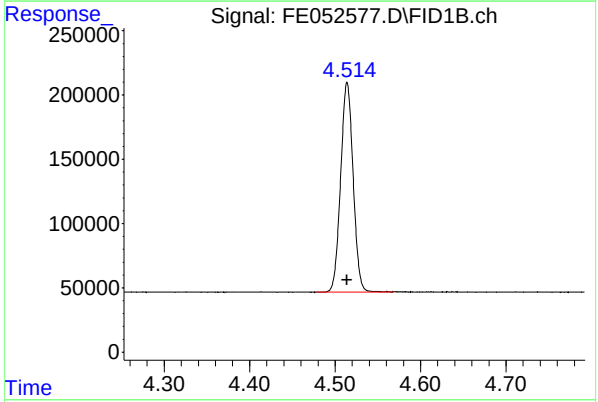




#1 n-Nonane (C9)

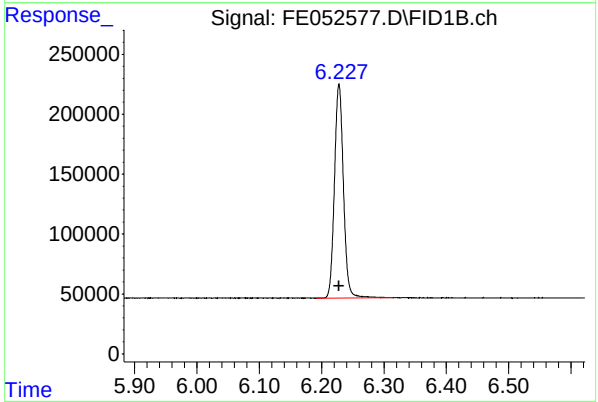
R.T.: 3.253 min
Delta R.T.: 0.000 min
Response: 1633896
Conc: 10.75 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



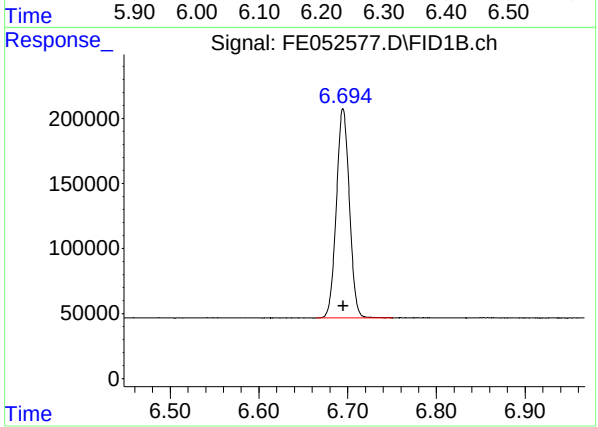
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 1652277
Conc: 10.73 ug/ml



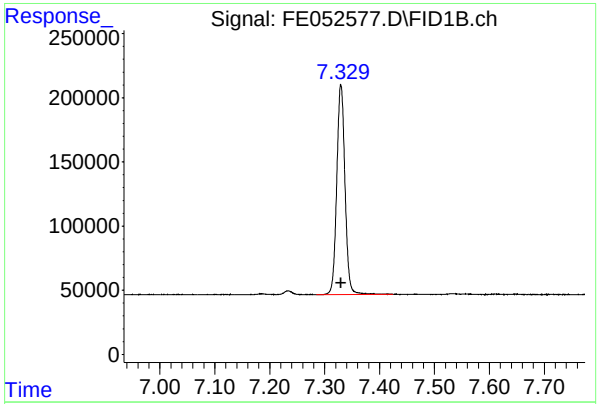
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 1784418
Conc: 10.68 ug/ml



#4 n-Dodecane (C12)

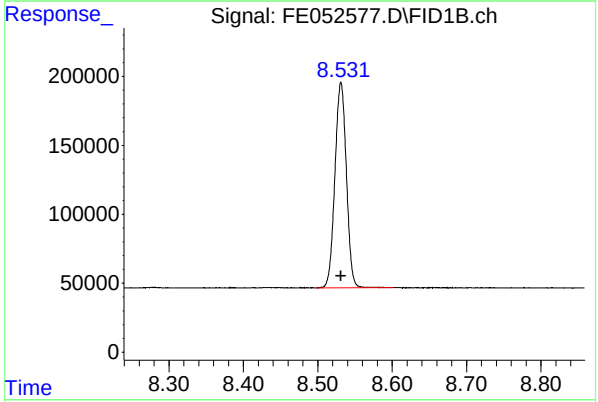
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 1640160
Conc: 10.74 ug/ml



#5 A~2-methylnaphthalene (C12.89)

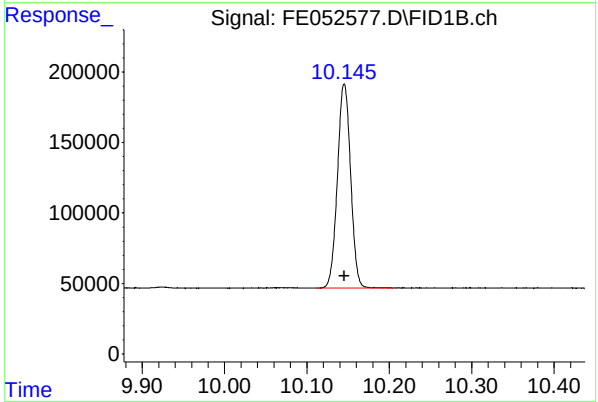
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 1702988
Conc: 10.66 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



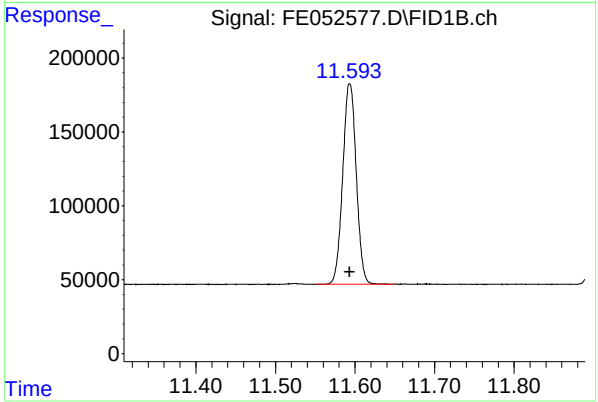
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 1594378
Conc: 10.74 ug/ml



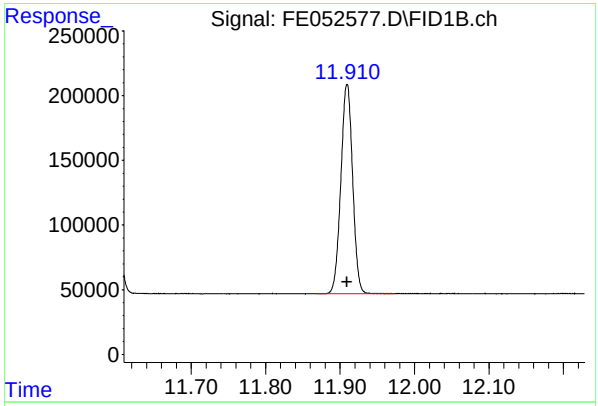
#7 n-Hexadecane (C16)

R.T.: 10.145 min
Delta R.T.: 0.000 min
Response: 1610203
Conc: 10.74 ug/ml



#8 n-Octadecane (C18)

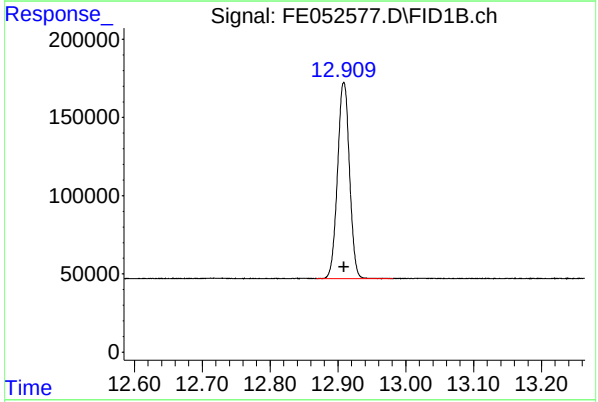
R.T.: 11.594 min
Delta R.T.: 0.000 min
Response: 1601994
Conc: 10.75 ug/ml



#9 ortho-Terphenyl (SURR)

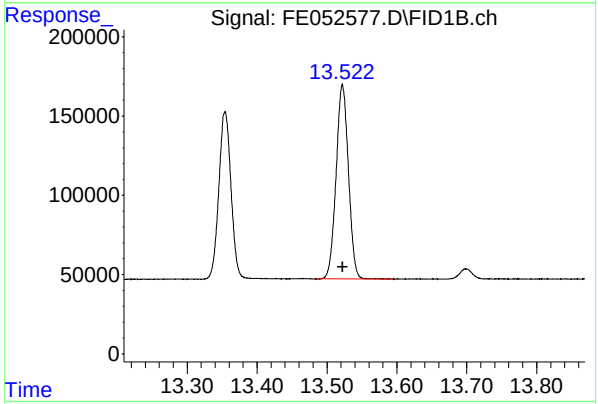
R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 1779109
Conc: 10.77 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



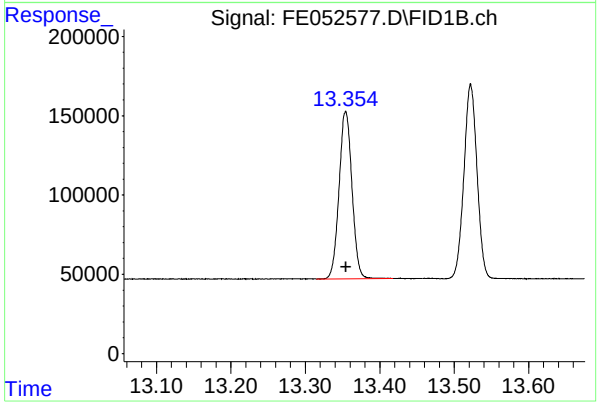
#10 n-Eicosane (C20)

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 1536447
Conc: 10.79 ug/ml



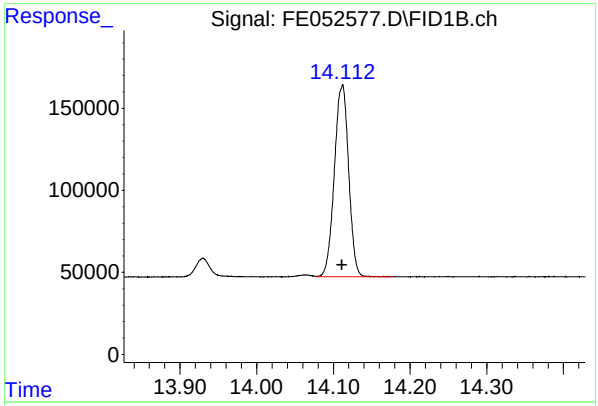
#11 n-Heneicosane (C21)

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 1502197
Conc: 10.77 ug/ml



#12 1-chlorooctadecane (SURR)

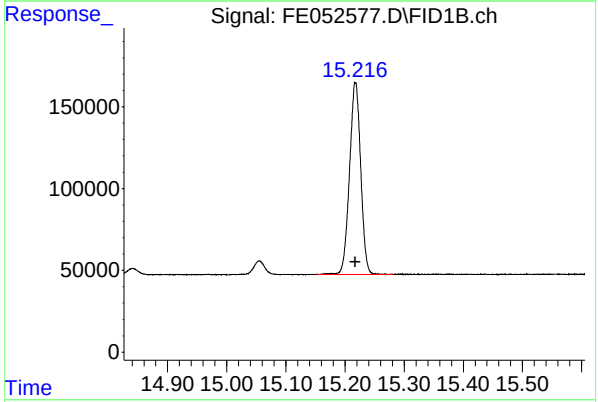
R.T.: 13.354 min
Delta R.T.: 0.000 min
Response: 1275538
Conc: 10.68 ug/ml



#13 n-Docosane (C22)

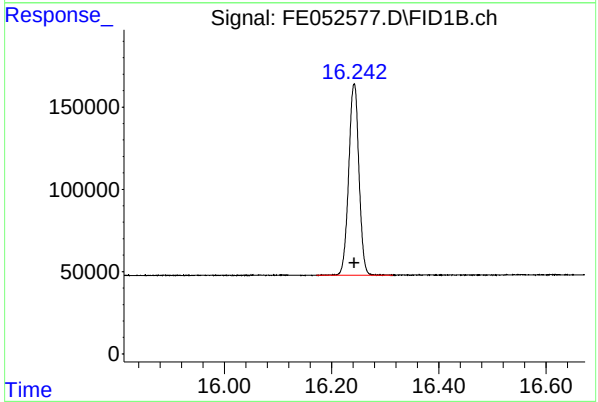
R.T.: 14.111 min
Delta R.T.: 0.000 min
Response: 1511879
Conc: 10.84 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



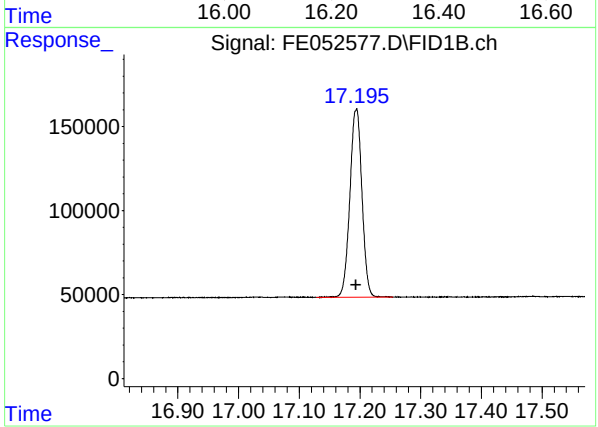
#14 n-Tetracosane (C24)

R.T.: 15.218 min
Delta R.T.: 0.000 min
Response: 1545839
Conc: 10.99 ug/ml



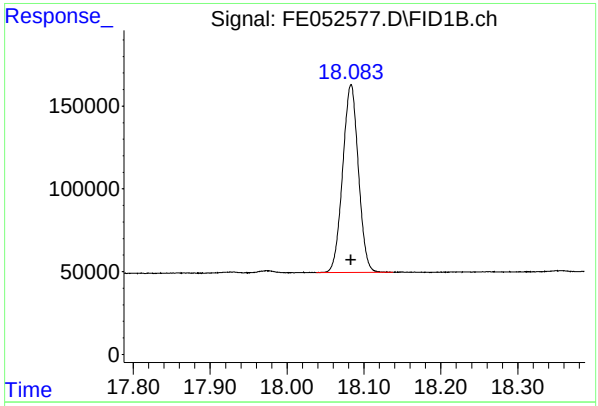
#15 n-Hexacosane (C26)

R.T.: 16.242 min
Delta R.T.: 0.000 min
Response: 1542744
Conc: 11.05 ug/ml



#16 n-Octacosane (C28)

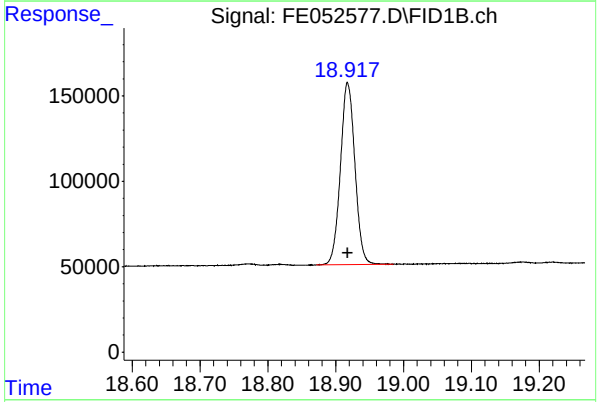
R.T.: 17.194 min
Delta R.T.: 0.000 min
Response: 1547735
Conc: 11.15 ug/ml



#17 n-Tricontane (C30)

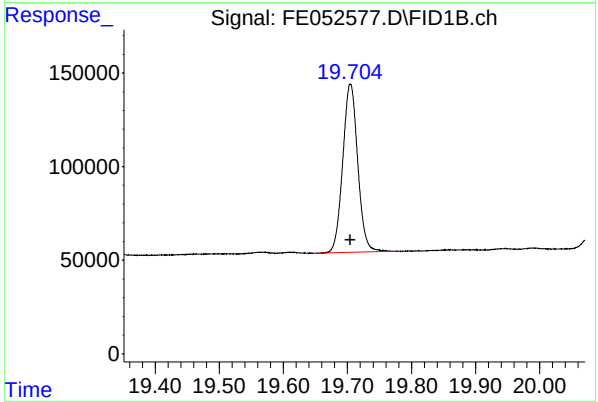
R.T.: 18.083 min
Delta R.T.: 0.000 min
Response: 1607077
Conc: 11.29 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



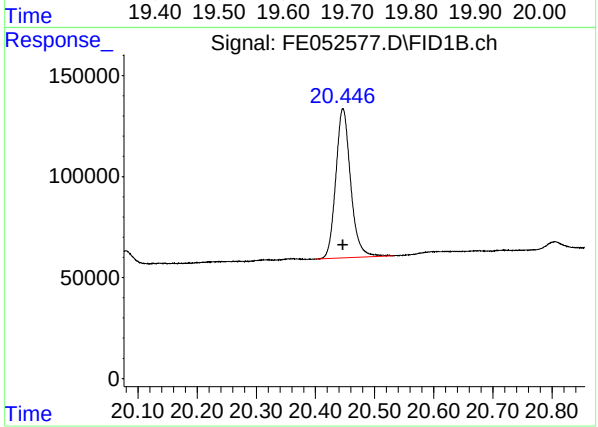
#18 n-Dotriacontane (C32)

R.T.: 18.918 min
Delta R.T.: 0.000 min
Response: 1583504
Conc: 11.38 ug/ml



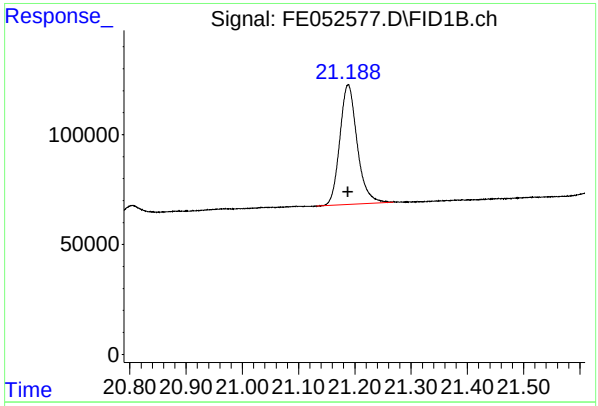
#19 n-Tetratriacontane (C34)

R.T.: 19.705 min
Delta R.T.: 0.000 min
Response: 1456233
Conc: 11.24 ug/ml



#20 n-Hexatriacontane (C36)

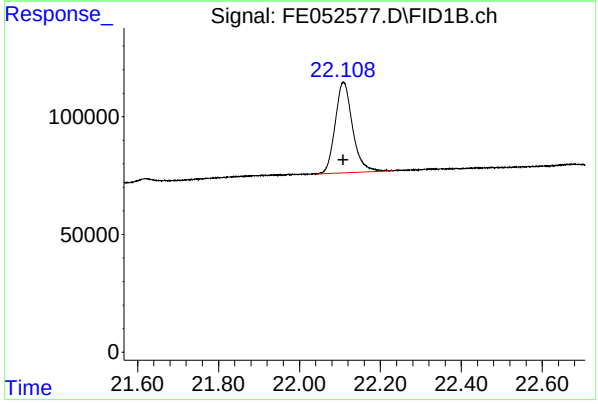
R.T.: 20.447 min
Delta R.T.: 0.000 min
Response: 1283640
Conc: 11.14 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.188 min
Delta R.T.: 0.000 min
Response: 1168118
Conc: 10.82 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.109 min
Delta R.T.: 0.000 min
Response: 1142101
Conc: 10.81 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052577.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:34
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.253	3.218	3.314	BB	161729	1633896	91.56%	4.848%
2	4.514	4.478	4.568	BB	162683	1652277	92.59%	4.903%
3	6.228	6.191	6.314	BB	178423	1784418	100.00%	5.295%
4	6.695	6.664	6.751	BB	160841	1640160	91.92%	4.867%
5	7.330	7.284	7.424	BB	162983	1702988	95.44%	5.053%
6	8.531	8.498	8.601	BB	148819	1594378	89.35%	4.731%
7	10.145	10.111	10.204	BB	145207	1610203	90.24%	4.778%
8	11.594	11.551	11.648	BB	135761	1601994	89.78%	4.753%
9	11.909	11.868	11.971	BB	162025	1779109	99.70%	5.279%
10	12.909	12.868	12.981	BB	125833	1536447	86.10%	4.559%
11	13.354	13.314	13.418	BB	105376	1275538	71.48%	3.785%
12	13.522	13.484	13.594	BB	122287	1502197	84.18%	4.457%
13	14.111	14.078	14.178	VB	116146	1511879	84.73%	4.486%
14	15.218	15.151	15.281	BB	117810	1545839	86.63%	4.587%
15	16.242	16.171	16.314	BB	116219	1542744	86.46%	4.578%
16	17.194	17.128	17.254	BB	112172	1547735	86.74%	4.592%
17	18.083	18.038	18.138	BB	113962	1607077	90.06%	4.768%
18	18.918	18.871	18.984	BB	106365	1583504	88.74%	4.698%
19	19.705	19.651	19.771	BB	90061	1456233	81.61%	4.321%
20	20.447	20.401	20.531	BB	73836	1283640	71.94%	3.809%
21	21.188	21.131	21.268	BB	54530	1168118	65.46%	3.466%
22	22.109	22.041	22.231	BB	38465	1142101	64.00%	3.389%

Sum of corrected areas: 33702476

Aliphatic EPH 030325.M Tue Mar 04 04:15:29 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052578.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:04
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Mar 03 13:38:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:37:33 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			
9) S	ortho-Terphenyl (SURR)	11.909	909430	5.394 ug/ml
Spiked Amount	50.000		Recovery =	10.79%
12) S	1-chlorooctadecane (S...	13.354	647768	5.335 ug/ml
Spiked Amount	50.000		Recovery =	10.67%
	Target Compounds			
1) T	n-Nonane (C9)	3.252	835200	5.387 ug/ml
2) T	n-Decane (C10)	4.514	848233	5.399 ug/ml
3) T	A~Naphthalene (C11.7)	6.228	898827	5.300 ug/ml
4) T	n-Dodecane (C12)	6.695	837084	5.376 ug/ml
5) T	A~2-methylnaphthalene...	7.330	855434	5.279 ug/ml
6) T	n-Tetradecane (C14)	8.531	812990	5.373 ug/ml
7) T	n-Hexadecane (C16)	10.145	822877	5.382 ug/ml
8) T	n-Octadecane (C18)	11.593	823940	5.416 ug/ml
10) T	n-Eicosane (C20)	12.908	782621	5.391 ug/ml
11) T	n-Heneicosane (C21)	13.522	768847	5.402 ug/ml
13) T	n-Docosane (C22)	14.110	767013	5.390 ug/ml
14) T	n-Tetracosane (C24)	15.216	765651	5.350 ug/ml
15) T	n-Hexacosane (C26)	16.241	763577	5.370 ug/ml
16) T	n-Octacosane (C28)	17.192	779784	5.484 ug/ml
17) T	n-Tricontane (C30)	18.083	846559	5.732 ug/ml
18) T	n-Dotriacontane (C32)	18.917	846558	5.831 ug/ml
19) T	n-Tetratriacontane (C34)	19.703	778580	5.777 ug/ml
20) T	n-Hexatriacontane (C36)	20.445	665672	5.602 ug/ml
21) T	n-Octatriacontane (C38)	21.185	613739	5.532 ug/ml
22) T	n-Tetracontane (C40)	22.104	588940	5.447 ug/ml

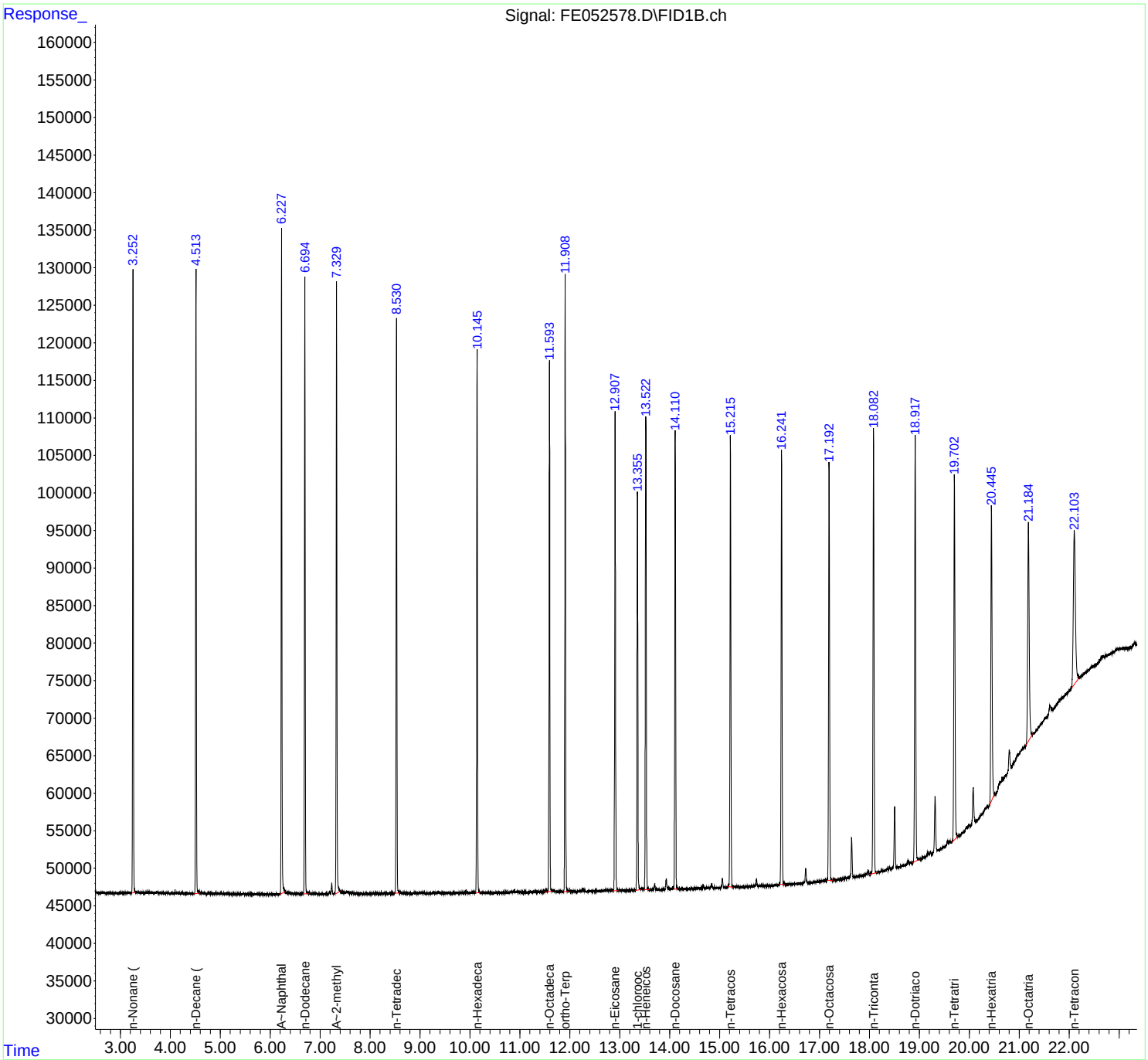
(f)=RT Delta > 1/2 Window (m)=manual int.

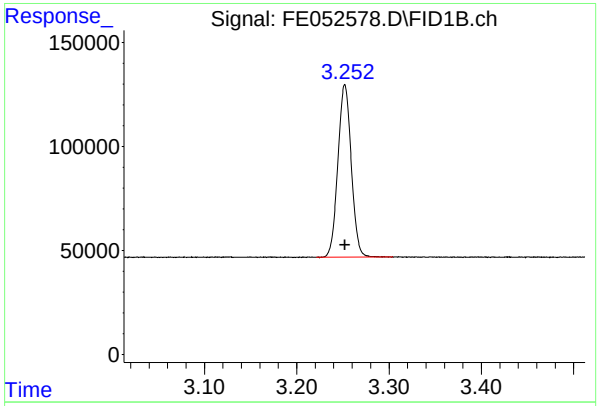
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052578.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:04
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Mar 03 13:38:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:37:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

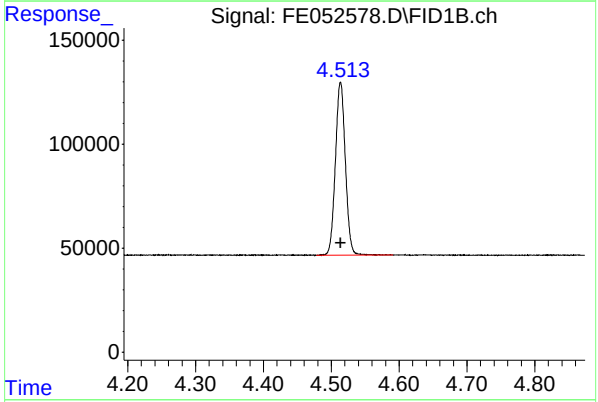




#1 n-Nonane (C9)

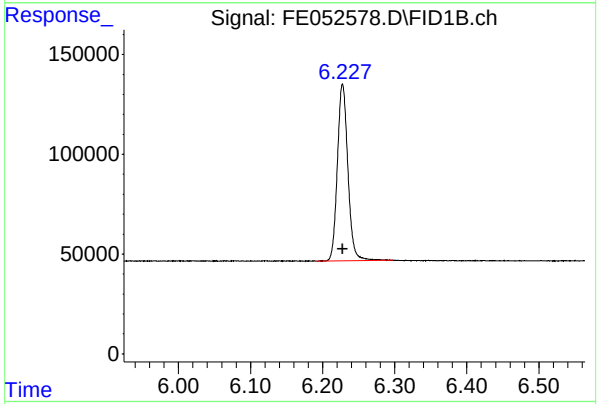
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 835200
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



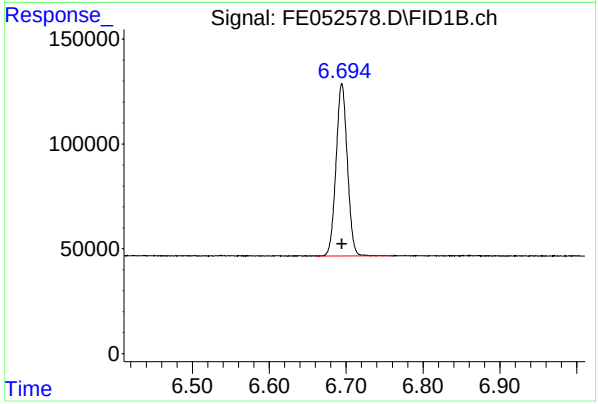
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 848233
Conc: 5.40 ug/ml



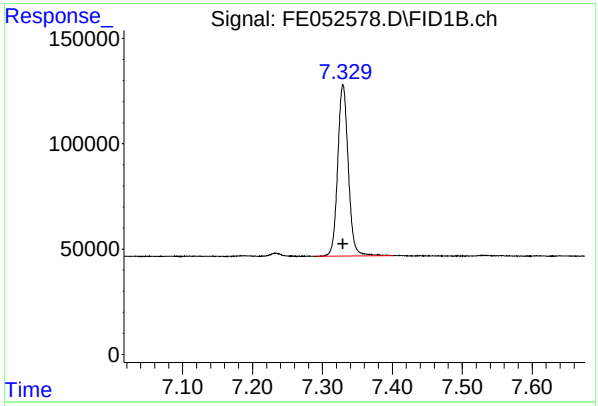
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 898827
Conc: 5.30 ug/ml



#4 n-Dodecane (C12)

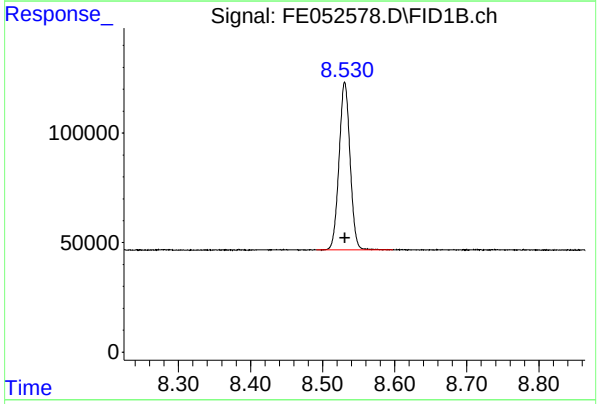
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 837084
Conc: 5.38 ug/ml



#5 A~2-methylnaphthalene (C12.89)

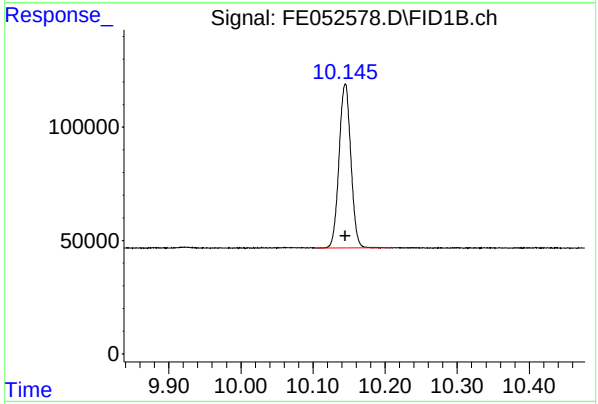
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 855434
Conc: 5.28 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



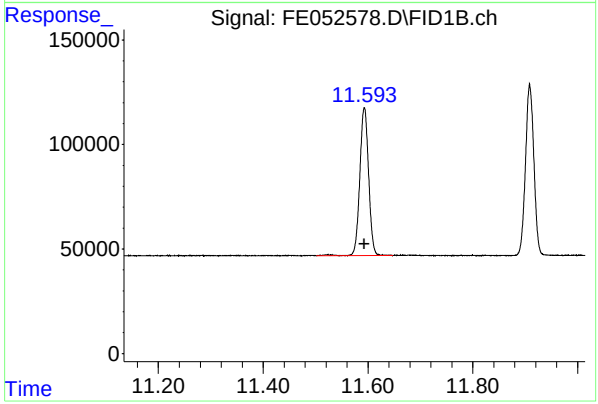
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 812990
Conc: 5.37 ug/ml



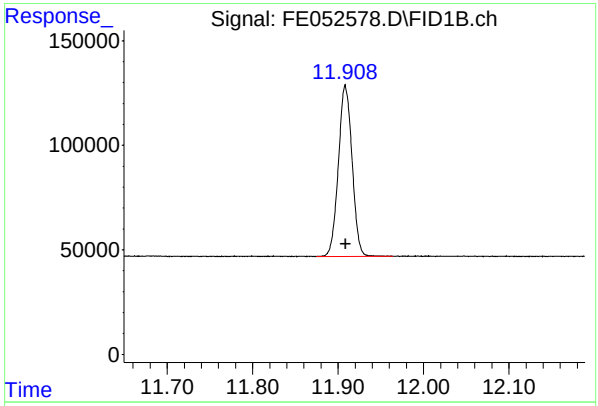
#7 n-Hexadecane (C16)

R.T.: 10.145 min
Delta R.T.: 0.000 min
Response: 822877
Conc: 5.38 ug/ml



#8 n-Octadecane (C18)

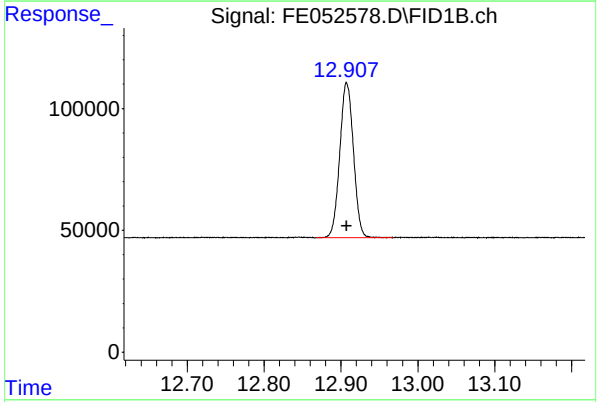
R.T.: 11.593 min
Delta R.T.: 0.000 min
Response: 823940
Conc: 5.42 ug/ml



#9 ortho-Terphenyl (SURR)

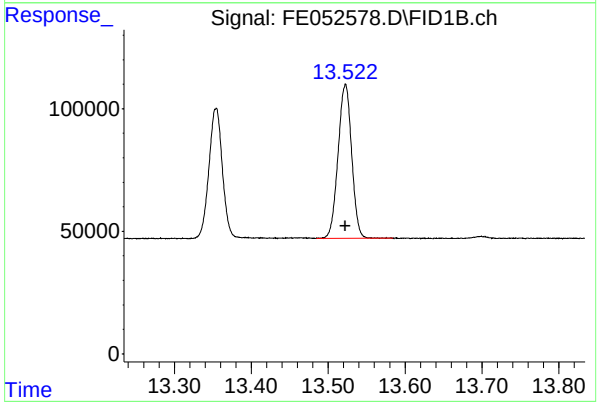
R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 909430
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



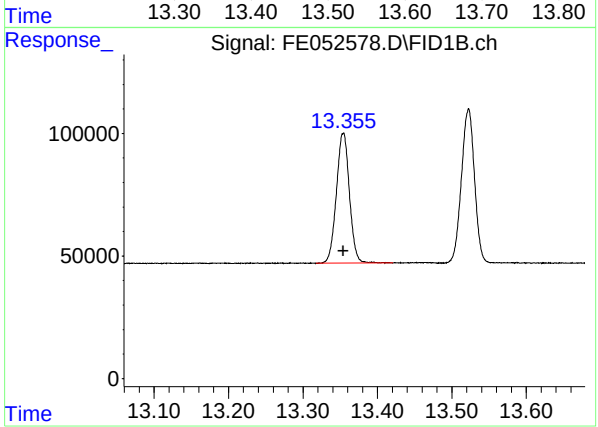
#10 n-Eicosane (C20)

R.T.: 12.908 min
Delta R.T.: 0.000 min
Response: 782621
Conc: 5.39 ug/ml



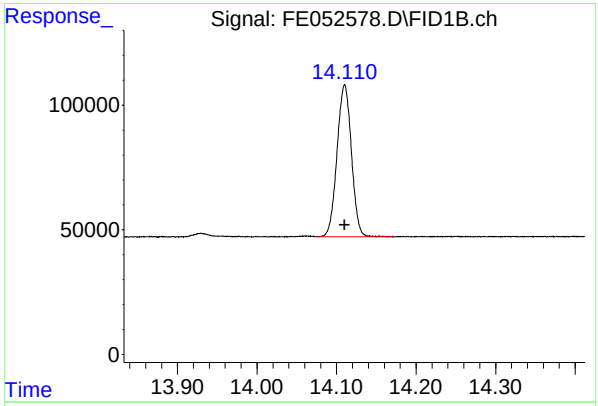
#11 n-Heneicosane (C21)

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 768847
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

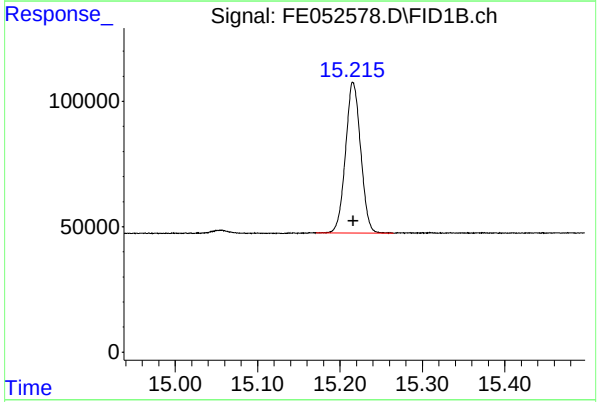
R.T.: 13.354 min
Delta R.T.: 0.000 min
Response: 647768
Conc: 5.33 ug/ml



#13 n-Docosane (C22)

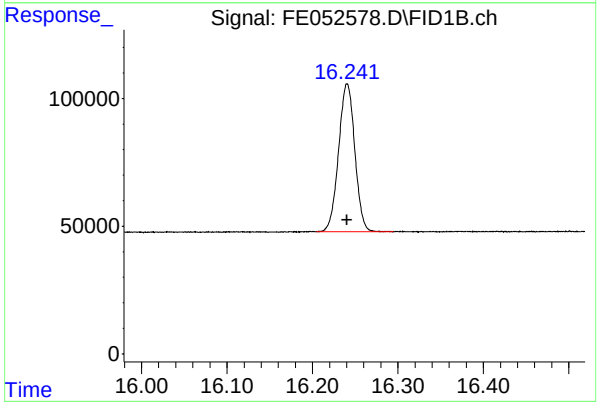
R.T.: 14.110 min
Delta R.T.: 0.000 min
Response: 767013
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



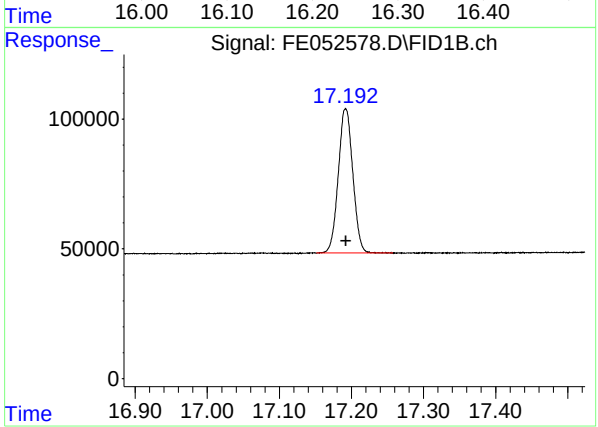
#14 n-Tetracosane (C24)

R.T.: 15.216 min
Delta R.T.: 0.000 min
Response: 765651
Conc: 5.35 ug/ml



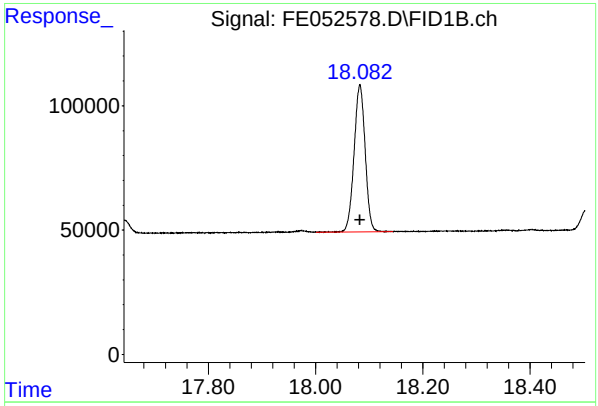
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 763577
Conc: 5.37 ug/ml



#16 n-Octacosane (C28)

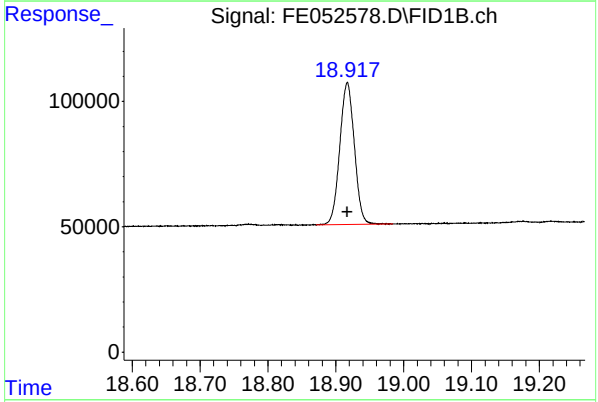
R.T.: 17.192 min
Delta R.T.: 0.000 min
Response: 779784
Conc: 5.48 ug/ml



#17 n-Tricontane (C30)

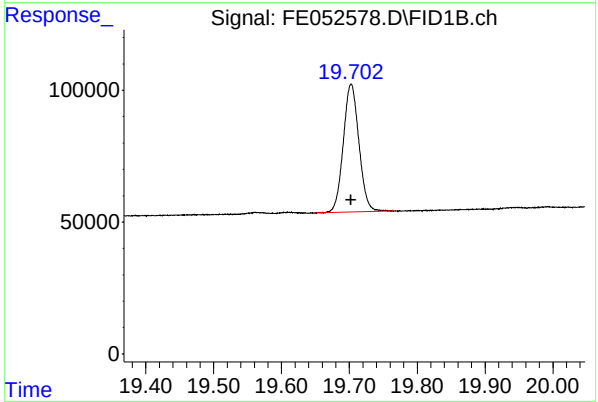
R.T.: 18.083 min
Delta R.T.: 0.000 min
Response: 846559
Conc: 5.73 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



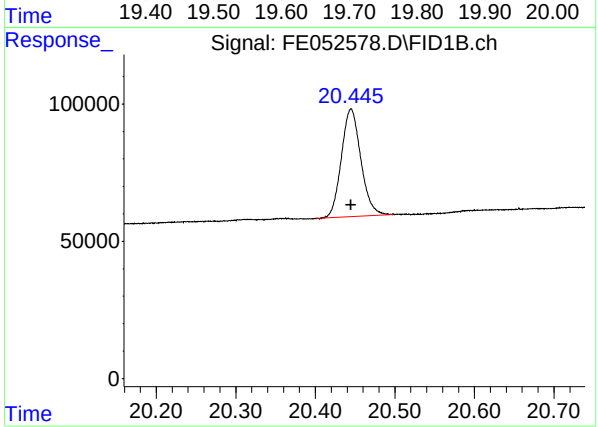
#18 n-Dotriacontane (C32)

R.T.: 18.917 min
Delta R.T.: 0.000 min
Response: 846558
Conc: 5.83 ug/ml



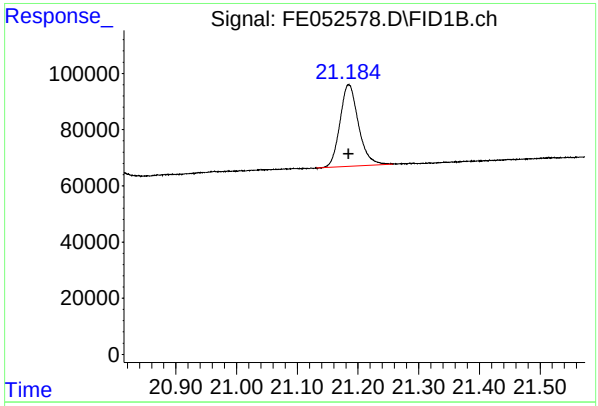
#19 n-Tetratriacontane (C34)

R.T.: 19.703 min
Delta R.T.: 0.000 min
Response: 778580
Conc: 5.78 ug/ml



#20 n-Hexatriacontane (C36)

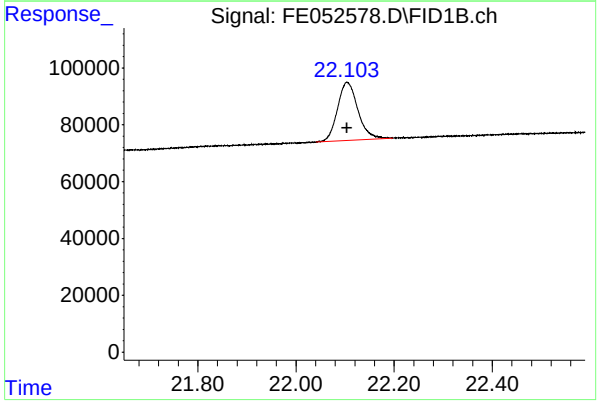
R.T.: 20.445 min
Delta R.T.: 0.000 min
Response: 665672
Conc: 5.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.185 min
Delta R.T.: 0.000 min
Response: 613739
Conc: 5.53 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.104 min
Delta R.T.: 0.000 min
Response: 588940
Conc: 5.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052578.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:04
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.252	3.221	3.304	BB	82567	835200	91.84%	4.839%
2	4.514	4.478	4.591	BB	83234	848233	93.27%	4.915%
3	6.228	6.191	6.298	BB	88505	898827	98.83%	5.208%
4	6.695	6.661	6.761	BB	82093	837084	92.04%	4.850%
5	7.330	7.291	7.401	BB	81098	855434	94.06%	4.956%
6	8.531	8.491	8.598	BB	76461	812990	89.40%	4.710%
7	10.145	10.104	10.211	BB	72313	822877	90.48%	4.768%
8	11.593	11.501	11.648	BB	70861	823940	90.60%	4.774%
9	11.909	11.874	11.964	BB	81463	909430	100.00%	5.269%
10	12.908	12.868	12.968	BB	63441	782621	86.06%	4.534%
11	13.354	13.318	13.421	BB	53208	647768	71.23%	3.753%
12	13.522	13.484	13.584	BB	62420	768847	84.54%	4.455%
13	14.110	14.074	14.171	BB	61042	767013	84.34%	4.444%
14	15.216	15.171	15.264	BB	59393	765651	84.19%	4.436%
15	16.241	16.204	16.294	BB	57980	763577	83.96%	4.424%
16	17.192	17.151	17.258	BB	55884	779784	85.74%	4.518%
17	18.083	18.001	18.144	BB	58718	846559	93.09%	4.905%
18	18.917	18.871	18.984	BB	56748	846558	93.09%	4.905%
19	19.703	19.651	19.764	BB	48522	778580	85.61%	4.511%
20	20.445	20.401	20.498	BB	39239	665672	73.20%	3.857%
21	21.185	21.131	21.258	BB	29081	613739	67.49%	3.556%
22	22.104	22.041	22.198	BB	20470	588940	64.76%	3.412%
			Sum of corrected areas:			17259325		

Aliphatic EPH 030325.M Tue Mar 04 04:15:51 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052579.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:35
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

12

A B C D E F G H I J

Integration File: autoint1.e
Quant Time: Mar 03 14:00:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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			
9) S	ortho-Terphenyl (SURR)	11.911	3455691	20.498 ug/ml
Spiked Amount	50.000		Recovery =	41.00%
12) S	1-chlorooctadecane (S...	13.356	2497681	20.570 ug/ml
Spiked Amount	50.000		Recovery =	41.14%
	Target Compounds			
1) T	n-Nonane (C9)	3.252	3187537	20.558 ug/ml
2) T	n-Decane (C10)	4.514	3233718	20.584 ug/ml
3) T	A~Naphthalene (C11.7)	6.228	3492595	20.594 ug/ml
4) T	n-Dodecane (C12)	6.696	3203904	20.578 ug/ml
5) T	A~2-methylnaphthalene...	7.330	3339319	20.606 ug/ml
6) T	n-Tetradecane (C14)	8.532	3105696	20.525 ug/ml
7) T	n-Hexadecane (C16)	10.147	3133929	20.498 ug/ml
8) T	n-Octadecane (C18)	11.595	3112121	20.455 ug/ml
10) T	n-Eicosane (C20)	12.910	2971006	20.465 ug/ml
11) T	n-Heneicosane (C21)	13.524	2915343	20.483 ug/ml
13) T	n-Docosane (C22)	14.111	2909985	20.448 ug/ml
14) T	n-Tetracosane (C24)	15.219	2928929	20.466 ug/ml
15) T	n-Hexacosane (C26)	16.241	2909458	20.461 ug/ml
16) T	n-Octacosane (C28)	17.194	2913880	20.492 ug/ml
17) T	n-Tricontane (C30)	18.084	3032387	20.531 ug/ml
18) T	n-Dotriacontane (C32)	18.919	2988204	20.583 ug/ml
19) T	n-Tetratriacontane (C34)	19.705	2786554	20.675 ug/ml
20) T	n-Hexatriacontane (C36)	20.448	2490703	20.961 ug/ml
21) T	n-Octatriacontane (C38)	21.189	2317135	20.887 ug/ml
22) T	n-Tetracontane (C40)	22.111	2256635	20.872 ug/ml

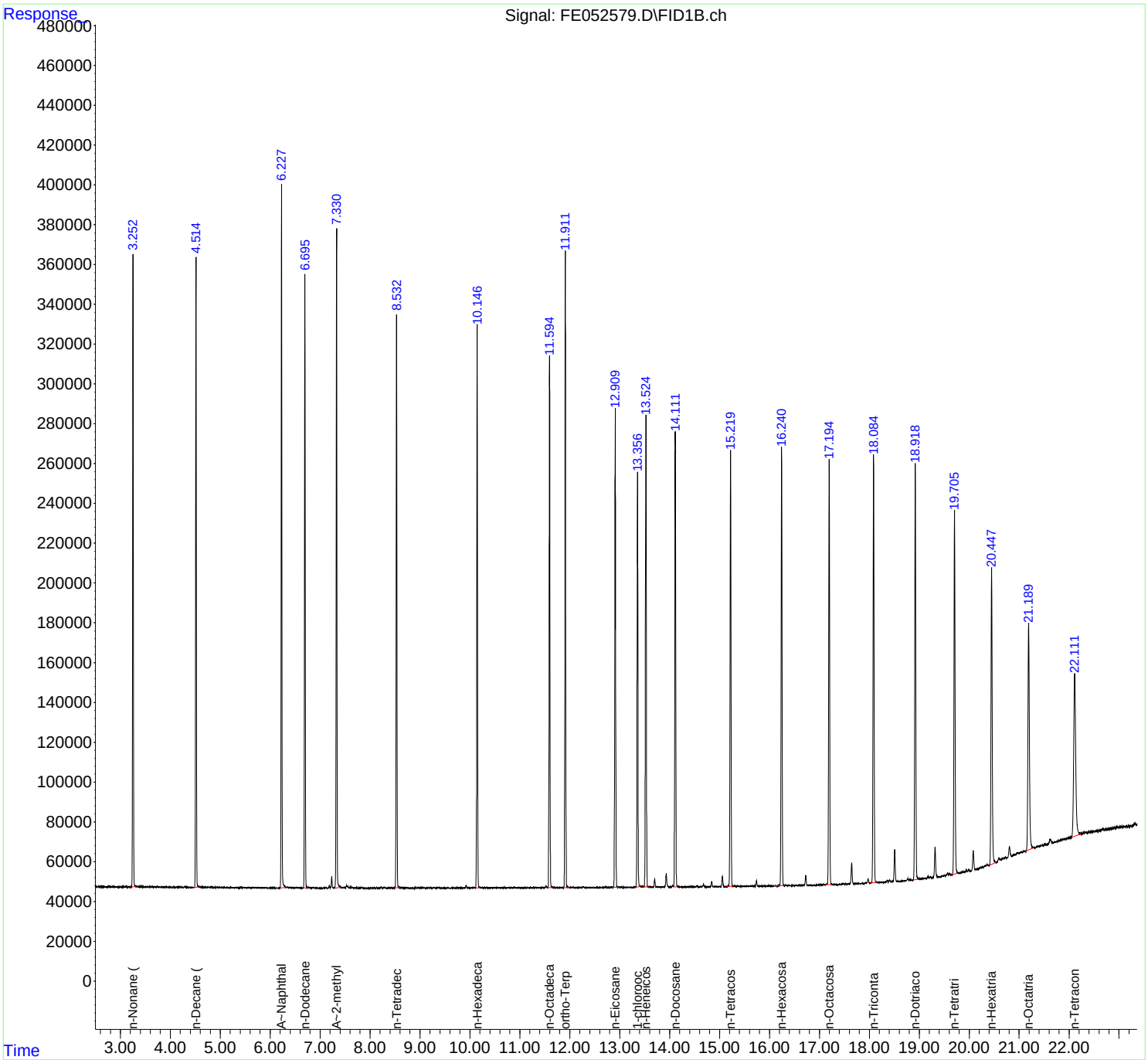
(f)=RT Delta > 1/2 Window (m)=manual int.

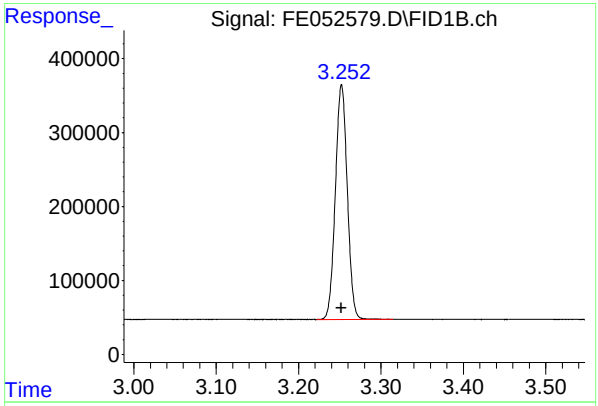
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052579.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:35
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:00:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

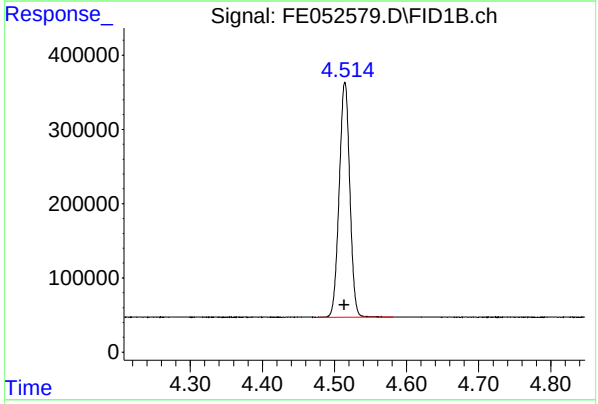




#1 n-Nonane (C9)

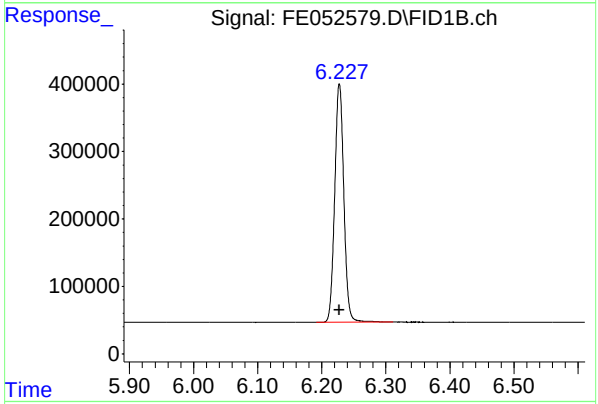
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 3187537
Conc: 20.56 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



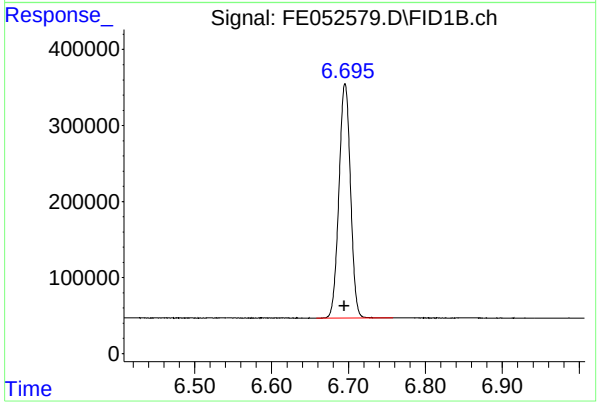
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 3233718
Conc: 20.58 ug/ml



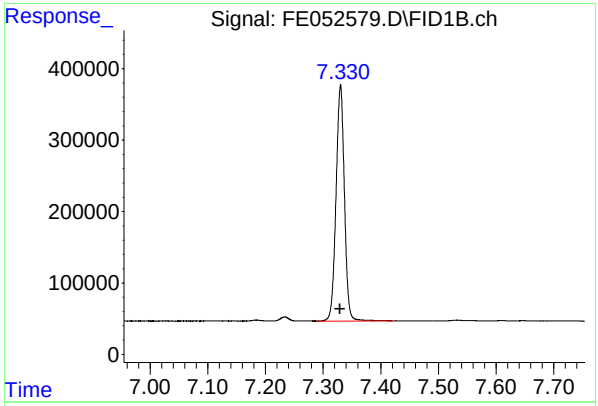
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 3492595
Conc: 20.59 ug/ml



#4 n-Dodecane (C12)

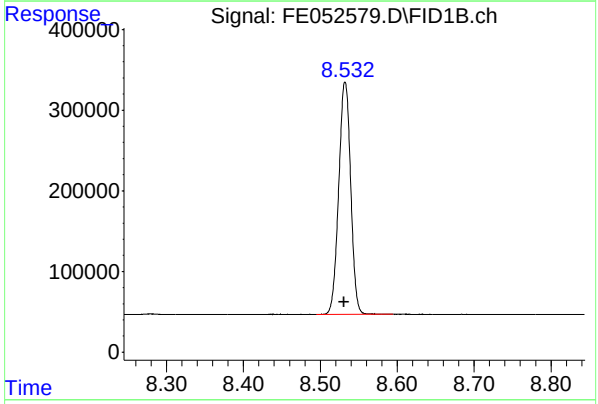
R.T.: 6.696 min
Delta R.T.: 0.000 min
Response: 3203904
Conc: 20.58 ug/ml



#5 A~2-methylnaphthalene (C12.89)

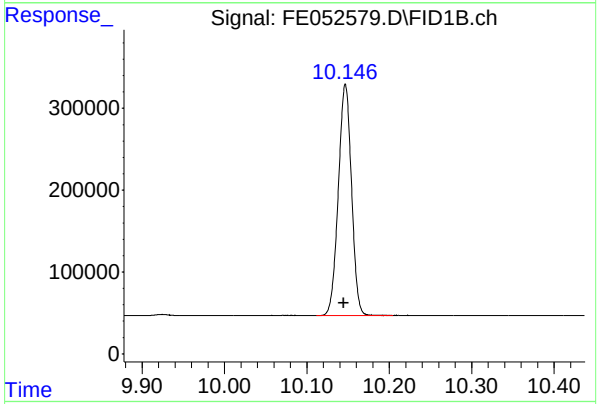
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 3339319
Conc: 20.61 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



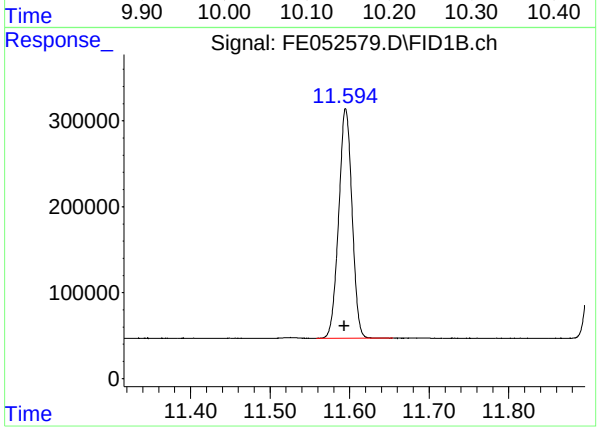
#6 n-Tetradecane (C14)

R.T.: 8.532 min
Delta R.T.: 0.001 min
Response: 3105696
Conc: 20.53 ug/ml



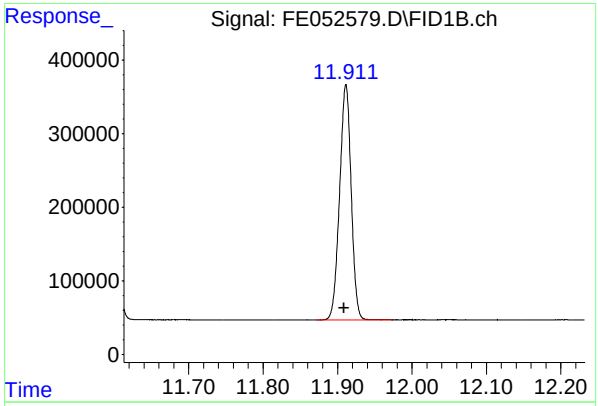
#7 n-Hexadecane (C16)

R.T.: 10.147 min
Delta R.T.: 0.002 min
Response: 3133929
Conc: 20.50 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.595 min
Delta R.T.: 0.002 min
Response: 3112121
Conc: 20.46 ug/ml



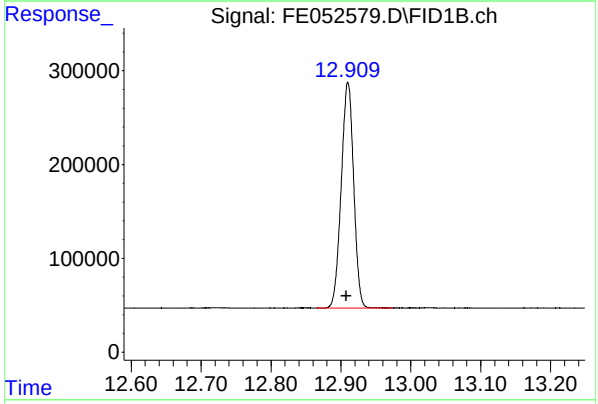
#9 ortho-Terphenyl (SURR)

R.T.: 11.911 min
Delta R.T.: 0.003 min
Response: 3455691
Conc: 20.50 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

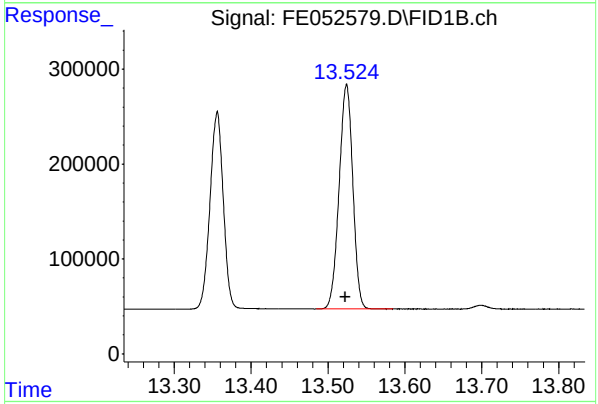
12

A B C D E F G H I J



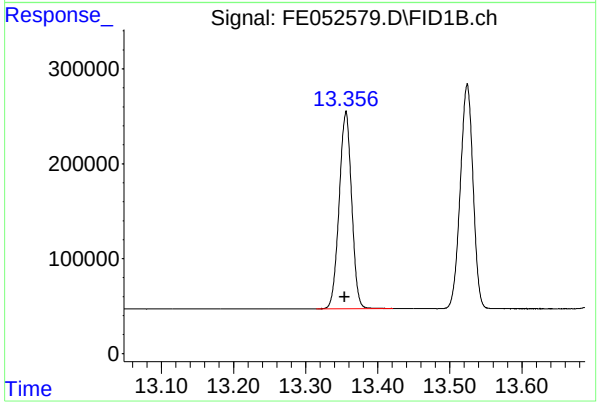
#10 n-Eicosane (C20)

R.T.: 12.910 min
Delta R.T.: 0.002 min
Response: 2971006
Conc: 20.47 ug/ml



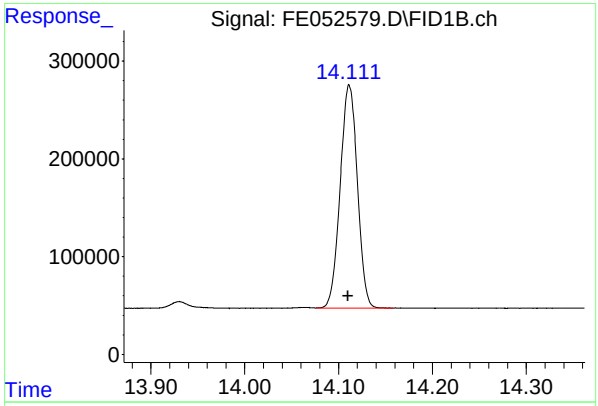
#11 n-Heneicosane (C21)

R.T.: 13.524 min
Delta R.T.: 0.002 min
Response: 2915343
Conc: 20.48 ug/ml



#12 1-chlorooctadecane (SURR)

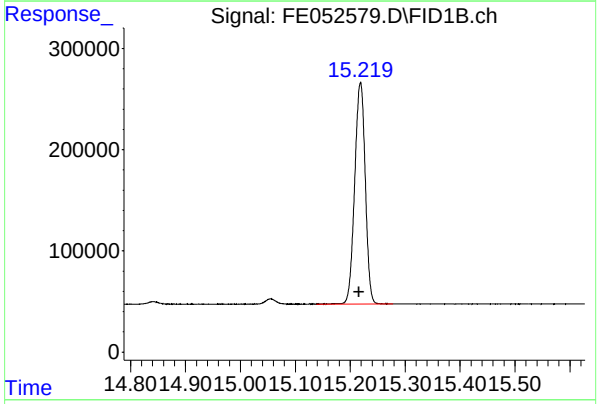
R.T.: 13.356 min
Delta R.T.: 0.002 min
Response: 2497681
Conc: 20.57 ug/ml



#13 n-Docosane (C22)

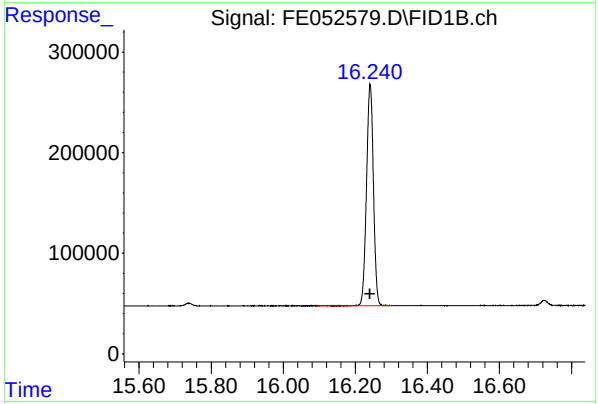
R.T.: 14.111 min
Delta R.T.: 0.001 min
Response: 2909985
Conc: 20.45 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



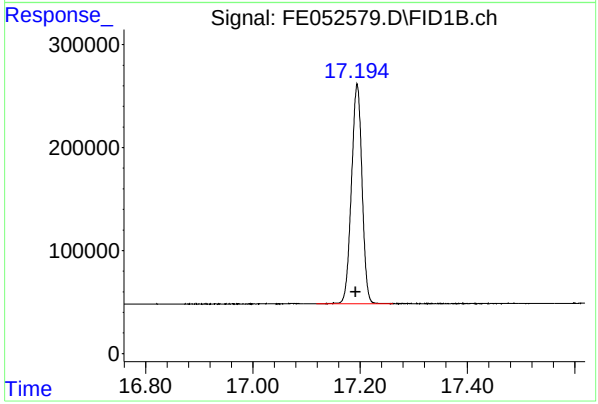
#14 n-Tetracosane (C24)

R.T.: 15.219 min
Delta R.T.: 0.003 min
Response: 2928929
Conc: 20.47 ug/ml



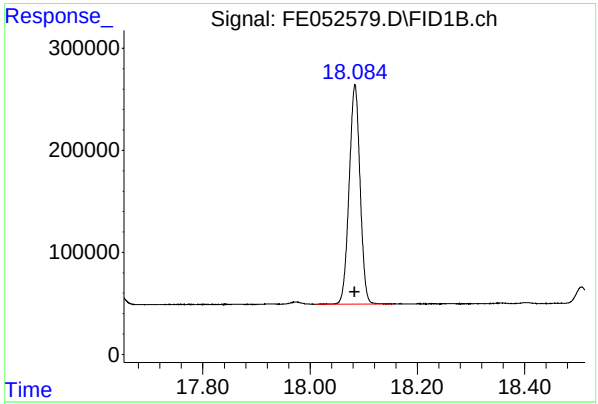
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 2909458
Conc: 20.46 ug/ml



#16 n-Octacosane (C28)

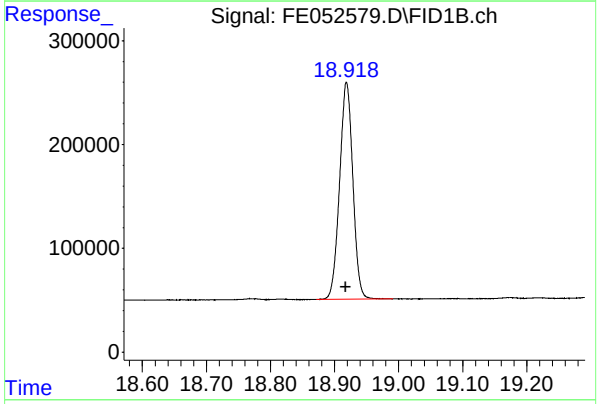
R.T.: 17.194 min
Delta R.T.: 0.002 min
Response: 2913880
Conc: 20.49 ug/ml



#17 n-Tricontane (C30)

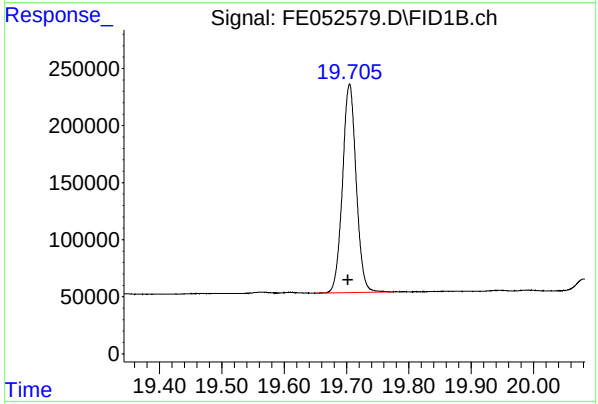
R.T.: 18.084 min
Delta R.T.: 0.001 min
Response: 3032387
Conc: 20.53 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



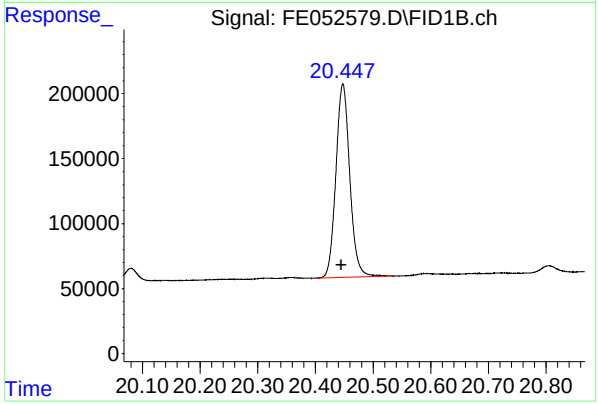
#18 n-Dotriacontane (C32)

R.T.: 18.919 min
Delta R.T.: 0.002 min
Response: 2988204
Conc: 20.58 ug/ml



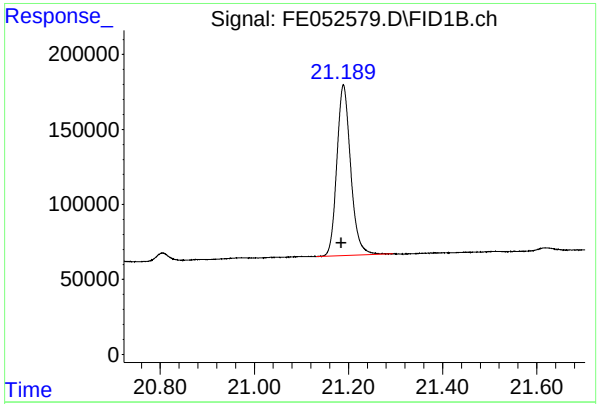
#19 n-Tetratriacontane (C34)

R.T.: 19.705 min
Delta R.T.: 0.002 min
Response: 2786554
Conc: 20.67 ug/ml



#20 n-Hexatriacontane (C36)

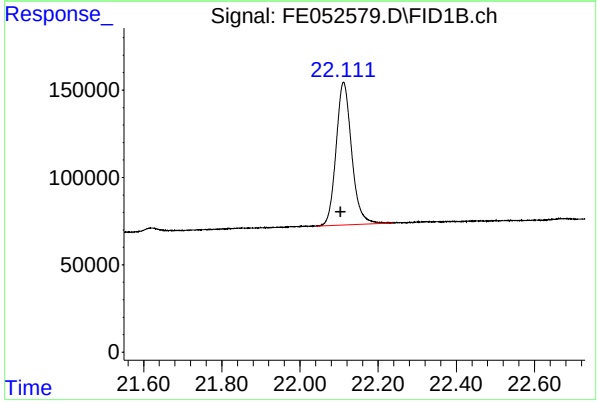
R.T.: 20.448 min
Delta R.T.: 0.003 min
Response: 2490703
Conc: 20.96 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.189 min
Delta R.T.: 0.005 min
Response: 2317135
Conc: 20.89 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.111 min
Delta R.T.: 0.007 min
Response: 2256635
Conc: 20.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052579.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:35
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.252	3.221	3.315	BB	316370	3187537	91.27%	4.890%
2	4.514	4.475	4.581	BB	317352	3233718	92.59%	4.961%
3	6.228	6.191	6.311	BB	353933	3492595	100.00%	5.358%
4	6.696	6.658	6.758	BB	308321	3203904	91.73%	4.915%
5	7.330	7.288	7.421	BB	330915	3339319	95.61%	5.123%
6	8.532	8.495	8.595	BB	289204	3105696	88.92%	4.765%
7	10.147	10.111	10.205	BB	283052	3133929	89.73%	4.808%
8	11.595	11.558	11.655	BB	267693	3112121	89.11%	4.774%
9	11.911	11.871	11.975	BB	320258	3455691	98.94%	5.302%
10	12.910	12.865	12.975	BB	241076	2971006	85.07%	4.558%
11	13.356	13.315	13.421	BB	205009	2497681	71.51%	3.832%
12	13.524	13.485	13.585	BB	236434	2915343	83.47%	4.473%
13	14.111	14.076	14.158	VB	228081	2909985	83.32%	4.464%
14	15.219	15.138	15.278	BB	218919	2928929	83.86%	4.493%
15	16.241	16.091	16.305	BB	220045	2909458	83.30%	4.464%
16	17.194	17.118	17.261	BB	212865	2913880	83.43%	4.470%
17	18.084	18.011	18.155	BB	215009	3032387	86.82%	4.652%
18	18.919	18.871	18.991	BB	209239	2988204	85.56%	4.584%
19	19.705	19.651	19.775	BB	182519	2786554	79.78%	4.275%
20	20.448	20.401	20.535	BB	148923	2490703	71.31%	3.821%
21	21.189	21.131	21.295	BB	113912	2317135	66.34%	3.555%
22	22.111	22.041	22.238	BB	81783	2256635	64.61%	3.462%
			Sum of corrected areas:			65182406		

Aliphatic EPH 030325.M Tue Mar 04 04:16:17 2025

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

Inital Calibration Report for SequenceID : FF022625AR

AreaCount

Parameter Range	FF015527.D	FF015528.D	FF015529.D	FF015530.D	FF015531.D	
Aromatic C10-C12	23792031.000	12461970.000	5148350.000	2881825.000	1254262.000	
Aromatic C12-C16	37158993.000	19494885.000	8182790.000	4664527.000	2074624.000	
Aromatic C16-C21	50062741.000	26061188.000	10794938.000	6008191.000	2491814.000	
Aromatic C21-C36	110416619.000	57062327.000	23513894.000	13223167.000	5545443.000	
Aromatic EPH	221430384.000	115080370.000	47639972.000	26777710.000	11366143.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	128361.211	7.376				
Aromatic C12-C16	136800.3086664	8.692				
Aromatic C16-C21	133038.9985	7.877				
Aromatic C21-C36	130055.838444	7.654				
Aromatic EPH	131654.5493328	7.699				

Concentration

Parameter Range	FF015527.D	FF015528.D	FF015529.D	FF015530.D	FF015531.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	FF015527.D	FF015528.D	FF015529.D	FF015530.D	FF015531.D	
Aromatic C10-C12	118960.155000	124619.700000	128708.750000	144091.250000	125426.200000	
Aromatic C12-C16	123863.310000	129965.900000	136379.833333	155484.233333	138308.266666	
Aromatic C16-C21	125156.852500	130305.940000	134936.725000	150204.775000	124590.700000	
Aromatic C21-C36	122685.132222	126805.171111	130632.744444	146924.077777	123232.066666	
Aromatic EPH	123016.880000	127867.077777	132333.255555	148765.055555	126290.477777	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015527.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:00
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 26 12:29:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 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...	7.996	10994390	96.664 ug/ml
Spiked Amount	50.000		Recovery =	193.33%
6) S	2-Flurobiphenyl (SURR)	8.873	7467126	99.792 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	199.58%#
11) S	ortho-Terphenyl (SURR)	11.938	12986799	94.309 ug/ml
Spiked Amount	50.000		Recovery =	188.62%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.600	11629996	95.000 ug/ml
2) T	Naphthalene (C11.7)	6.272	12162035	97.104 ug/ml
3) T	2-Methylnaphthalene (...	7.370	12032920	96.653 ug/ml
5) T	Acenaphthylene (C15.06)	8.673	12653113	94.888 ug/ml
7) T	Acenaphthene (C15.5)	8.974	12472960	94.121 ug/ml
8) T	Flouorene (C16.55)	9.763	12619708	96.602 ug/ml
9) T	Phenanthrene (C19.36)	11.172	12461541	96.874 ug/ml
10) T	Anthracene (C19.43)	11.248	12126064	96.961 ug/ml
12) T	Fluoranthene (C21.85)	12.997	12920946	95.836 ug/ml
13) T	Pyrene (C20.8)	13.297	12855428	94.626 ug/ml
14) T	Benzo[a]anthracene (C...	15.181	12510176	99.595 ug/ml
15) T	Chrysene (C27.41)	15.228	12789815	93.112 ug/ml
16) T	benzo[b]fluoranthene ...	16.745	12667527	97.364 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.783	12754236	94.538 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.127	12145429	100.391 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.505	11376975	105.977 ug/ml
20) T	Dibenz[a,h]anthracene...	18.542	11542220	93.587 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.765	11709295	96.656 ug/ml

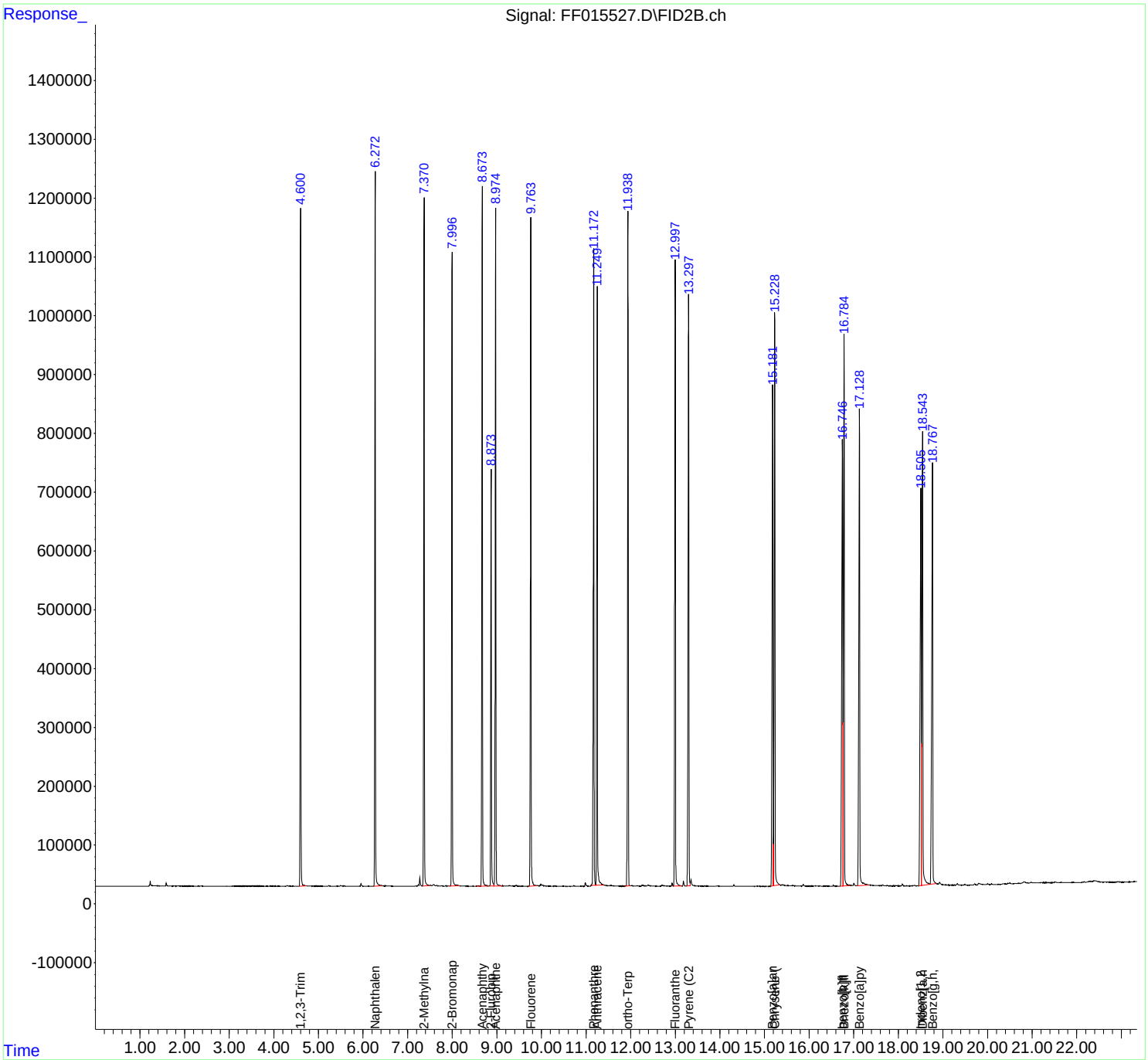
(f)=RT Delta > 1/2 Window (m)=manual int.

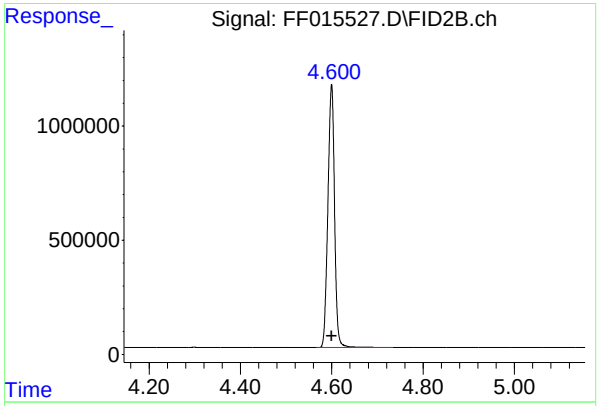
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015527.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:00
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 26 12:29:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

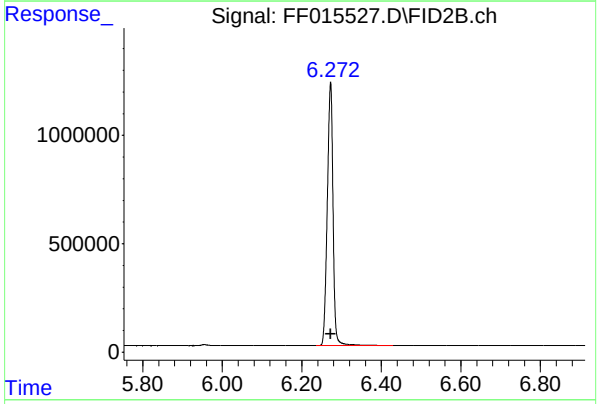




#1 1,2,3-Trimethylbenzene (C10.1)

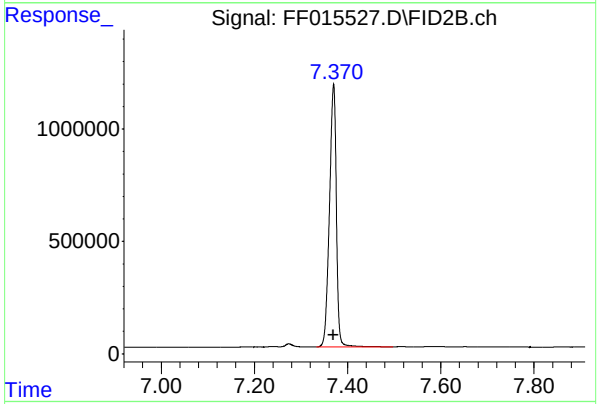
R.T.: 4.600 min
Delta R.T.: 0.000 min
Response: 11629996
Conc: 95.00 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



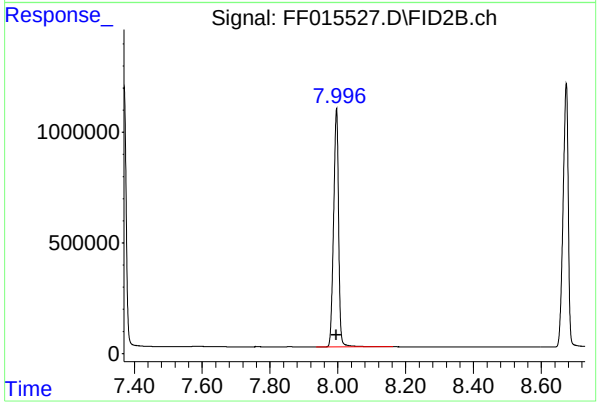
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 12162035
Conc: 97.10 ug/ml



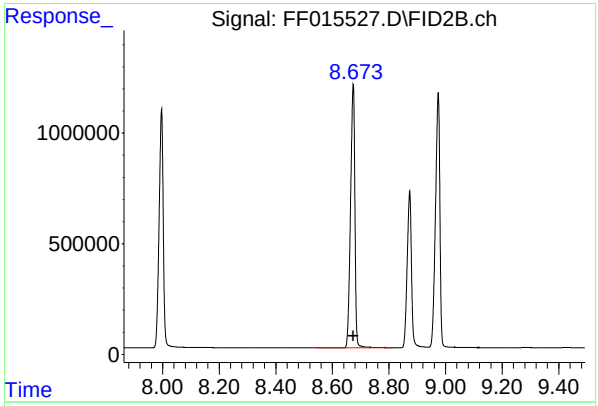
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 12032920
Conc: 96.65 ug/ml



#4 2-Bromonaphthalene (SURR)

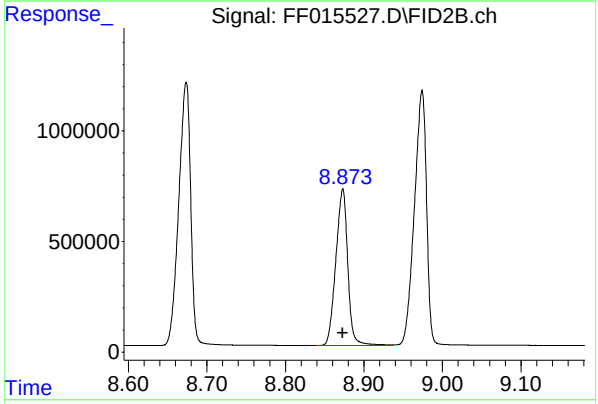
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 10994390
Conc: 96.66 ug/ml



#5 Acenaphthylene (C15.06)

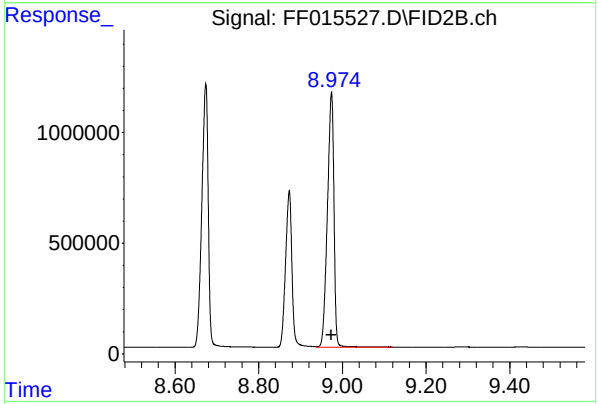
R.T.: 8.673 min
Delta R.T.: 0.000 min
Response: 12653113
Conc: 94.89 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



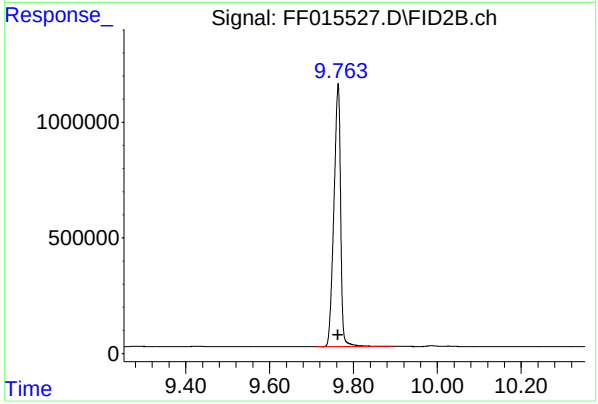
#6 2-Flurobiphenyl (SURR)

R.T.: 8.873 min
Delta R.T.: 0.000 min
Response: 7467126
Conc: 99.79 ug/ml



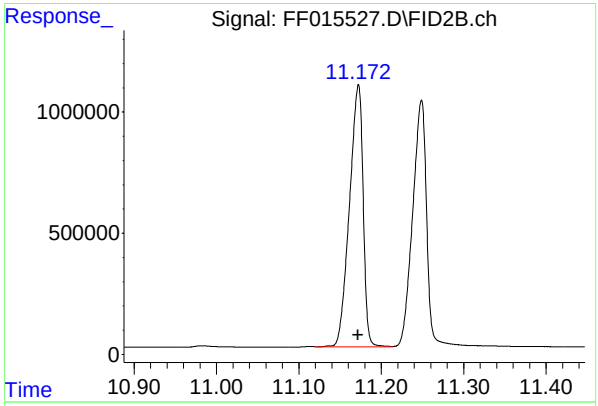
#7 Acenaphthene (C15.5)

R.T.: 8.974 min
Delta R.T.: 0.000 min
Response: 12472960
Conc: 94.12 ug/ml



#8 Flouorene (C16.55)

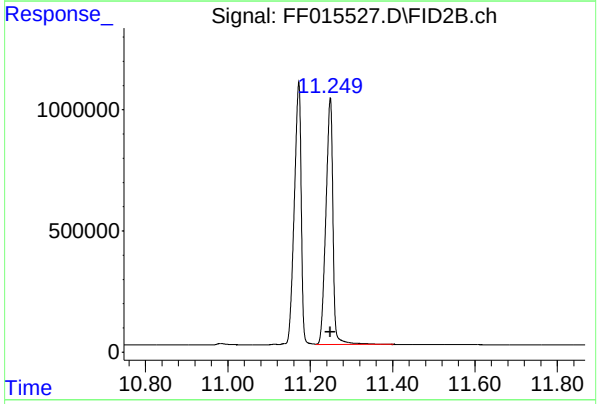
R.T.: 9.763 min
Delta R.T.: 0.000 min
Response: 12619708
Conc: 96.60 ug/ml



#9 Phenanthrene (C19.36)

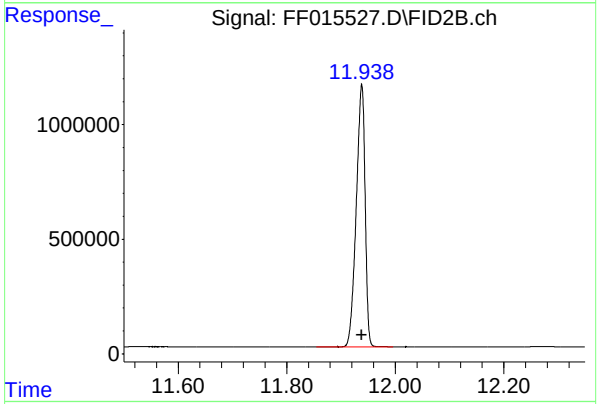
R.T.: 11.172 min
Delta R.T.: 0.000 min
Response: 12461541
Conc: 96.87 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



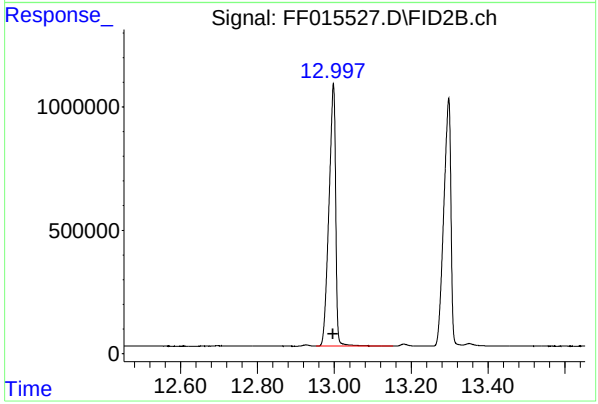
#10 Anthracene (C19.43)

R.T.: 11.248 min
Delta R.T.: 0.000 min
Response: 12126064
Conc: 96.96 ug/ml



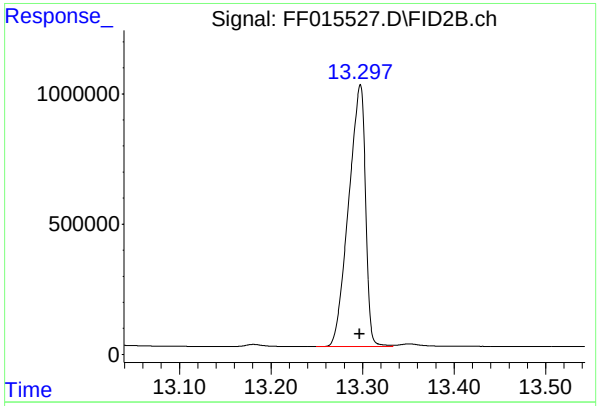
#11 ortho-Terphenyl (SURR)

R.T.: 11.938 min
Delta R.T.: 0.000 min
Response: 12986799
Conc: 94.31 ug/ml



#12 Fluoranthene (C21.85)

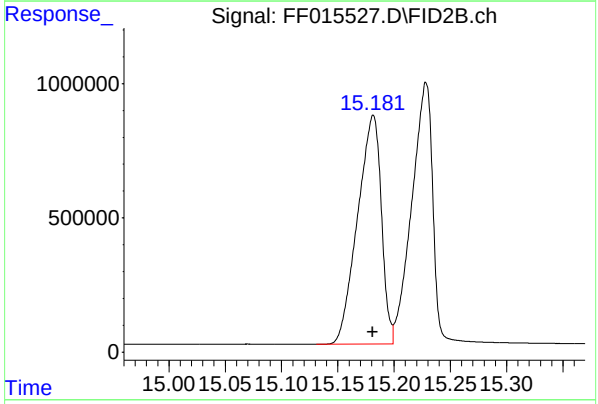
R.T.: 12.997 min
Delta R.T.: 0.000 min
Response: 12920946
Conc: 95.84 ug/ml



#13 Pyrene (C20.8)

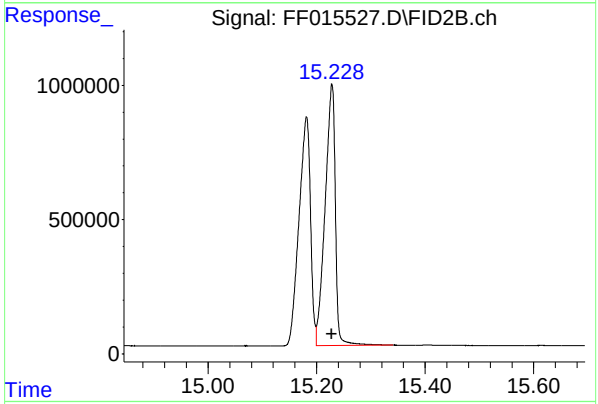
R.T.: 13.297 min
Delta R.T.: 0.000 min
Response: 12855428
Conc: 94.63 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



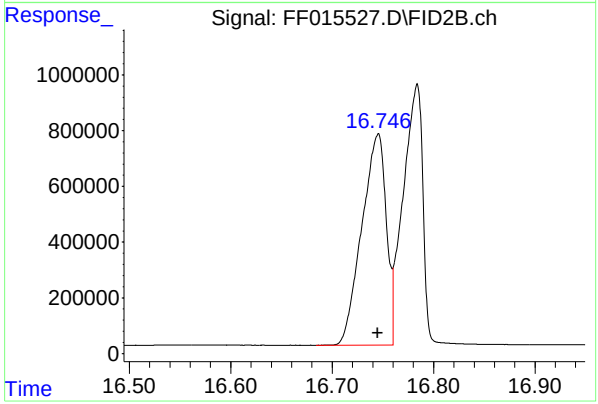
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.181 min
Delta R.T.: 0.000 min
Response: 12510176
Conc: 99.60 ug/ml



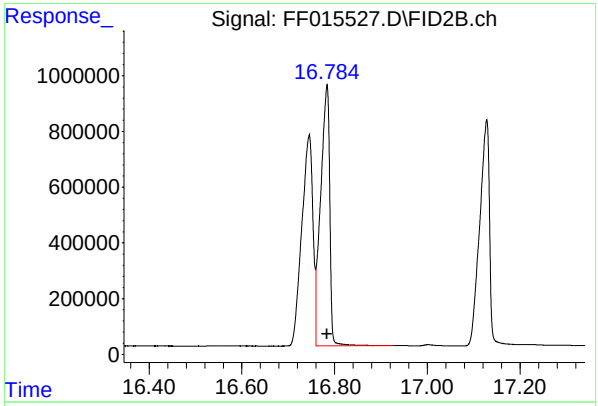
#15 Chrysene (C27.41)

R.T.: 15.228 min
Delta R.T.: 0.000 min
Response: 12789815
Conc: 93.11 ug/ml



#16 benzo[b]fluoranthene (C30.41)

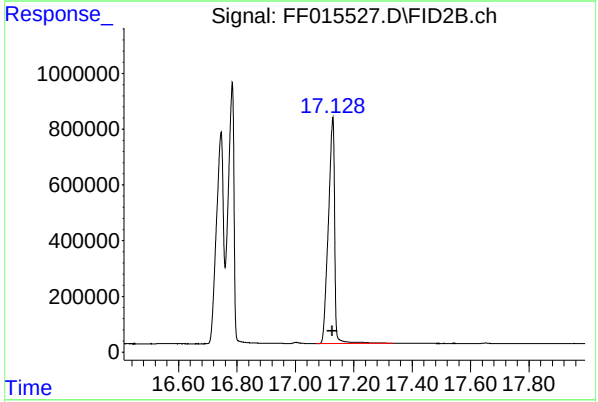
R.T.: 16.745 min
Delta R.T.: 0.000 min
Response: 12667527
Conc: 97.36 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

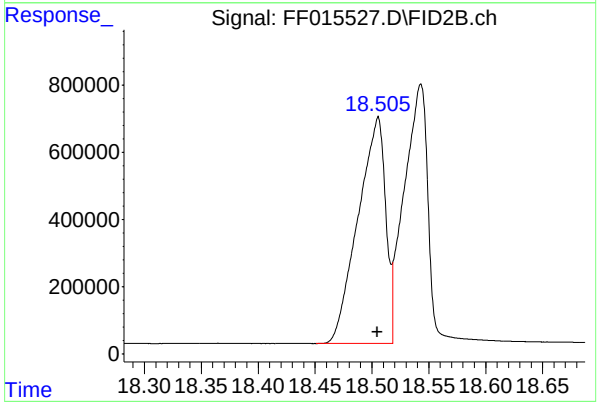
R.T.: 16.783 min
Delta R.T.: 0.000 min
Response: 12754236
Conc: 94.54 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



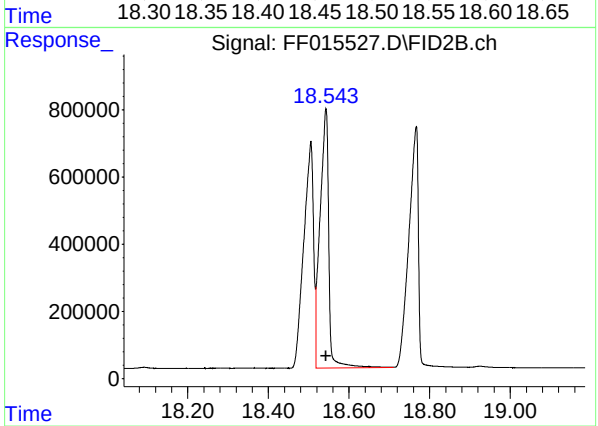
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.127 min
Delta R.T.: 0.000 min
Response: 12145429
Conc: 100.39 ug/ml



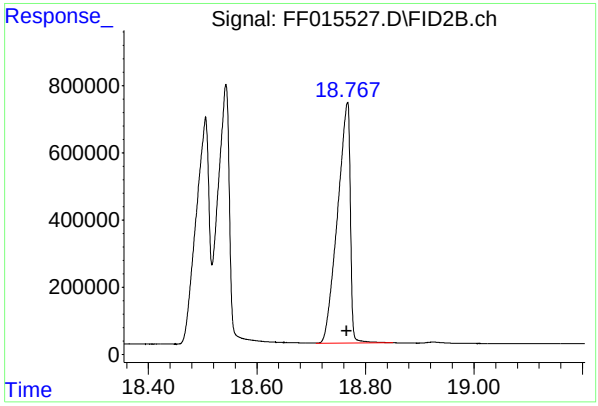
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.505 min
Delta R.T.: 0.000 min
Response: 11376975
Conc: 105.98 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.542 min
Delta R.T.: 0.000 min
Response: 11542220
Conc: 93.59 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.765 min
Delta R.T.: 0.000 mi
Response: 11709295
Conc: 96.66 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015527.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:00
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.600	4.566	4.734	BB	1152082	11629996	89.55%	4.599%
2	6.272	6.236	6.429	BB	1218951	12162035	93.65%	4.809%
3	7.370	7.332	7.497	PV	1161350	12032920	92.66%	4.758%
4	7.996	7.936	8.162	BB	1077251	10994390	84.66%	4.348%
5	8.673	8.542	8.814	BB	1185812	12653113	97.43%	5.004%
6	8.873	8.839	8.937	BV	704745	7467126	57.50%	2.953%
7	8.974	8.937	9.121	VB	1154825	12472960	96.04%	4.932%
8	9.763	9.711	9.894	BB	1124636	12619708	97.17%	4.990%
9	11.172	11.121	11.214	BV	1087677	12461541	95.96%	4.928%
10	11.248	11.214	11.401	VBA	1024153	12126064	93.37%	4.795%
11	11.938	11.854	11.996	BB	1143374	12986799	100.00%	5.136%
12	12.997	12.952	13.152	VB	1068279	12920946	99.49%	5.110%
13	13.297	13.249	13.333	BV	1008180	12855428	98.99%	5.084%
14	15.181	15.131	15.199	BV	852704	12510176	96.33%	4.947%
15	15.228	15.199	15.341	VBA	974664	12789815	98.48%	5.058%
16	16.745	16.684	16.760	BV	753666	12667527	97.54%	5.009%
17	16.783	16.760	16.926	VB	928653	12754236	98.21%	5.044%
18	17.127	17.071	17.334	BB	807969	12145429	93.52%	4.803%
19	18.505	18.451	18.518	BV	665896	11376975	87.60%	4.499%
20	18.542	18.518	18.709	VV	771751	11542220	88.88%	4.564%
21	18.765	18.709	18.851	VBA	712641	11709295	90.16%	4.630%

Sum of corrected areas: 252878700

Aromatic EPH 022625.M Wed Feb 26 12:47:18 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015528.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:30
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 26 12:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 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...	7.996	5704504	50.103 ug/ml
Spiked Amount	50.000		Recovery =	100.21%
6) S	2-Flurobiphenyl (SURR)	8.871	3814026	50.643 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	101.29%
11) S	ortho-Terphenyl (SURR)	11.935	6832040	49.742 ug/ml
Spiked Amount	50.000		Recovery =	99.48%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.602	6140419	50.105 ug/ml
2) T	Naphthalene (C11.7)	6.273	6321551	50.314 ug/ml
3) T	2-Methylnaphthalene (...	7.370	6257474	50.175 ug/ml
5) T	Acenaphthylene (C15.06)	8.671	6644719	49.887 ug/ml
7) T	Acenaphthene (C15.5)	8.970	6592692	49.832 ug/ml
8) T	Flouorene (C16.55)	9.760	6568021	50.185 ug/ml
9) T	Phenanthrene (C19.36)	11.168	6485720	50.279 ug/ml
10) T	Anthracene (C19.43)	11.243	6294334	50.220 ug/ml
12) T	Fluoranthene (C21.85)	12.992	6736882	49.979 ug/ml
13) T	Pyrene (C20.8)	13.290	6713113	49.608 ug/ml
14) T	Benzo[a]anthracene (C...	15.173	6382398	50.538 ug/ml
15) T	Chrysene (C27.41)	15.217	6702862	49.192 ug/ml
16) T	benzo[b]fluoranthene ...	16.736	6507369	50.011 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.770	6701753	49.386 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.116	6283729	51.277 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.492	5436862	50.428 ug/ml
20) T	Dibenz[a,h]anthracene...	18.528	6261165	49.789 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.749	6049307	49.956 ug/ml

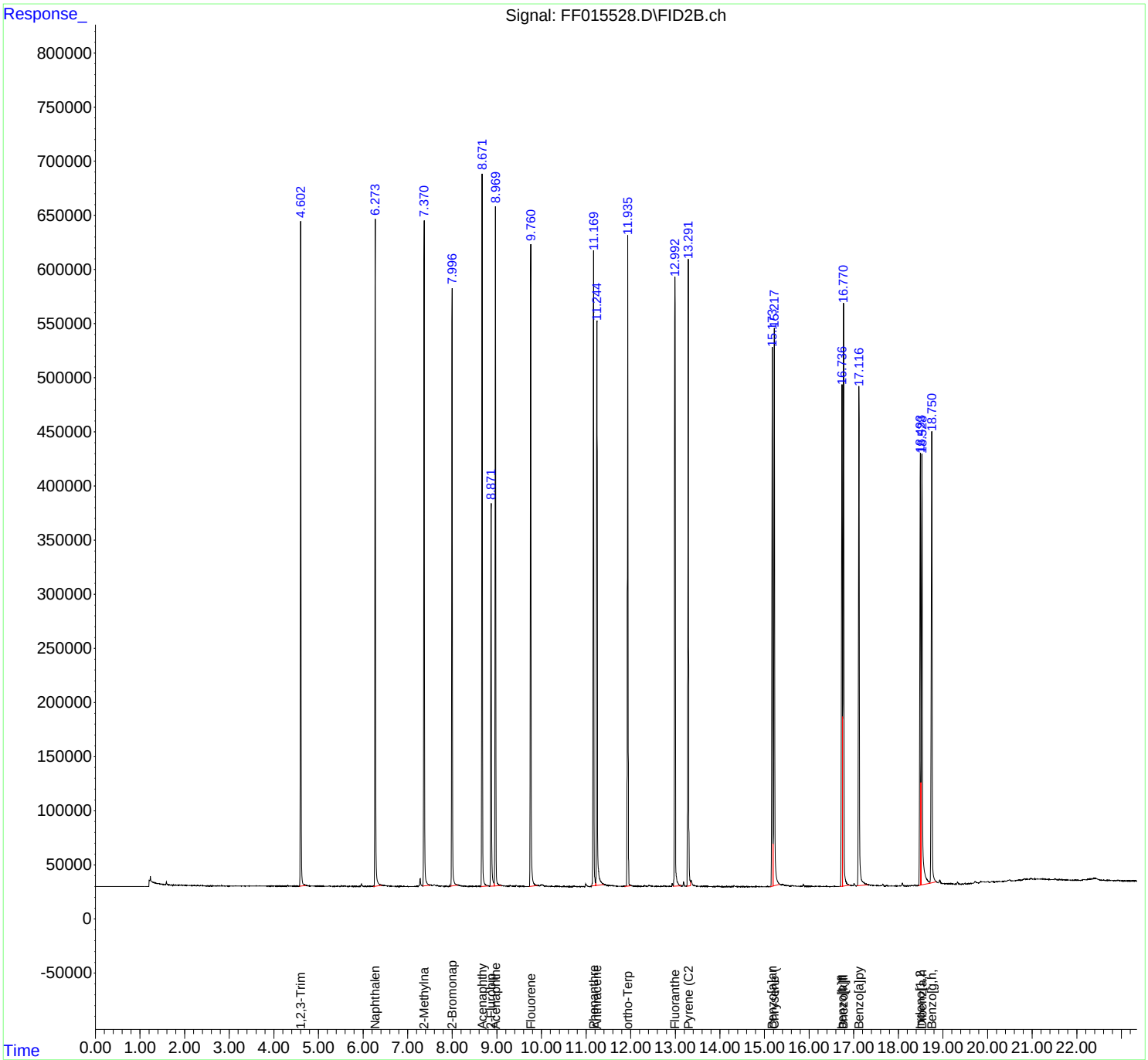
(f)=RT Delta > 1/2 Window (m)=manual int.

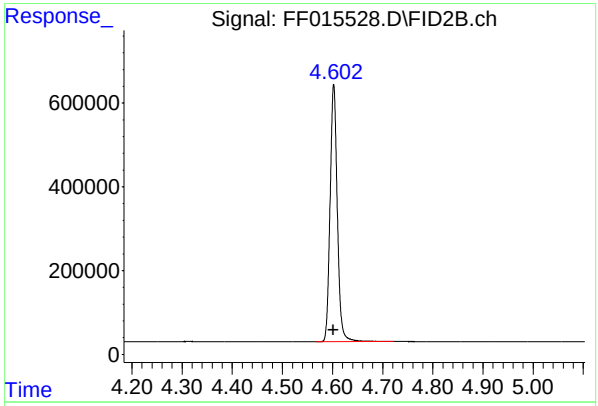
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015528.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:30
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 26 12:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

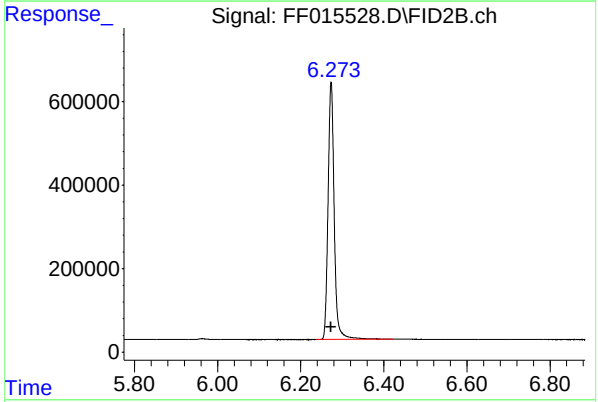




#1 1,2,3-Trimethylbenzene (C10.1)

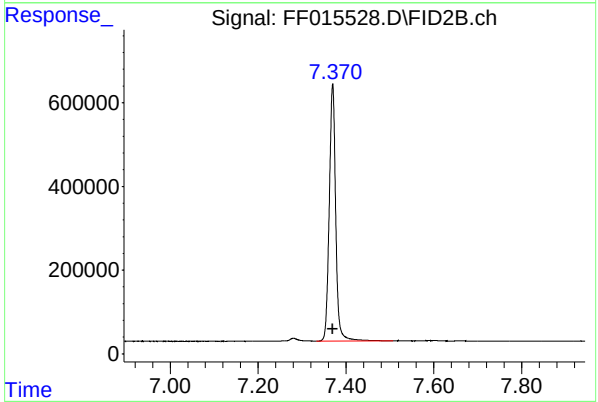
R.T.: 4.602 min
Delta R.T.: 0.000 min
Response: 6140419
Conc: 50.11 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



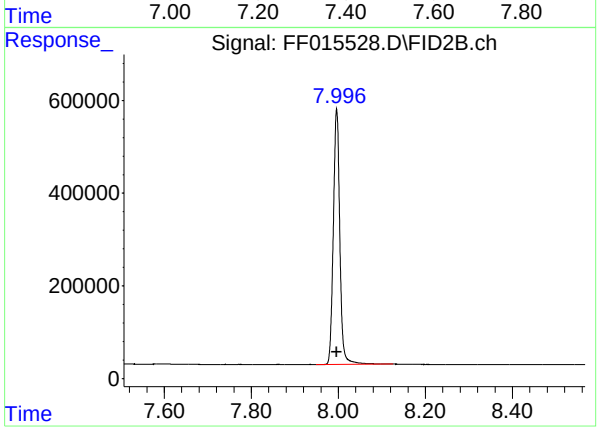
#2 Naphthalene (C11.7)

R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 6321551
Conc: 50.31 ug/ml



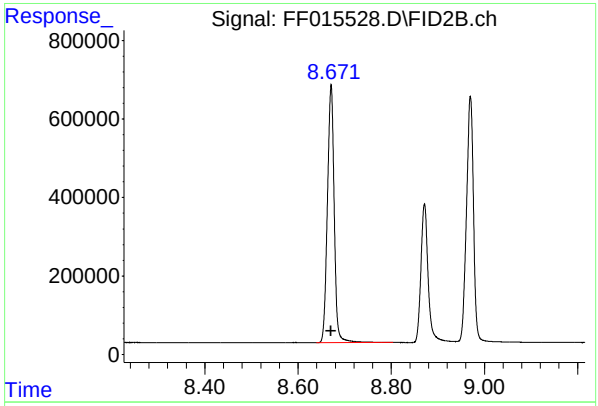
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 6257474
Conc: 50.17 ug/ml



#4 2-Bromonaphthalene (SURR)

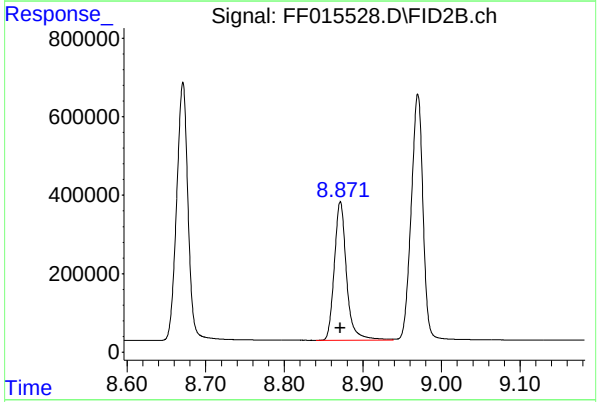
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 5704504
Conc: 50.10 ug/ml



#5 Acenaphthylene (C15.06)

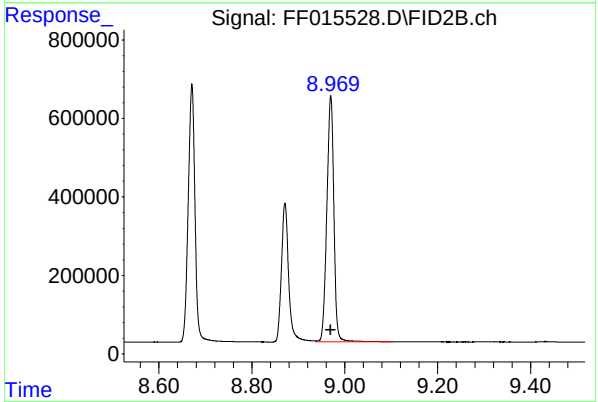
R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 6644719
Conc: 49.89 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



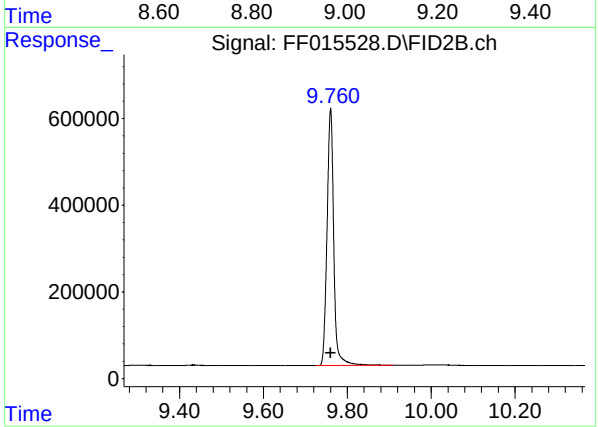
#6 2-Flurobiphenyl (SURR)

R.T.: 8.871 min
Delta R.T.: 0.000 min
Response: 3814026
Conc: 50.64 ug/ml



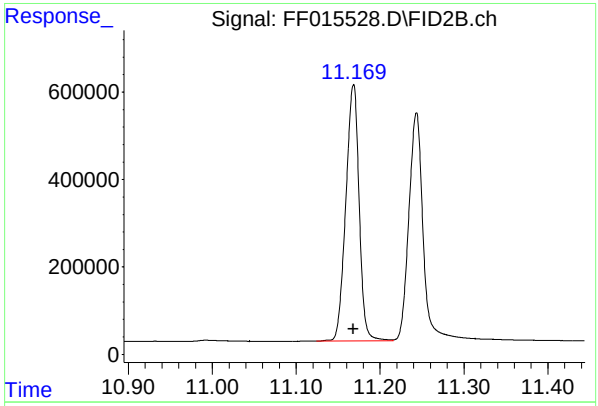
#7 Acenaphthene (C15.5)

R.T.: 8.970 min
Delta R.T.: 0.000 min
Response: 6592692
Conc: 49.83 ug/ml



#8 Flouorene (C16.55)

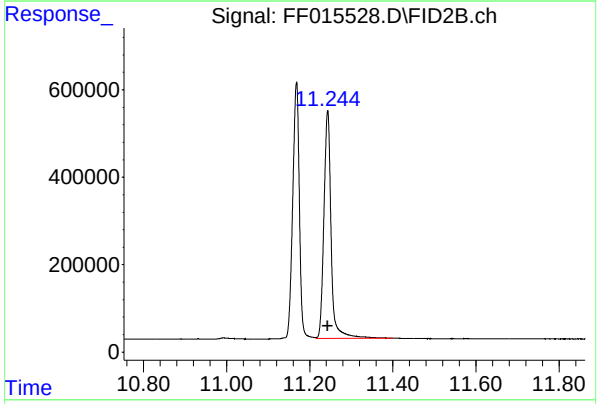
R.T.: 9.760 min
Delta R.T.: 0.000 min
Response: 6568021
Conc: 50.18 ug/ml



#9 Phenanthrene (C19.36)

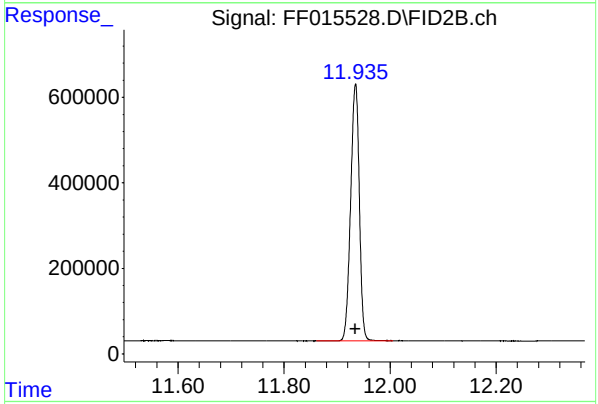
R.T.: 11.168 min
Delta R.T.: 0.000 min
Response: 6485720
Conc: 50.28 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



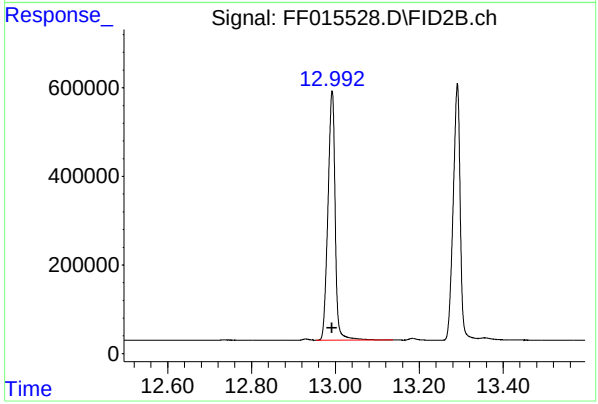
#10 Anthracene (C19.43)

R.T.: 11.243 min
Delta R.T.: 0.000 min
Response: 6294334
Conc: 50.22 ug/ml



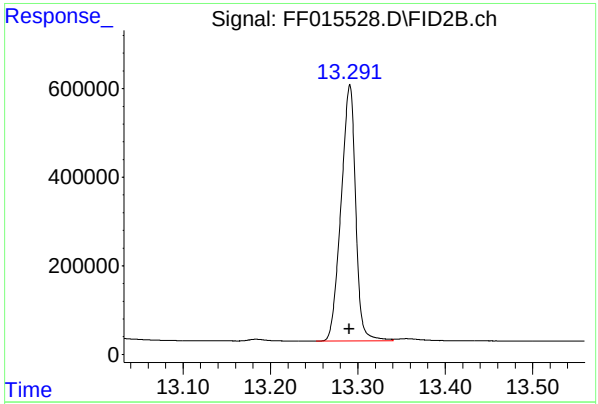
#11 ortho-Terphenyl (SURR)

R.T.: 11.935 min
Delta R.T.: 0.000 min
Response: 6832040
Conc: 49.74 ug/ml



#12 Fluoranthene (C21.85)

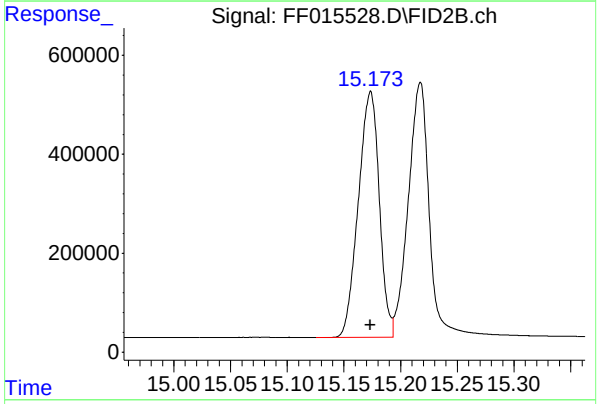
R.T.: 12.992 min
Delta R.T.: 0.000 min
Response: 6736882
Conc: 49.98 ug/ml



#13 Pyrene (C20.8)

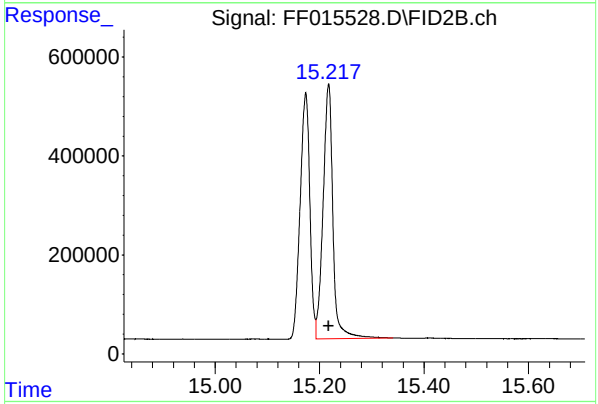
R.T.: 13.290 min
Delta R.T.: 0.000 min
Response: 6713113
Conc: 49.61 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



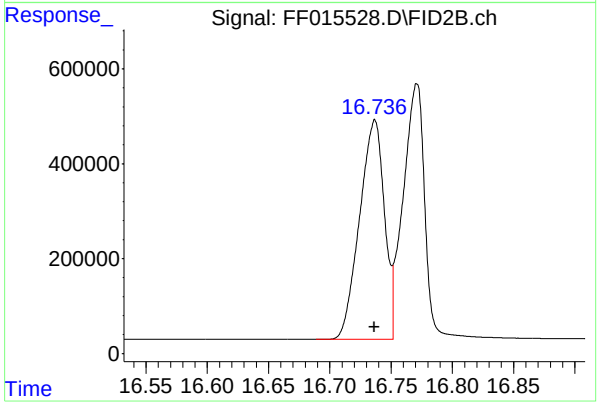
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.173 min
Delta R.T.: 0.000 min
Response: 6382398
Conc: 50.54 ug/ml



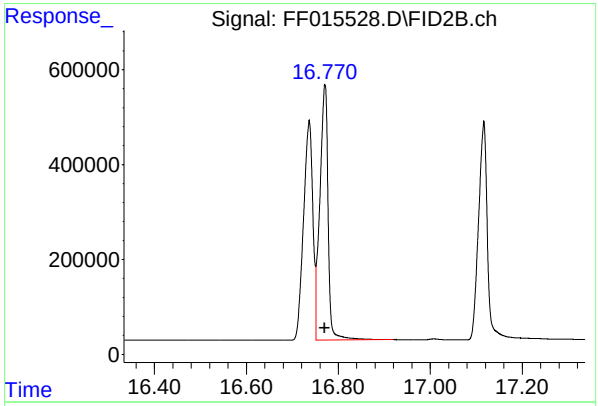
#15 Chrysene (C27.41)

R.T.: 15.217 min
Delta R.T.: 0.000 min
Response: 6702862
Conc: 49.19 ug/ml



#16 benzo[b]fluoranthene (C30.41)

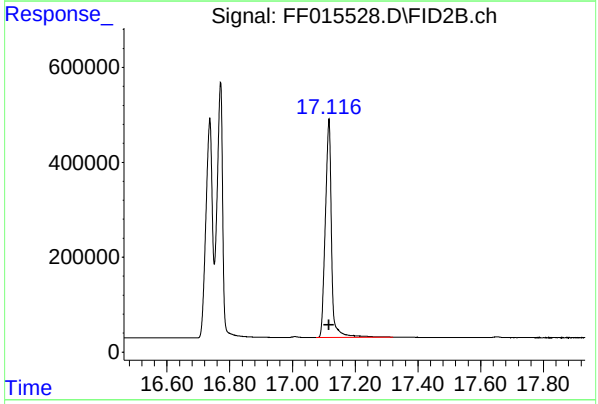
R.T.: 16.736 min
Delta R.T.: 0.000 min
Response: 6507369
Conc: 50.01 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

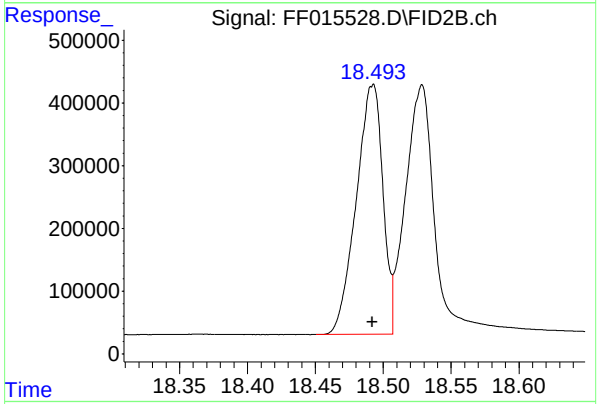
R.T.: 16.770 min
Delta R.T.: 0.000 min
Response: 6701753
Conc: 49.39 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



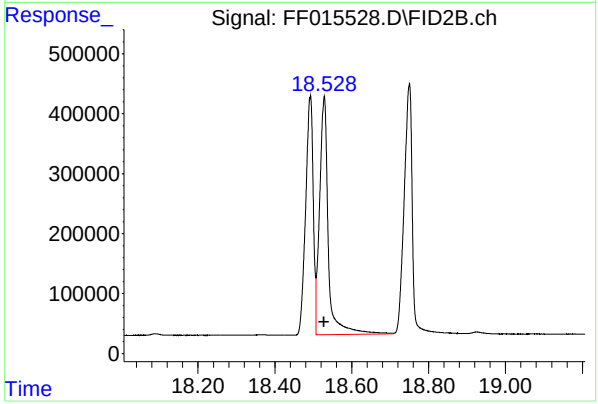
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.116 min
Delta R.T.: 0.000 min
Response: 6283729
Conc: 51.28 ug/ml



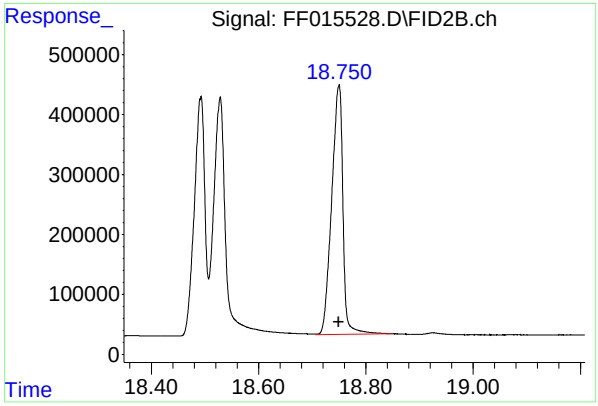
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.492 min
Delta R.T.: 0.000 min
Response: 5436862
Conc: 50.43 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.528 min
Delta R.T.: 0.000 min
Response: 6261165
Conc: 49.79 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.749 min
Delta R.T.: 0.000 mi
Response: 6049307
Conc: 49.96 ug/m

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015528.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:30
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.602	4.567	4.720	BB	613956	6140419	89.88%	4.672%
2	6.273	6.237	6.422	BB	617127	6321551	92.53%	4.810%
3	7.370	7.332	7.507	VV	617635	6257474	91.59%	4.761%
4	7.996	7.949	8.125	BB	550176	5704504	83.50%	4.340%
5	8.671	8.639	8.804	BB	656770	6644719	97.26%	5.056%
6	8.871	8.840	8.938	BV	354018	3814026	55.83%	2.902%
7	8.970	8.938	9.104	VB	628126	6592692	96.50%	5.016%
8	9.760	9.725	9.909	BB	594268	6568021	96.14%	4.997%
9	11.168	11.124	11.215	BV	589305	6485720	94.93%	4.935%
10	11.243	11.215	11.400	VBA	523723	6294334	92.13%	4.789%
11	11.935	11.860	12.005	BB	604176	6832040	100.00%	5.198%
12	12.992	12.954	13.137	VB	564012	6736882	98.61%	5.126%
13	13.290	13.252	13.340	BV	578658	6713113	98.26%	5.108%
14	15.173	15.125	15.193	BV	498907	6382398	93.42%	4.856%
15	15.217	15.193	15.340	VBA	515294	6702862	98.11%	5.100%
16	16.736	16.689	16.752	BV	464318	6507369	95.25%	4.951%
17	16.770	16.752	16.919	VB	539771	6701753	98.09%	5.099%
18	17.116	17.075	17.320	BB	455878	6283729	91.97%	4.781%
19	18.492	18.450	18.507	BV	396677	5436862	79.58%	4.137%
20	18.528	18.507	18.707	VV	399735	6261165	91.64%	4.764%
21	18.749	18.707	18.850	VBA	414410	6049307	88.54%	4.603%

Sum of corrected areas: 131430938

Aromatic EPH 022625.M Wed Feb 26 12:46:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015529.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 26 12:27:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 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...	7.996	2350631	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.872	1499662	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.933	2910848	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.603	2570851	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.274	2577499	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.370	2573276	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.670	2803283	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.968	2806231	20.000 ug/ml
8) T	Flouorene (C16.55)	9.760	2701482	20.000 ug/ml
9) T	Phenanthrene (C19.36)	11.166	2653141	20.000 ug/ml
10) T	Anthracene (C19.43)	11.242	2577211	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.988	2808741	20.000 ug/ml
13) T	Pyrene (C20.8)	13.287	2863104	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	15.169	2522372	20.000 ug/ml
15) T	Chrysene (C27.41)	15.211	2936432	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.730	2670667	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.761	2910573	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.111	2410168	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.484	2018742	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.522	2732285	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.738	2503914	20.000 ug/ml

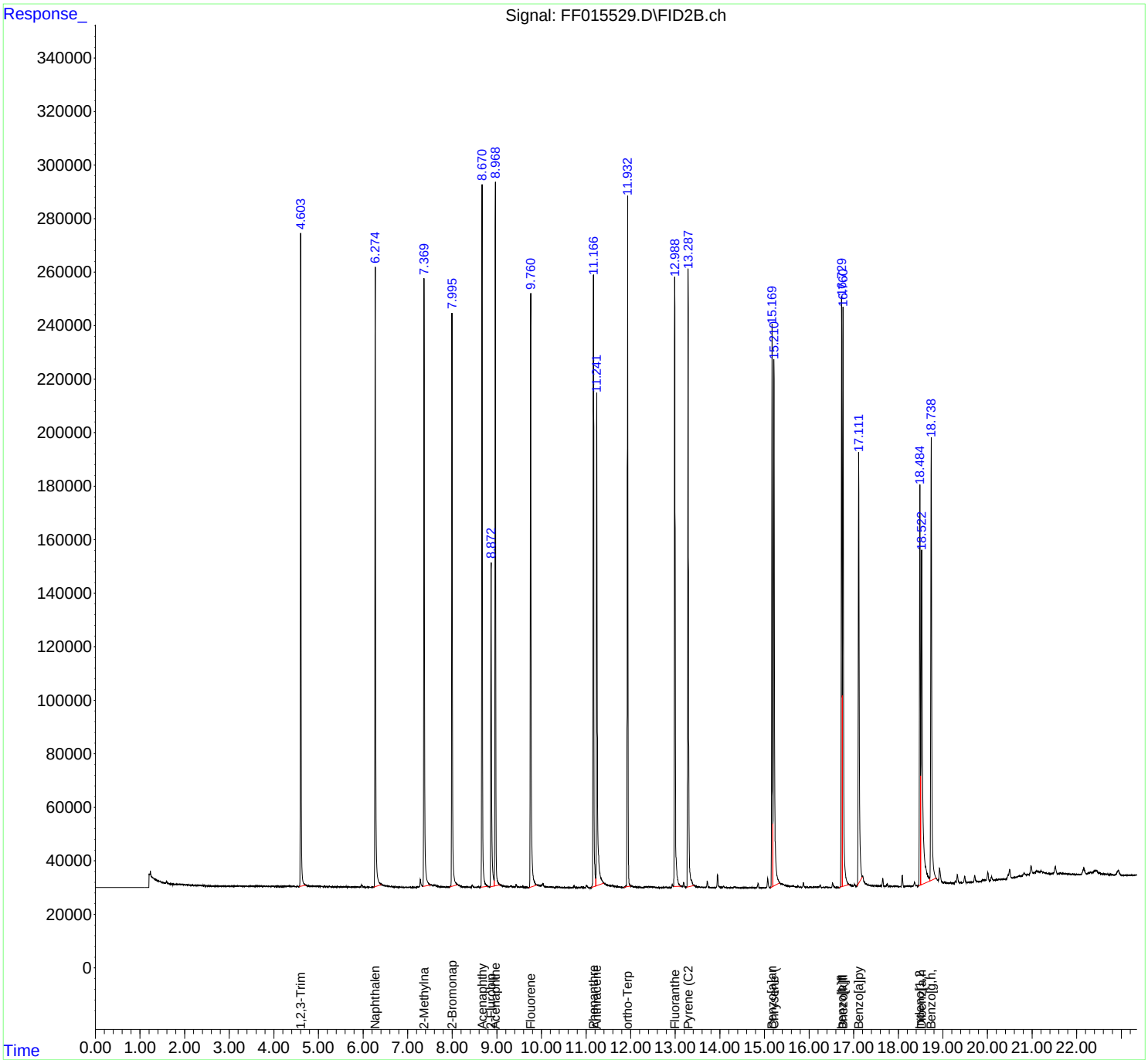
(f)=RT Delta > 1/2 Window (m)=manual int.

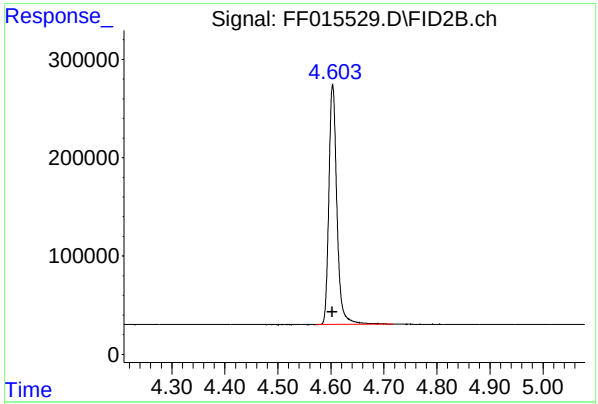
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015529.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 26 12:27:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

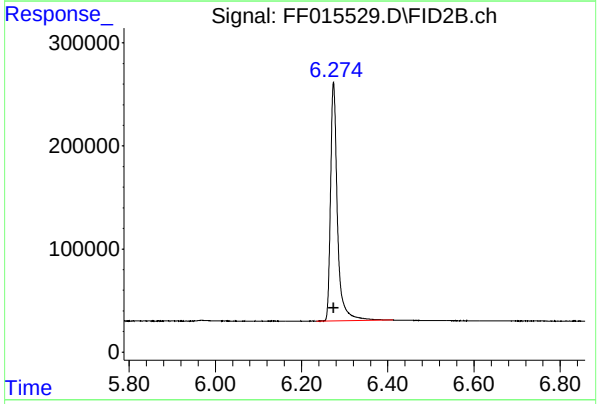




#1 1,2,3-Trimethylbenzene (C10.1)

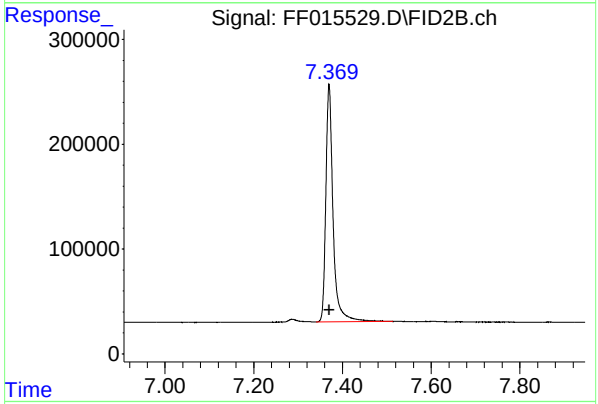
R.T.: 4.603 min
Delta R.T.: 0.000 min
Response: 2570851
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



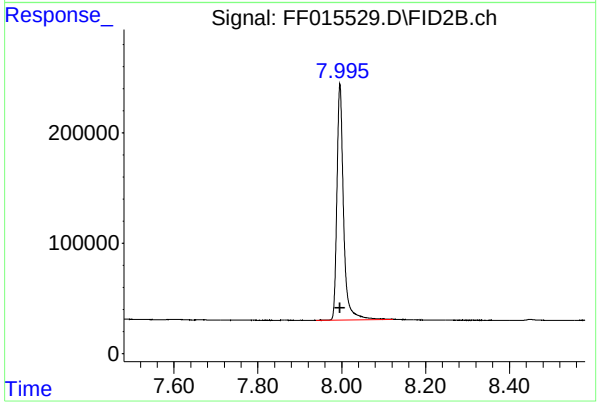
#2 Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2577499
Conc: 20.00 ug/ml



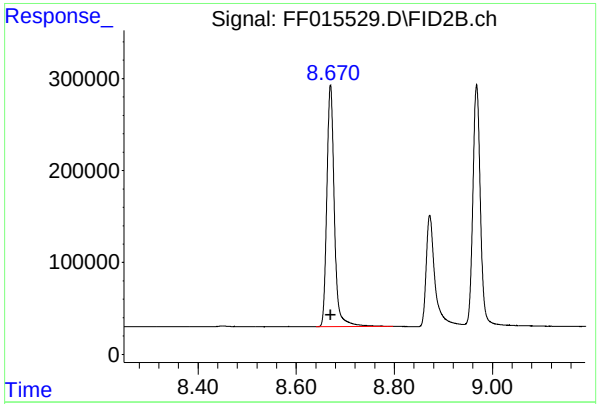
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 2573276
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

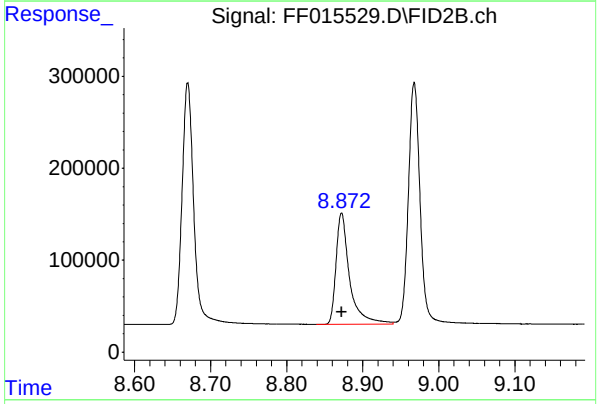
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 2350631
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

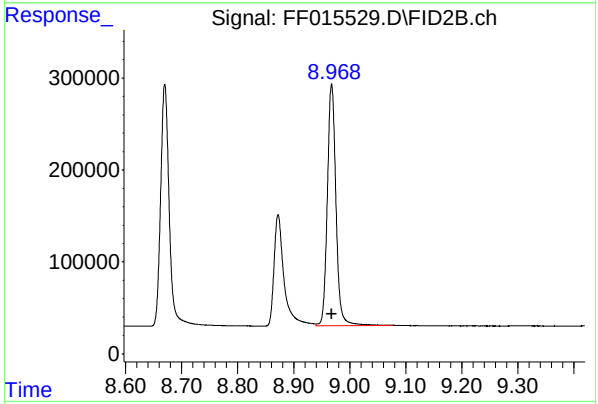
R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 2803283
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



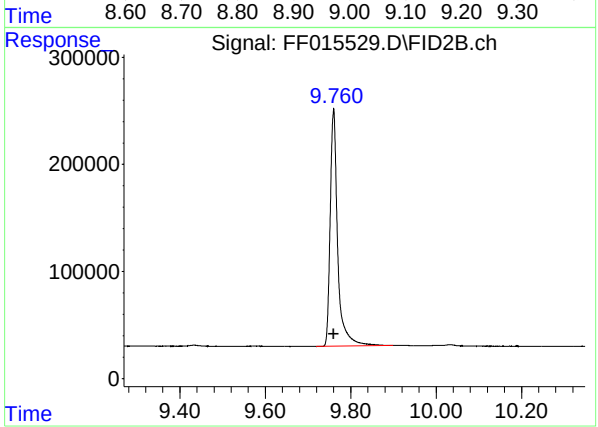
#6 2-Flurobiphenyl (SURR)

R.T.: 8.872 min
Delta R.T.: 0.000 min
Response: 1499662
Conc: 20.00 ug/ml



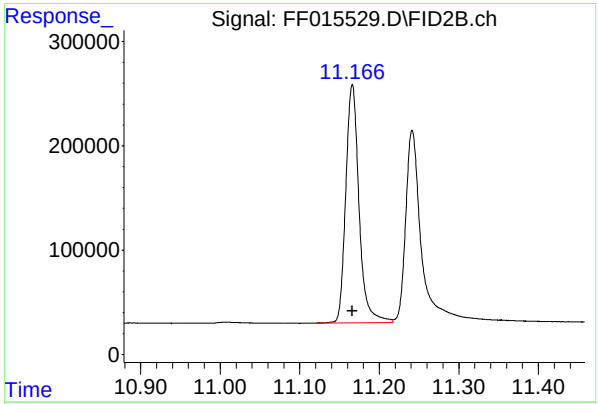
#7 Acenaphthene (C15.5)

R.T.: 8.968 min
Delta R.T.: 0.000 min
Response: 2806231
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

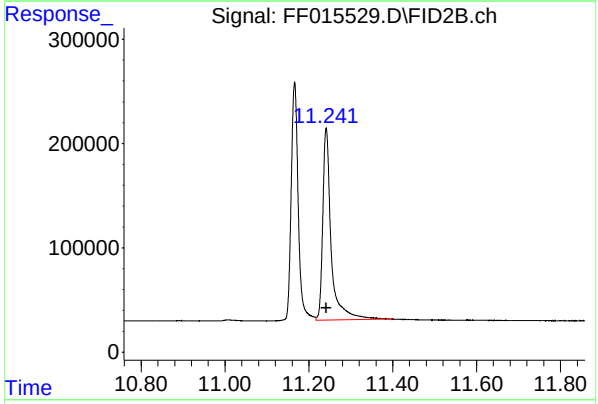
R.T.: 9.760 min
Delta R.T.: 0.000 min
Response: 2701482
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

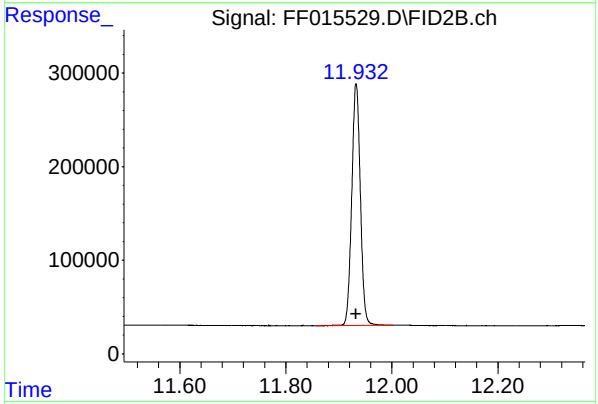
R.T.: 11.166 min
Delta R.T.: 0.000 min
Response: 2653141
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



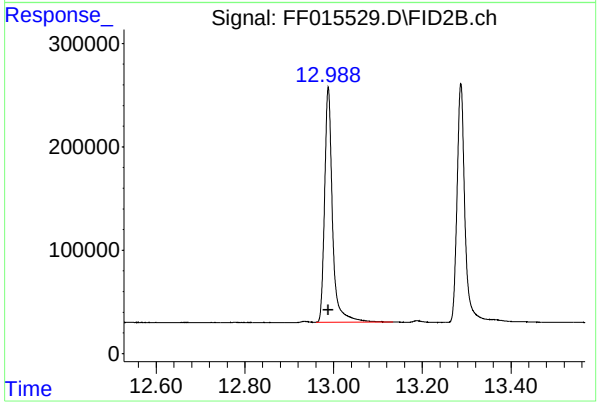
#10 Anthracene (C19.43)

R.T.: 11.242 min
Delta R.T.: 0.000 min
Response: 2577211
Conc: 20.00 ug/ml



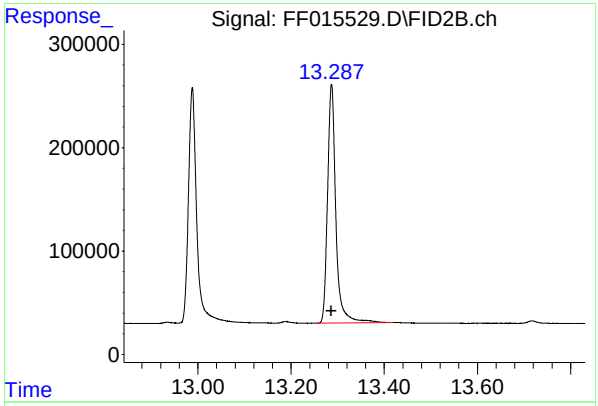
#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 2910848
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

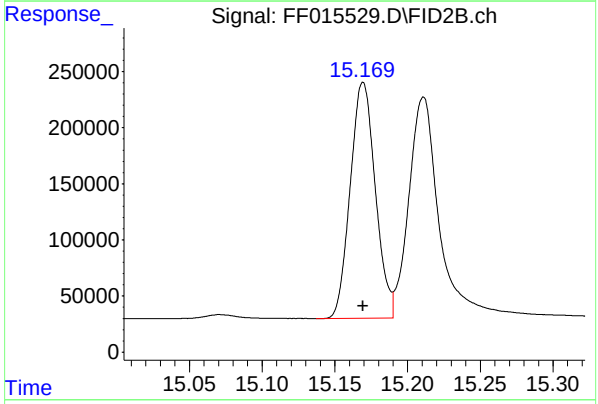
R.T.: 12.988 min
Delta R.T.: 0.000 min
Response: 2808741
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

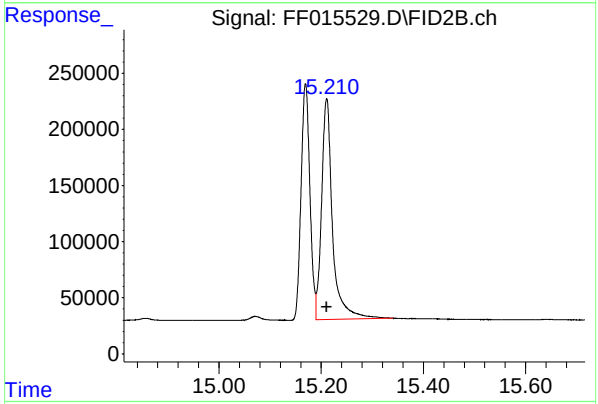
R.T.: 13.287 min
Delta R.T.: 0.000 min
Response: 2863104
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



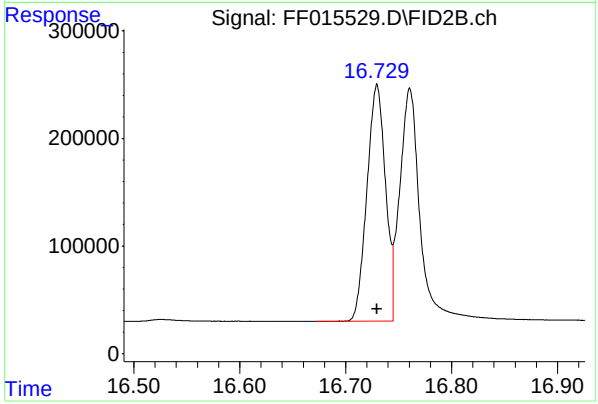
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.169 min
Delta R.T.: 0.000 min
Response: 2522372
Conc: 20.00 ug/ml



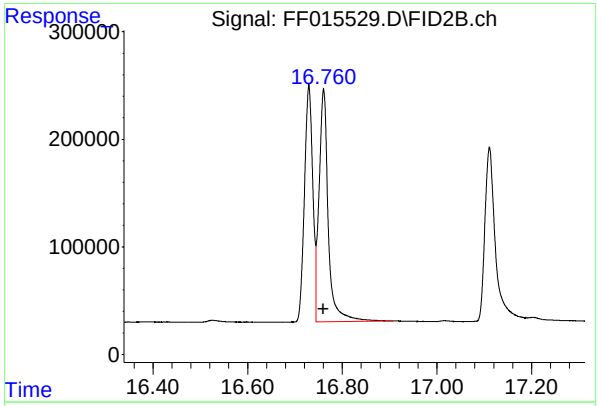
#15 Chrysene (C27.41)

R.T.: 15.211 min
Delta R.T.: 0.000 min
Response: 2936432
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

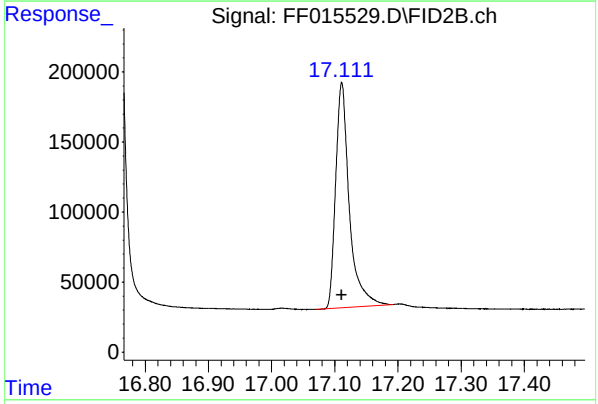
R.T.: 16.730 min
Delta R.T.: 0.000 min
Response: 2670667
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

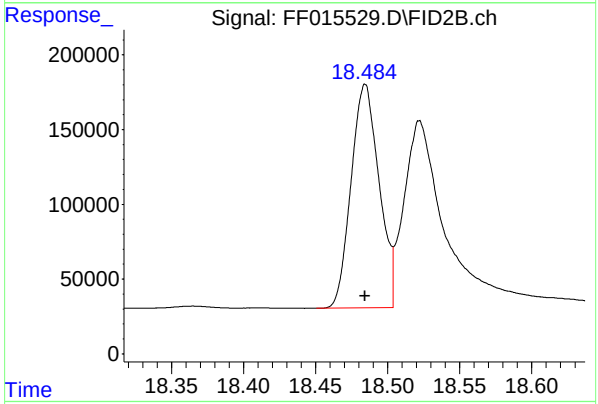
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 2910573
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



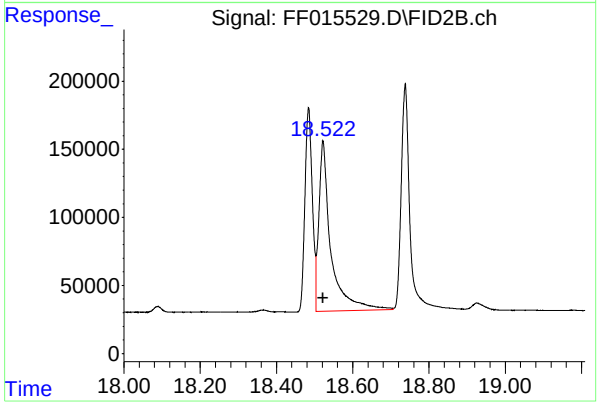
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.111 min
Delta R.T.: 0.000 min
Response: 2410168
Conc: 20.00 ug/ml



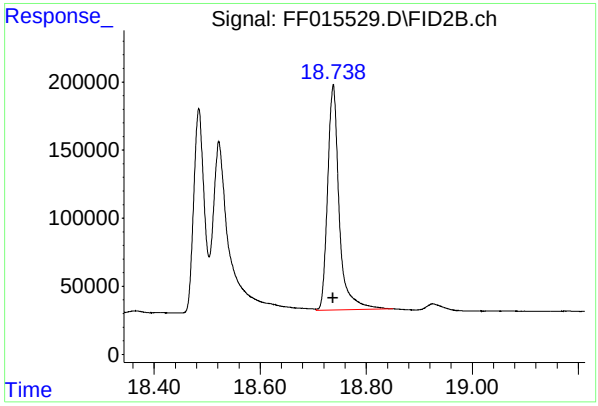
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.484 min
Delta R.T.: 0.000 min
Response: 2018742
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.522 min
Delta R.T.: 0.000 min
Response: 2732285
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.738 min
Delta R.T.: 0.000 mi
Response: 2503914
Conc: 20.00 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015529.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 09:59
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.603	4.572	4.717	BB	243820	2570851	87.55%	4.726%
2	6.274	6.234	6.412	BB	230943	2577499	87.78%	4.738%
3	7.370	7.340	7.514	PB	226306	2573276	87.63%	4.730%
4	7.996	7.939	8.122	BB	214120	2350631	80.05%	4.321%
5	8.670	8.640	8.797	BB	262840	2803283	95.47%	5.153%
6	8.872	8.839	8.940	BV	121049	1499662	51.07%	2.757%
7	8.968	8.940	9.077	VB	261975	2806231	95.57%	5.158%
8	9.760	9.719	9.899	BB	222608	2701482	92.00%	4.966%
9	11.166	11.120	11.217	BV	228277	2653141	90.35%	4.877%
10	11.242	11.217	11.400	VBA	183733	2577211	87.77%	4.737%
11	11.933	11.857	12.002	BB	259102	2910848	99.13%	5.351%
12	12.988	12.960	13.134	BB	227893	2808741	95.65%	5.163%
13	13.287	13.254	13.419	BB	231291	2863104	97.50%	5.263%
14	15.169	15.137	15.190	BV	210310	2522372	85.90%	4.637%
15	15.211	15.190	15.340	VBA	196698	2936432	100.00%	5.398%
16	16.730	16.672	16.745	BV	219532	2670667	90.95%	4.909%
17	16.761	16.745	16.907	VB	216273	2910573	99.12%	5.350%
18	17.111	17.070	17.192	BV	160810	2410168	82.08%	4.430%
19	18.484	18.450	18.504	BV	149873	2018742	68.75%	3.711%
20	18.522	18.504	18.705	VV	124814	2732285	93.05%	5.022%
21	18.738	18.705	18.850	VBA	164694	2503914	85.27%	4.603%
			Sum of corrected areas:			54401113		

Aromatic EPH 022625.M Wed Feb 26 12:46:27 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015530.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 26 12:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 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...	7.998	1328026	11.198 ug/ml
Spiked Amount	50.000		Recovery =	22.40%
6) S	2-Flurobiphenyl (SURR)	8.876	783654	10.301 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	20.60%
11) S	ortho-Terphenyl (SURR)	11.932	1681667	11.593 ug/ml
Spiked Amount	50.000		Recovery =	23.19%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.606	1453713	11.335 ug/ml
2) T	Naphthalene (C11.7)	6.277	1428112	10.991 ug/ml
3) T	2-Methylnaphthalene (...	7.372	1426121	11.039 ug/ml
5) T	Acenaphthylene (C15.06)	8.671	1616916	11.523 ug/ml
7) T	Acenaphthene (C15.5)	8.968	1621490	11.602 ug/ml
8) T	Flouorene (C16.55)	9.761	1494683	11.029 ug/ml
9) T	Phenanthrene (C19.36)	11.167	1458311	10.948 ug/ml
10) T	Anthracene (C19.43)	11.244	1405178	10.882 ug/ml
12) T	Fluoranthene (C21.85)	12.989	1604701	11.364 ug/ml
13) T	Pyrene (C20.8)	13.287	1650019	11.559 ug/ml
14) T	Benzo[a]anthracene (C...	15.170	1262368	9.997 ug/ml
15) T	Chrysene (C27.41)	15.211	1748922	11.986 ug/ml
16) T	benzo[b]fluoranthene ...	16.730	1459147	10.884 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.761	1716828	11.865 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.115	1455897	11.347 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.489	1036997	9.711 ug/ml
20) T	Dibenz[a,h]anthracene...	18.531	1527081	11.526 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.738	1411226	11.191 ug/ml

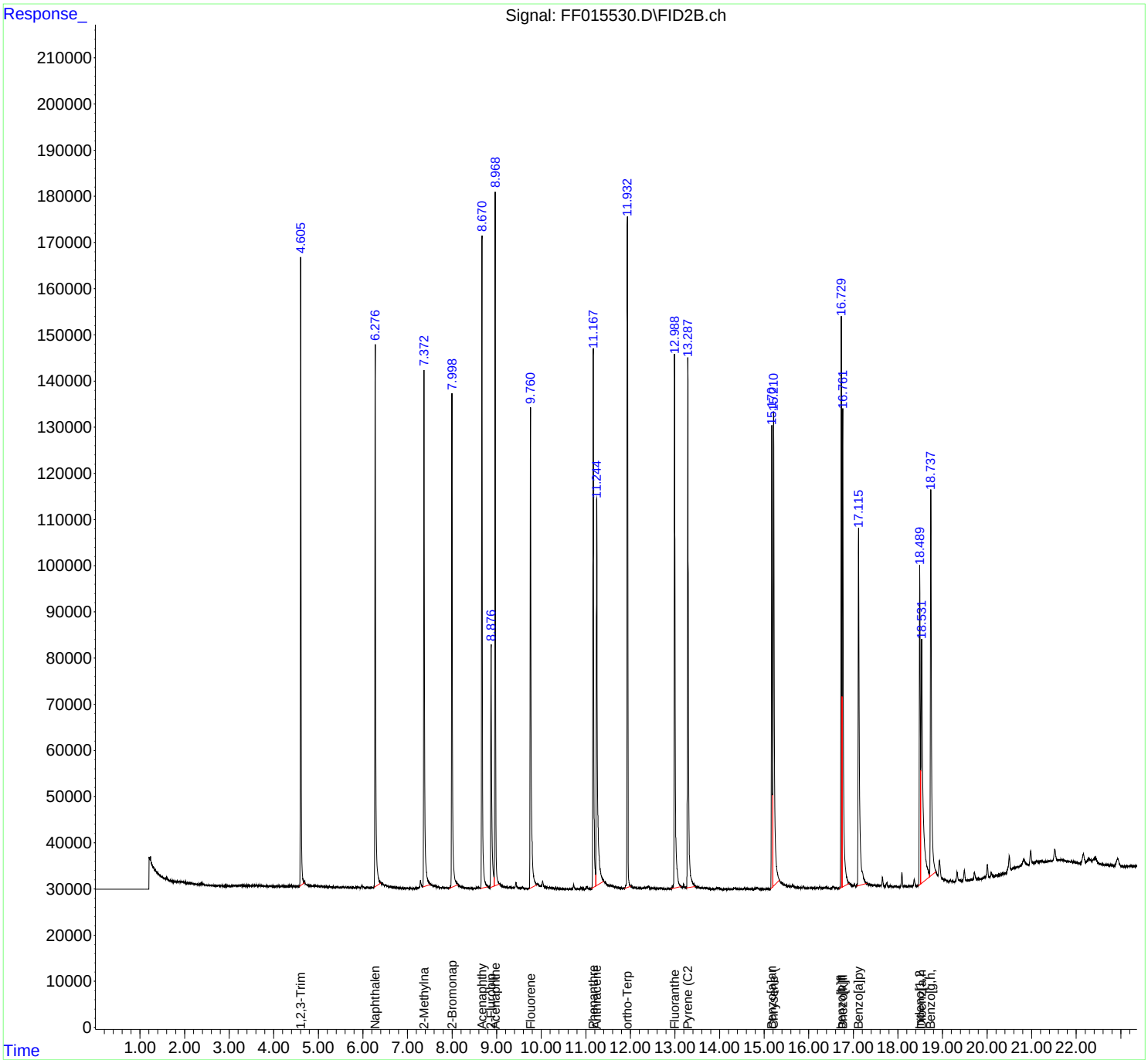
(f)=RT Delta > 1/2 Window (m)=manual int.

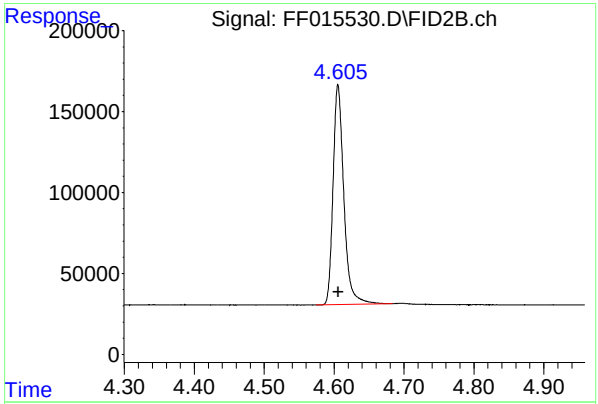
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015530.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 26 12:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

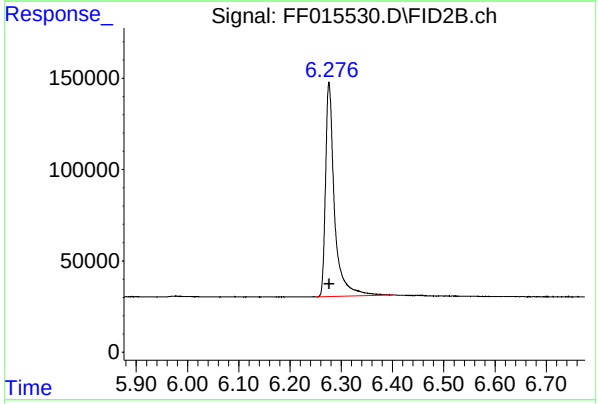




#1 1,2,3-Trimethylbenzene (C10.1)

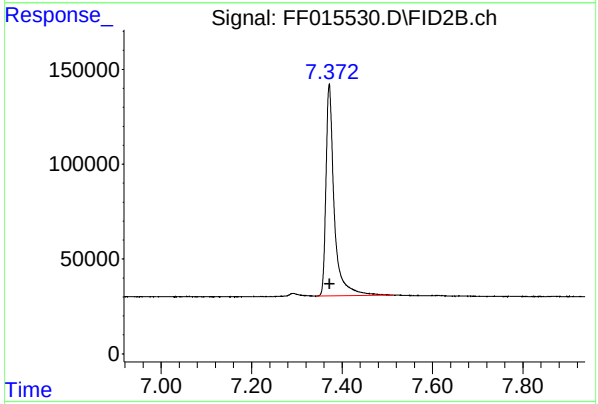
R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 1453713
Conc: 11.33 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



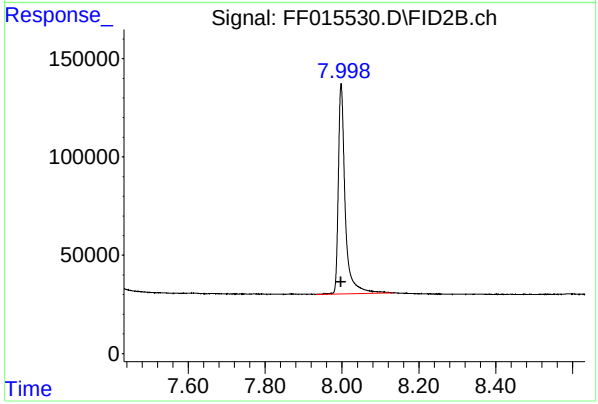
#2 Naphthalene (C11.7)

R.T.: 6.277 min
Delta R.T.: 0.000 min
Response: 1428112
Conc: 10.99 ug/ml



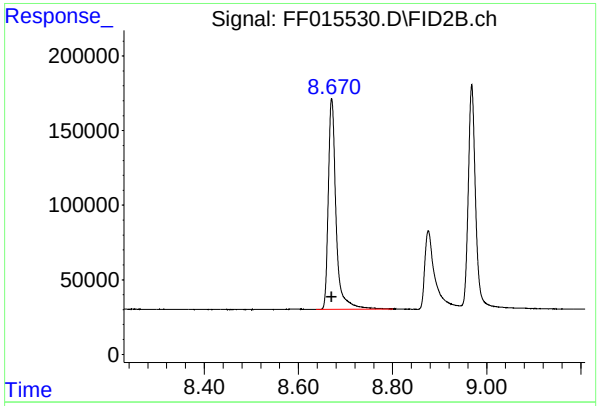
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 1426121
Conc: 11.04 ug/ml



#4 2-Bromonaphthalene (SURR)

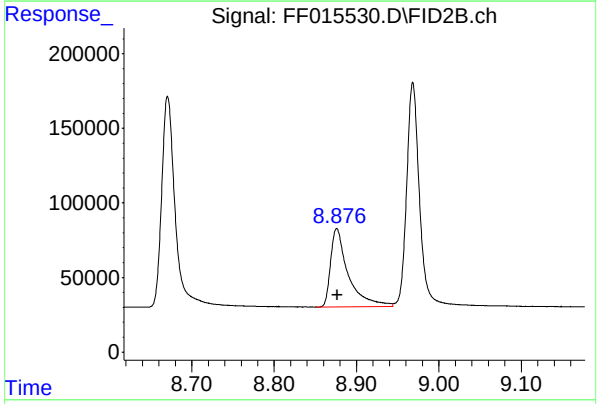
R.T.: 7.998 min
Delta R.T.: 0.000 min
Response: 1328026
Conc: 11.20 ug/ml



#5 Acenaphthylene (C15.06)

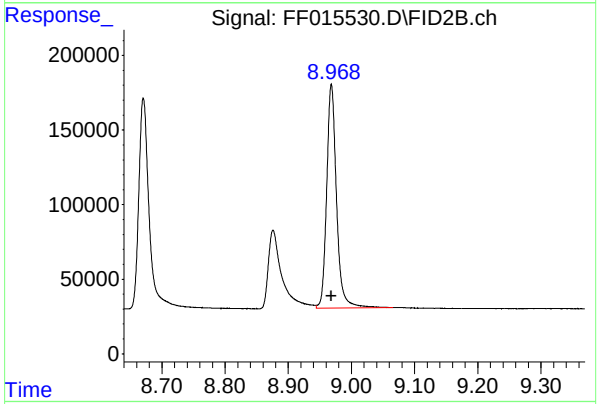
R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 1616916
Conc: 11.52 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



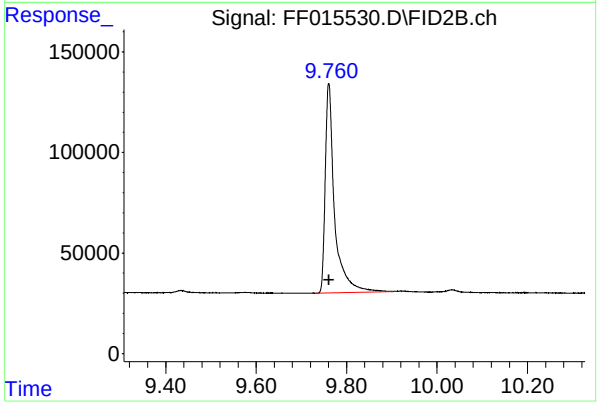
#6 2-Flurobiphenyl (SURR)

R.T.: 8.876 min
Delta R.T.: 0.000 min
Response: 783654
Conc: 10.30 ug/ml



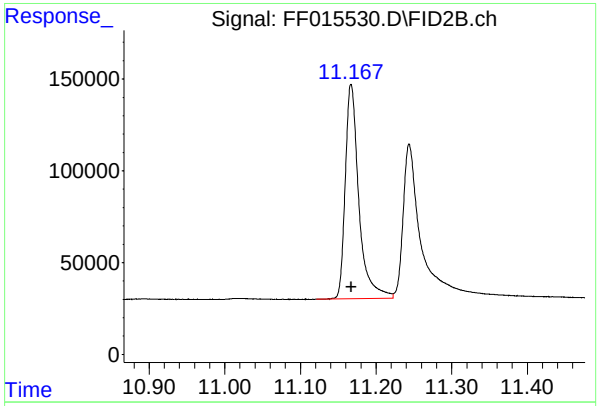
#7 Acenaphthene (C15.5)

R.T.: 8.968 min
Delta R.T.: 0.000 min
Response: 1621490
Conc: 11.60 ug/ml



#8 Flouorene (C16.55)

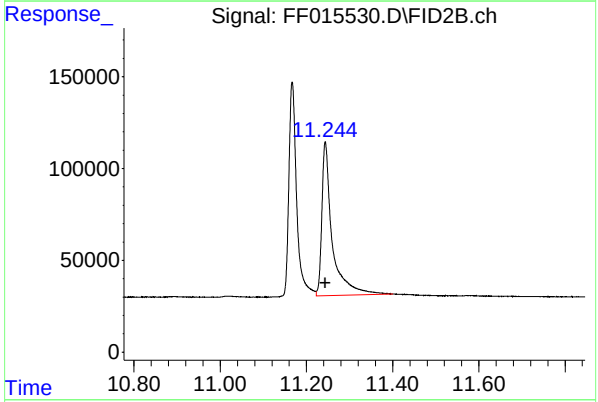
R.T.: 9.761 min
Delta R.T.: 0.000 min
Response: 1494683
Conc: 11.03 ug/ml



#9 Phenanthrene (C19.36)

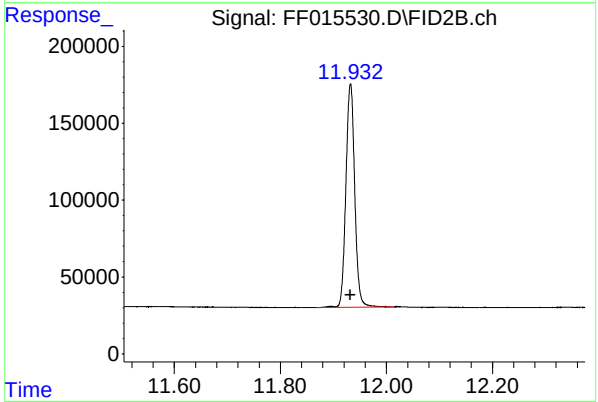
R.T.: 11.167 min
Delta R.T.: 0.000 min
Response: 1458311
Conc: 10.95 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



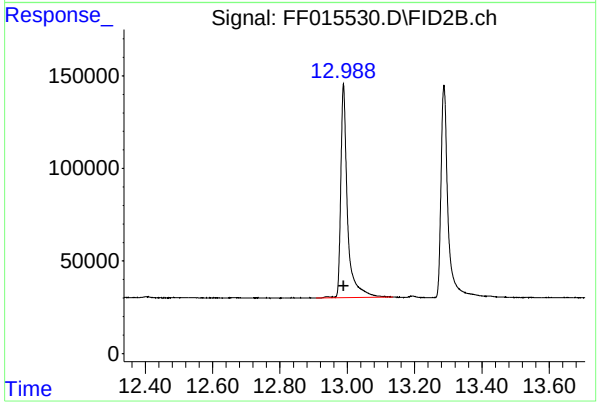
#10 Anthracene (C19.43)

R.T.: 11.244 min
Delta R.T.: 0.000 min
Response: 1405178
Conc: 10.88 ug/ml



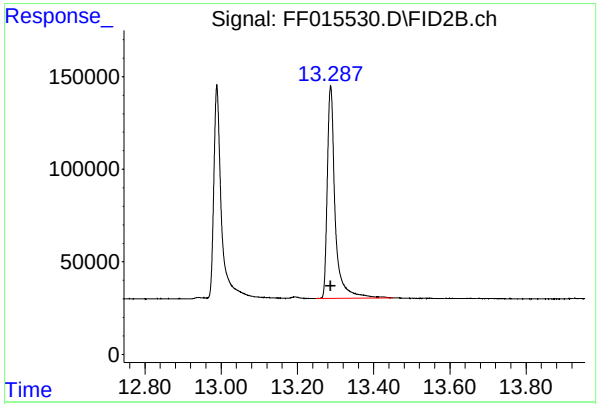
#11 ortho-Terphenyl (SURR)

R.T.: 11.932 min
Delta R.T.: 0.000 min
Response: 1681667
Conc: 11.59 ug/ml



#12 Fluoranthene (C21.85)

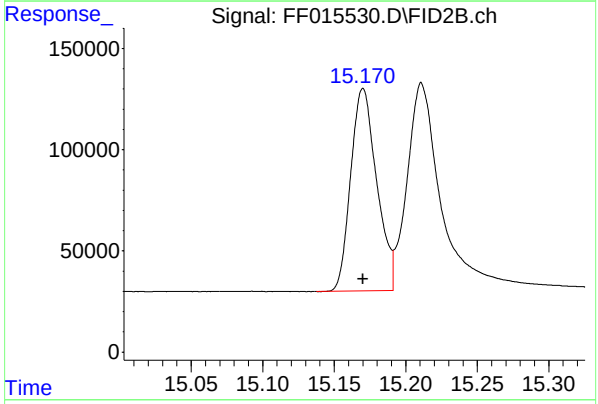
R.T.: 12.989 min
Delta R.T.: 0.000 min
Response: 1604701
Conc: 11.36 ug/ml



#13 Pyrene (C20.8)

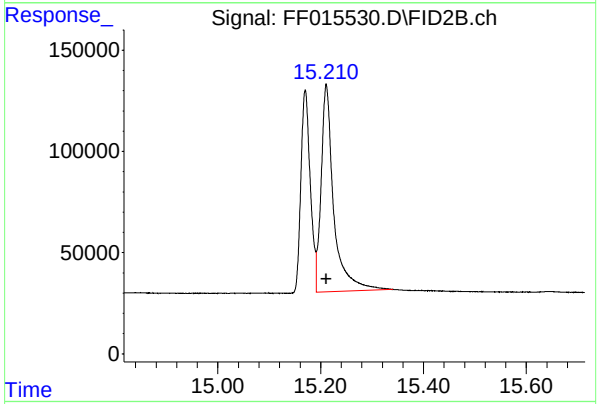
R.T.: 13.287 min
Delta R.T.: 0.000 min
Response: 1650019
Conc: 11.56 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



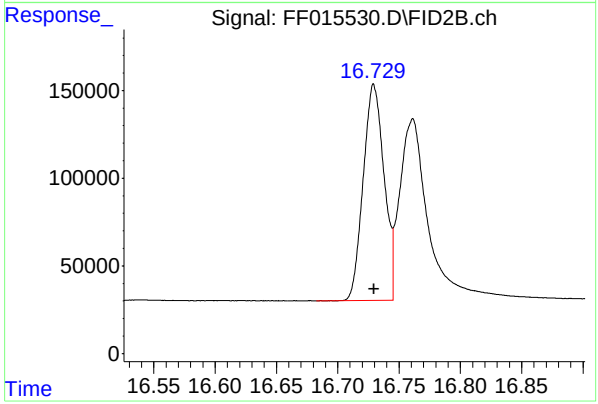
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.170 min
Delta R.T.: 0.000 min
Response: 1262368
Conc: 10.00 ug/ml



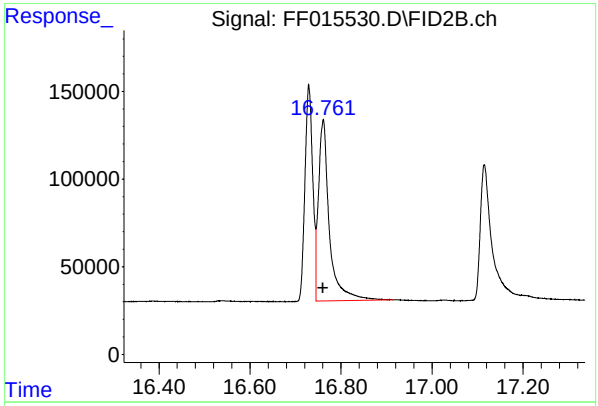
#15 Chrysene (C27.41)

R.T.: 15.211 min
Delta R.T.: 0.000 min
Response: 1748922
Conc: 11.99 ug/ml



#16 benzo[b]fluoranthene (C30.41)

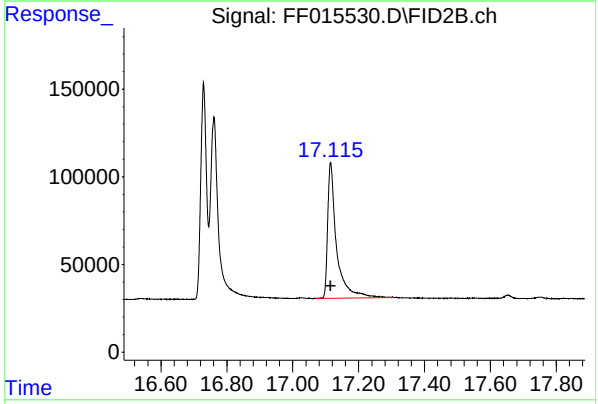
R.T.: 16.730 min
Delta R.T.: 0.000 min
Response: 1459147
Conc: 10.88 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

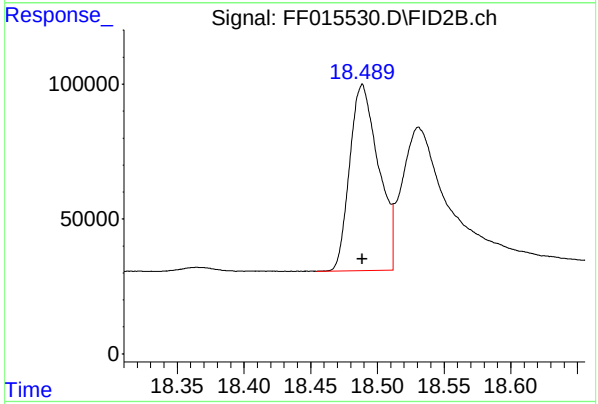
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 1716828
Conc: 11.86 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



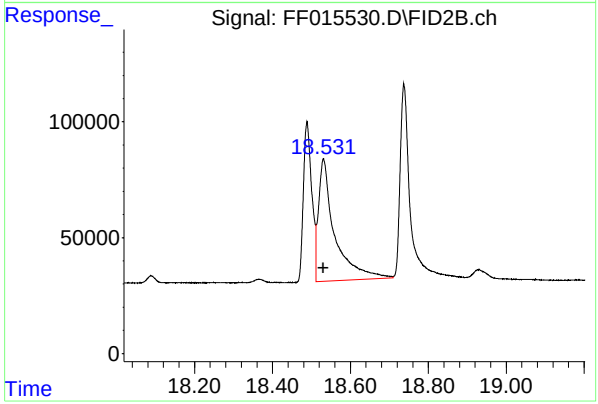
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.115 min
Delta R.T.: 0.000 min
Response: 1455897
Conc: 11.35 ug/ml



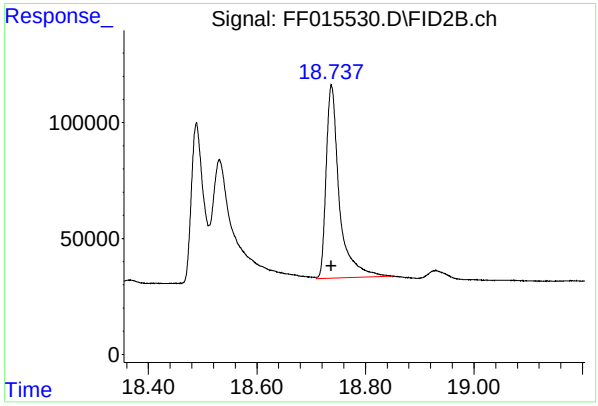
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.489 min
Delta R.T.: 0.000 min
Response: 1036997
Conc: 9.71 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.531 min
Delta R.T.: 0.000 min
Response: 1527081
Conc: 11.53 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.738 min
Delta R.T.: 0.000 mi
Response: 1411226
Conc: 11.19 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015530.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:28
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.606	4.574	4.684	BB	135570	1453713	83.12%	4.755%
2	6.277	6.251	6.401	BB	117203	1428112	81.66%	4.671%
3	7.372	7.342	7.512	BB	111457	1426121	81.54%	4.665%
4	7.998	7.932	8.132	BB	106660	1328026	75.93%	4.344%
5	8.671	8.637	8.801	BB	141051	1616916	92.45%	5.289%
6	8.876	8.851	8.944	BV	52447	783654	44.81%	2.563%
7	8.968	8.944	9.066	VB	149872	1621490	92.71%	5.304%
8	9.761	9.732	9.902	BB	104020	1494683	85.46%	4.889%
9	11.167	11.121	11.222	BV	116524	1458311	83.38%	4.770%
10	11.244	11.222	11.401	VBA	83582	1405178	80.35%	4.596%
11	11.932	11.867	12.012	BB	145556	1681667	96.15%	5.501%
12	12.989	12.907	13.136	BB	115242	1604701	91.75%	5.249%
13	13.287	13.249	13.451	BB	114790	1650019	94.34%	5.397%
14	15.170	15.137	15.191	BV	100083	1262368	72.18%	4.129%
15	15.211	15.191	15.341	VBA	102442	1748922	100.00%	5.721%
16	16.730	16.682	16.745	BV	123335	1459147	83.43%	4.773%
17	16.761	16.745	16.914	VB	103393	1716828	98.16%	5.616%
18	17.115	17.071	17.304	BB	77330	1455897	83.25%	4.762%
19	18.489	18.454	18.512	BV	69163	1036997	59.29%	3.392%
20	18.531	18.512	18.709	VV	52761	1527081	87.32%	4.995%
21	18.738	18.709	18.851	VBA	83306	1411226	80.69%	4.616%
			Sum of corrected areas:			30571055		

Aromatic EPH 022625.M Wed Feb 26 12:45:57 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015531.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 26 12:35:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 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...	8.003	538529	4.626 ug/ml
	Spiked Amount 50.000		Recovery =	9.25%
6)	S 2-Flurobiphenyl (SURR)	8.892	259291	3.640 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	7.28%
11)	S ortho-Terphenyl (SURR)	11.934	776499	5.279 ug/ml
	Spiked Amount 50.000		Recovery =	10.56%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.606	662305	5.130 ug/ml
2)	T Naphthalene (C11.7)	6.281	591957	4.638 ug/ml
3)	T 2-Methylnaphthalene (...	7.378	581701	4.594 ug/ml
5)	T Acenaphthylene (C15.06)	8.674	727458	5.146 ug/ml
7)	T Acenaphthene (C15.5)	8.970	765465	5.374 ug/ml
8)	T Flouorene (C16.55)	9.769	616053	4.630 ug/ml
9)	T Phenanthrene (C19.36)	11.176	587822	4.519 ug/ml
10)	T Anthracene (C19.43)	11.258	548650	4.380 ug/ml
12)	T Fluoranthene (C21.85)	12.998	706215	5.001 ug/ml
13)	T Pyrene (C20.8)	13.294	739289	5.142 ug/ml
14)	T Benzo[a]anthracene (C...	15.181	411104	3.500 ug/ml
15)	T Chrysene (C27.41)	15.219	815728	5.461 ug/ml
16)	T benzo[b]fluoranthene ...	16.737	574628	4.412 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.770	836422	5.605 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.130	606525	4.779 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.510	423177	4.134 ug/ml
20)	T Dibenz[a,h]anthracene...	18.555	582595	4.439 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.747	589049	4.734 ug/ml

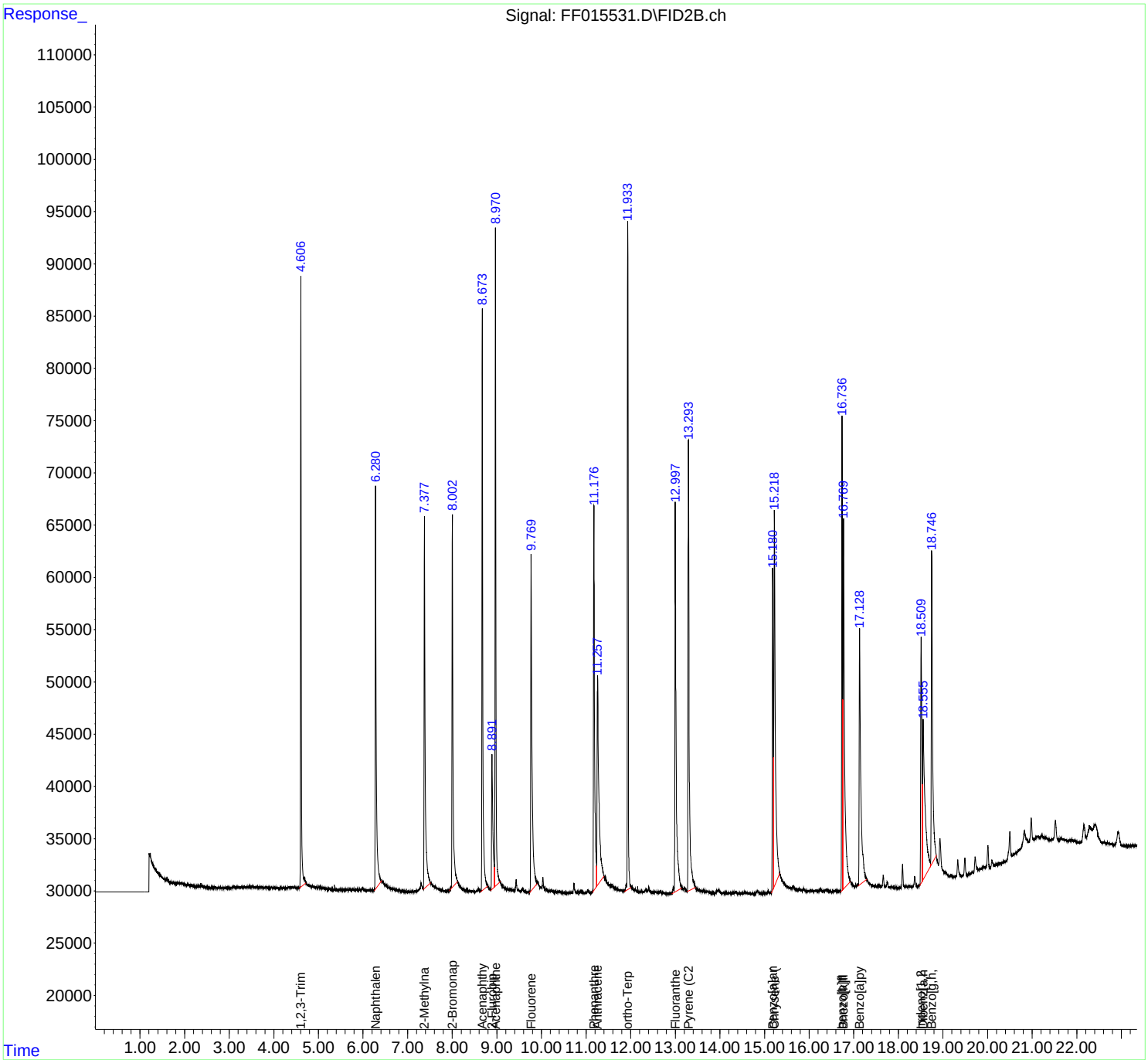
(f)=RT Delta > 1/2 Window (m)=manual int.

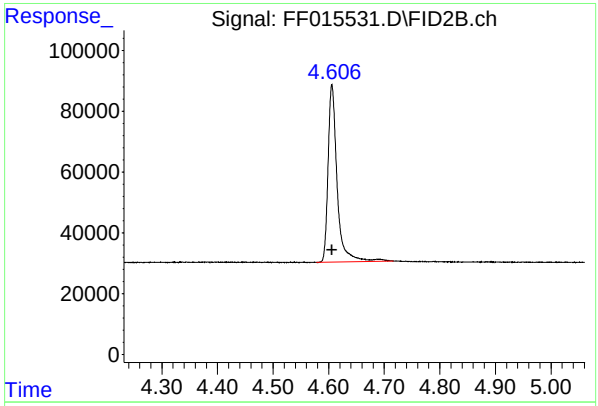
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015531.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 26 12:35:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:26:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

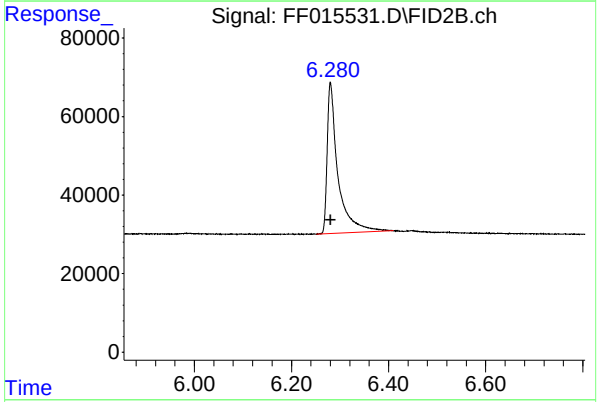




#1 1,2,3-Trimethylbenzene (C10.1)

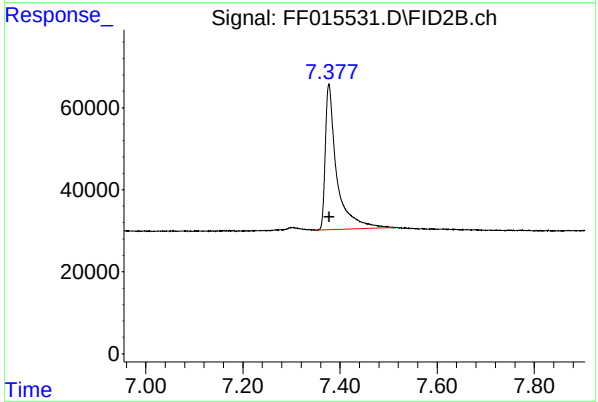
R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 662305
Conc: 5.13 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



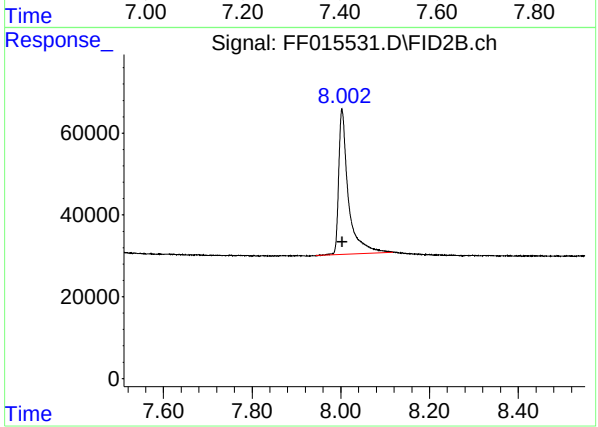
#2 Naphthalene (C11.7)

R.T.: 6.281 min
Delta R.T.: 0.000 min
Response: 591957
Conc: 4.64 ug/ml



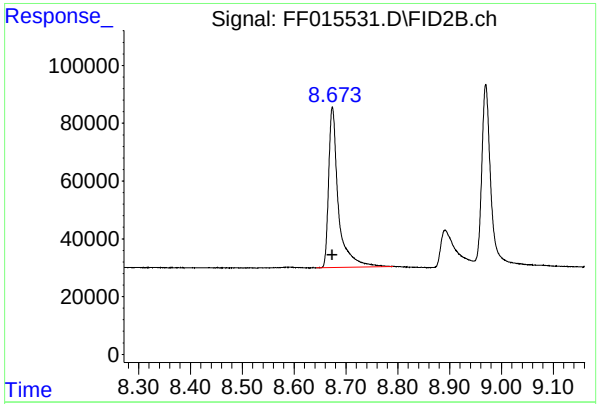
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.378 min
Delta R.T.: 0.000 min
Response: 581701
Conc: 4.59 ug/ml



#4 2-Bromonaphthalene (SURR)

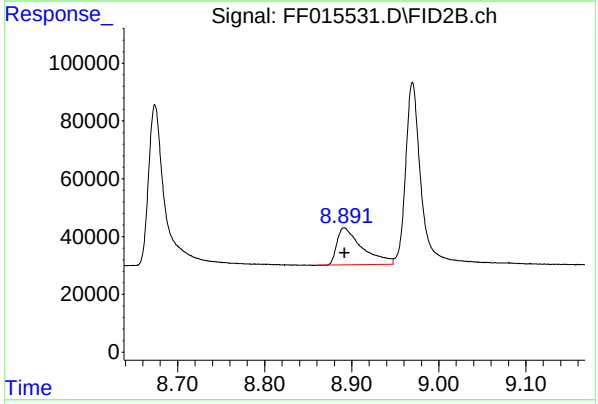
R.T.: 8.003 min
Delta R.T.: 0.000 min
Response: 538529
Conc: 4.63 ug/ml



#5 Acenaphthylene (C15.06)

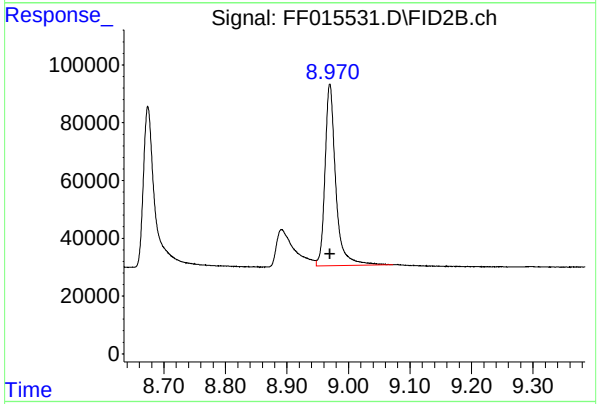
R.T.: 8.674 min
Delta R.T.: 0.000 min
Response: 727458
Conc: 5.15 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



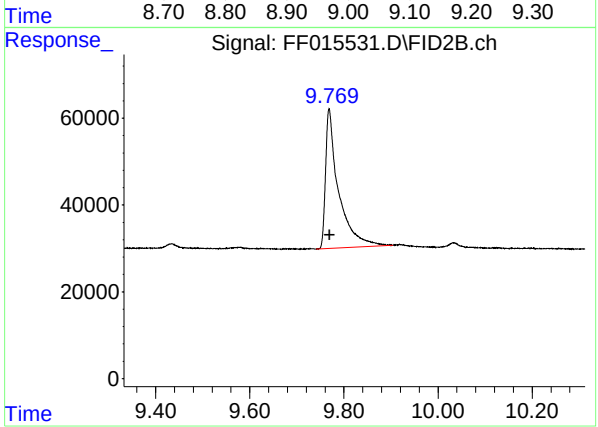
#6 2-Flurobiphenyl (SURR)

R.T.: 8.892 min
Delta R.T.: 0.000 min
Response: 259291
Conc: 3.64 ug/ml



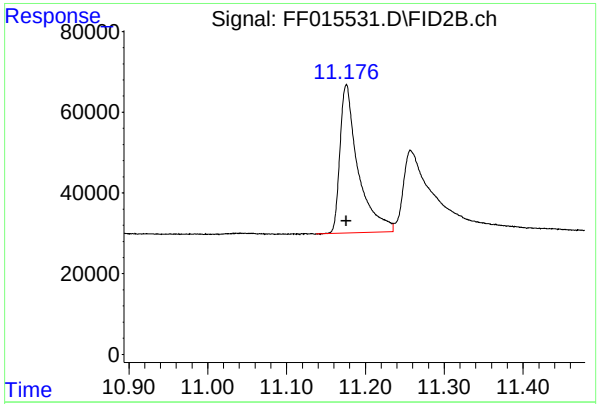
#7 Acenaphthene (C15.5)

R.T.: 8.970 min
Delta R.T.: 0.000 min
Response: 765465
Conc: 5.37 ug/ml



#8 Flouorene (C16.55)

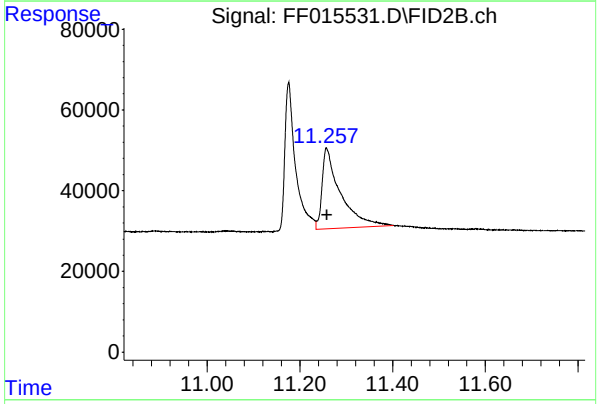
R.T.: 9.769 min
Delta R.T.: 0.000 min
Response: 616053
Conc: 4.63 ug/ml



#9 Phenanthrene (C19.36)

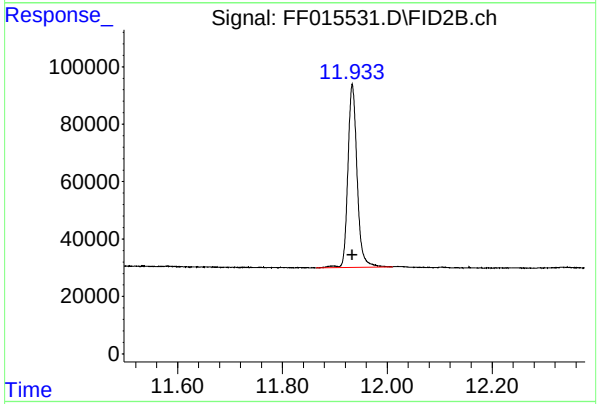
R.T.: 11.176 min
Delta R.T.: 0.000 min
Response: 587822
Conc: 4.52 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



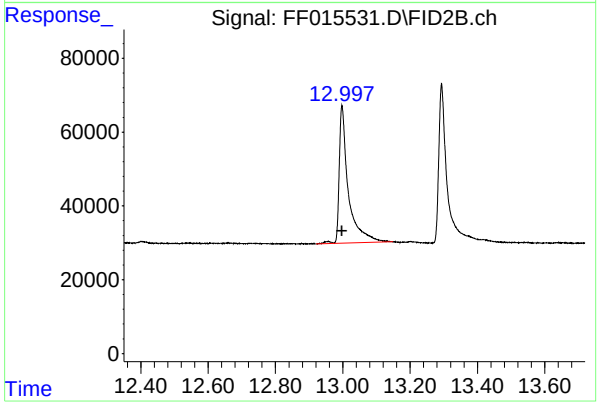
#10 Anthracene (C19.43)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 548650
Conc: 4.38 ug/ml



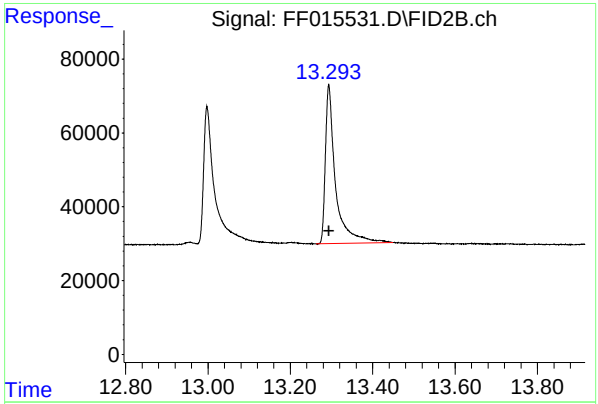
#11 ortho-Terphenyl (SURR)

R.T.: 11.934 min
Delta R.T.: 0.000 min
Response: 776499
Conc: 5.28 ug/ml



#12 Fluoranthene (C21.85)

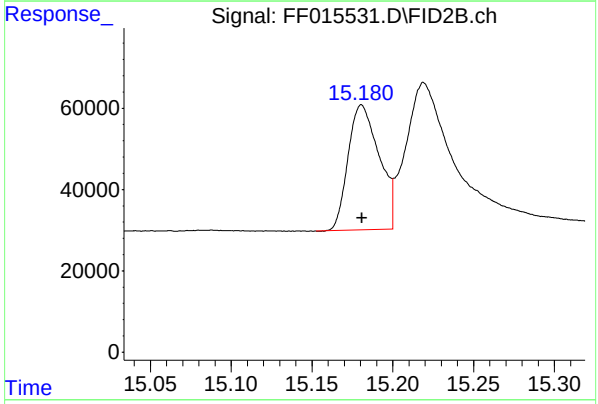
R.T.: 12.998 min
Delta R.T.: 0.000 min
Response: 706215
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

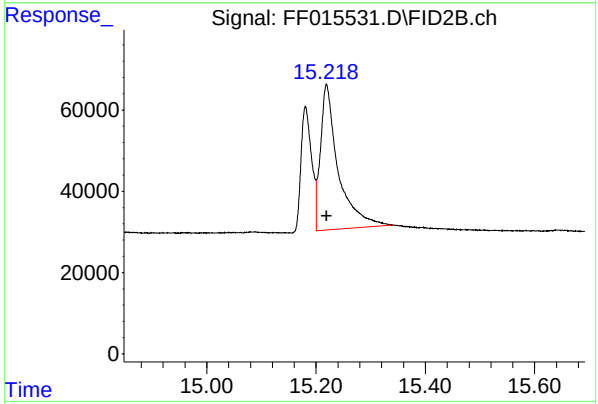
R.T.: 13.294 min
Delta R.T.: 0.000 min
Response: 739289
Conc: 5.14 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



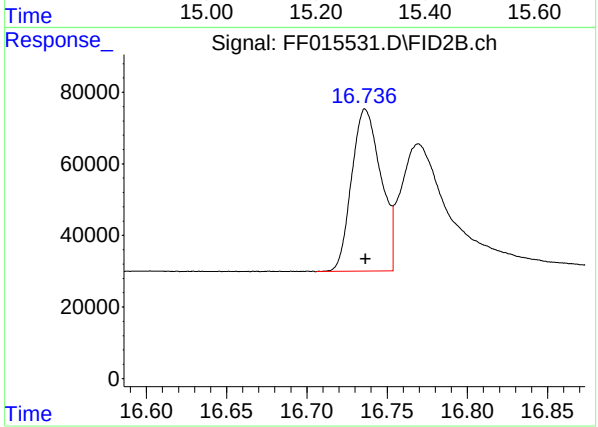
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.181 min
Delta R.T.: 0.000 min
Response: 411104
Conc: 3.50 ug/ml



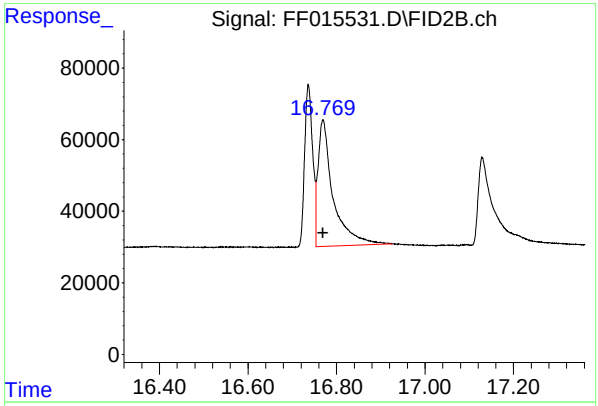
#15 Chrysene (C27.41)

R.T.: 15.219 min
Delta R.T.: 0.000 min
Response: 815728
Conc: 5.46 ug/ml



#16 benzo[b]fluoranthene (C30.41)

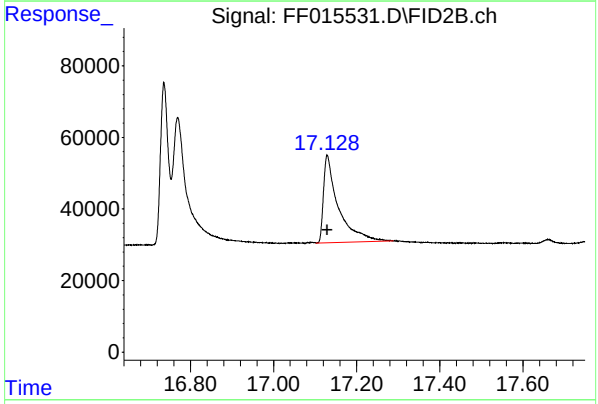
R.T.: 16.737 min
Delta R.T.: 0.000 min
Response: 574628
Conc: 4.41 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

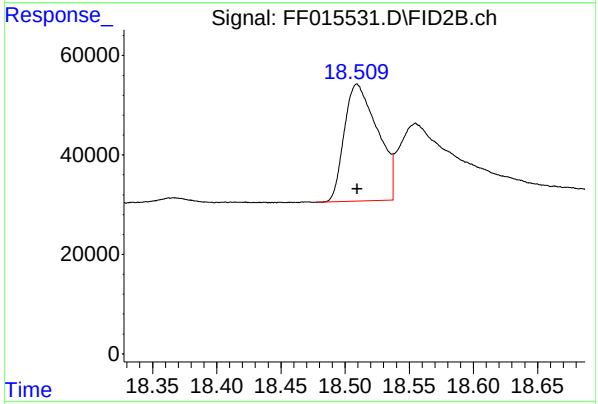
R.T.: 16.770 min
Delta R.T.: 0.000 min
Response: 836422
Conc: 5.61 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



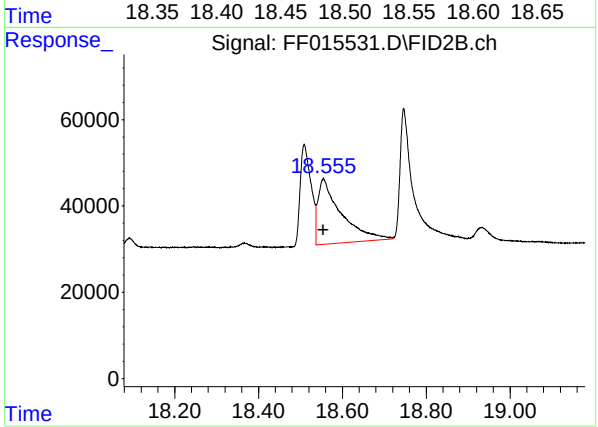
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.130 min
Delta R.T.: 0.000 min
Response: 606525
Conc: 4.78 ug/ml



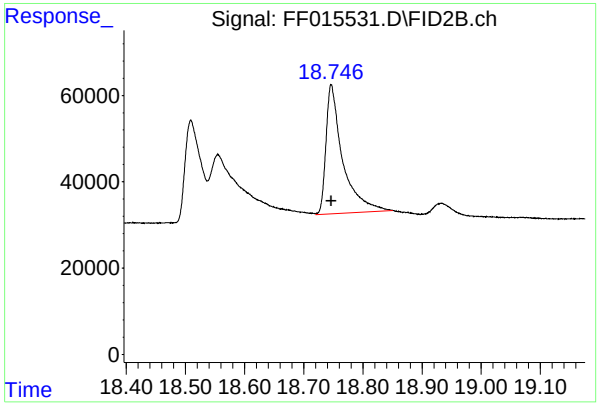
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.510 min
Delta R.T.: 0.000 min
Response: 423177
Conc: 4.13 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.555 min
Delta R.T.: 0.000 min
Response: 582595
Conc: 4.44 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.747 min
Delta R.T.: 0.000 mi
Response: 589049
Conc: 4.73 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015531.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 10:58
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.606	4.577	4.716	BB	58285	662305	79.18%	5.118%
2	6.281	6.251	6.409	BB	38261	591957	70.77%	4.574%
3	7.378	7.351	7.509	BB	35460	581701	69.55%	4.495%
4	8.003	7.944	8.117	BB	35575	538529	64.38%	4.162%
5	8.674	8.642	8.791	BB	55514	727458	86.97%	5.622%
6	8.892	8.859	8.947	BV	12790	259291	31.00%	2.004%
7	8.970	8.947	9.072	VB	62983	765465	91.52%	5.915%
8	9.769	9.741	9.904	BB	32061	616053	73.65%	4.761%
9	11.176	11.137	11.235	BV	36746	587822	70.28%	4.543%
10	11.258	11.235	11.401	VBA	19936	548650	65.59%	4.240%
11	11.934	11.864	12.011	BB	63598	776499	92.84%	6.001%
12	12.998	12.921	13.149	BB	37149	706215	84.43%	5.457%
13	13.294	13.262	13.449	BB	42977	739289	88.39%	5.713%
14	15.181	15.152	15.200	BV	30775	411104	49.15%	3.177%
15	15.219	15.200	15.341	VBA	35905	815728	97.53%	6.304%
16	16.737	16.706	16.754	BV	44969	574628	68.70%	4.441%
17	16.770	16.754	16.927	VB	35432	836422	100.00%	6.464%
18	17.130	17.102	17.287	BB	24418	606525	72.51%	4.687%
19	18.510	18.477	18.537	BV	23522	423177	50.59%	3.270%
20	18.555	18.537	18.721	VV	15257	582595	69.65%	4.502%
21	18.747	18.721	18.851	VBA	29878	589049	70.42%	4.552%
			Sum of corrected areas:			12940460		

Aromatic EPH 022625.M Wed Feb 26 12:45:40 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015532.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:27
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 26 12:37:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.997	2223183	19.097 ug/ml
	Spiked Amount 50.000		Recovery =	38.19%
6)	S 2-Flurobiphenyl (SURR)	8.873	1393028	19.556 ug/ml
	Spiked Amount 50.000 Range	0 - 131	Recovery =	39.11%
11)	S ortho-Terphenyl (SURR)	11.932	2758671	18.753 ug/ml
	Spiked Amount 50.000		Recovery =	37.51%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.604	2444721	18.937 ug/ml
2)	T Naphthalene (C11.7)	6.275	2428126	19.025 ug/ml
3)	T 2-Methylnaphthalene (...	7.370	2417949	19.096 ug/ml
5)	T Acenaphthylene (C15.06)	8.671	2656254	18.791 ug/ml
7)	T Acenaphthene (C15.5)	8.969	2656870	18.654 ug/ml
8)	T Flouorene (C16.55)	9.760	2532143	19.030 ug/ml
9)	T Phenanthrene (C19.36)	11.167	2491796	19.156 ug/ml
10)	T Anthracene (C19.43)	11.242	2419377	19.316 ug/ml
12)	T Fluoranthene (C21.85)	12.988	2674844	18.941 ug/ml
13)	T Pyrene (C20.8)	13.286	2753238	19.151 ug/ml
14)	T Benzo[a]anthracene (C...	15.169	2379295	20.255 ug/ml
15)	T Chrysene (C27.41)	15.211	2846808	19.060 ug/ml
16)	T benzo[b]fluoranthene ...	16.729	2598123	19.949 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.761	2873167	19.255 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.111	2501469	19.711 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.484	1945146	19.004 ug/mlm
20)	T Dibenz[a,h]anthracene...	18.524	2639296	20.413 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.738	2475509	19.893 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

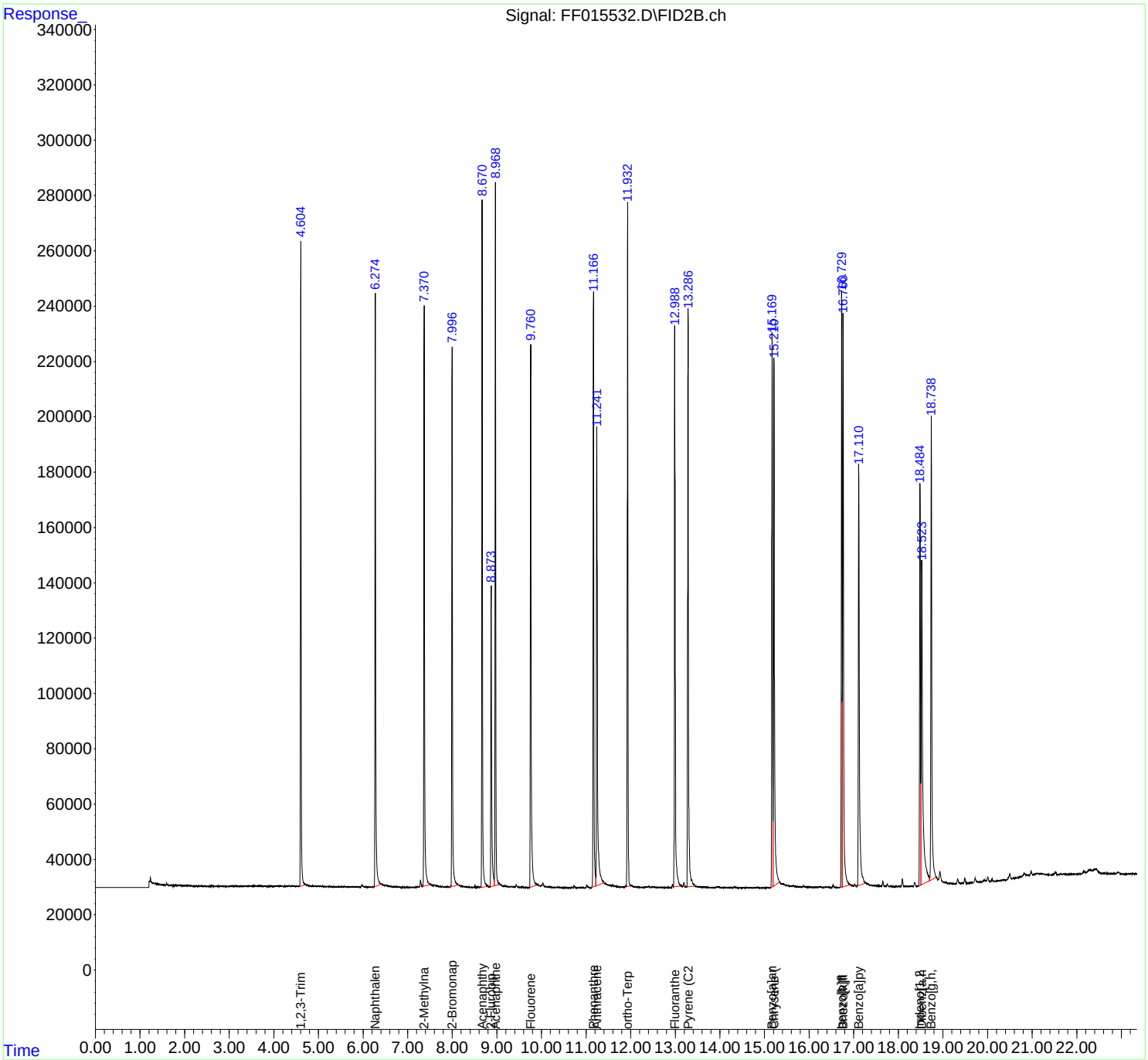
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF022625AR\
Data File : FF015532.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:27
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

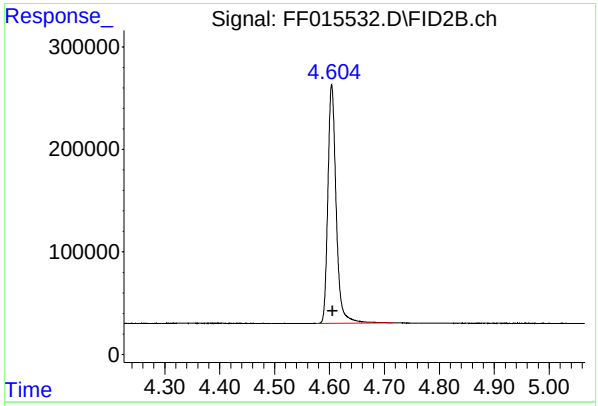
Integration File: autoint1.e
Quant Time: Feb 26 12:37:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025





#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 2444721
Conc: 18.94 ug/ml

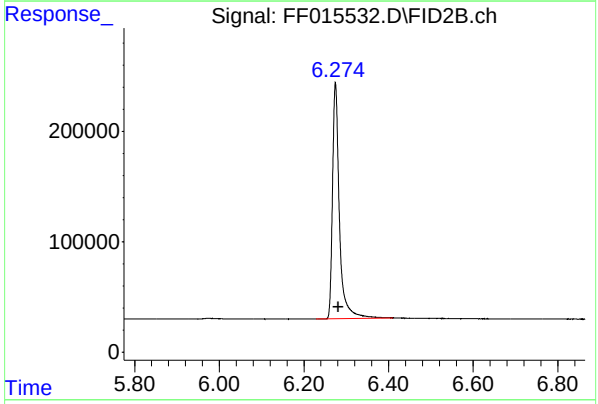
12

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

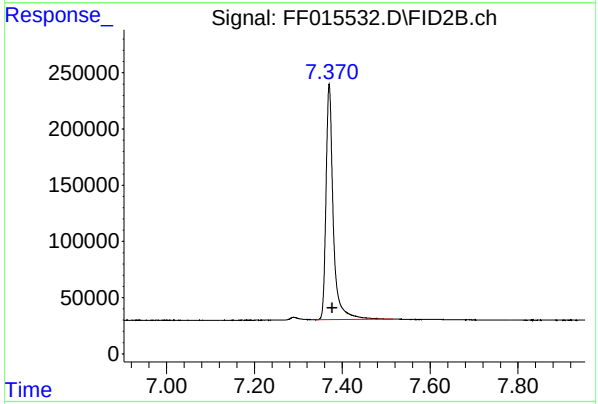
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025

A B C D E F G H I J



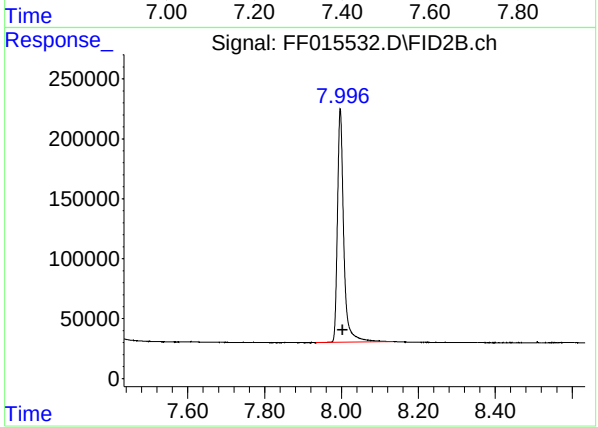
#2 Naphthalene (C11.7)

R.T.: 6.275 min
Delta R.T.: -0.006 min
Response: 2428126
Conc: 19.03 ug/ml



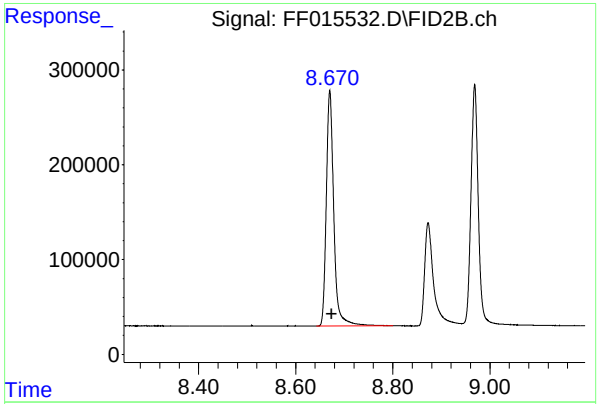
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.370 min
Delta R.T.: -0.007 min
Response: 2417949
Conc: 19.10 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.997 min
Delta R.T.: -0.006 min
Response: 2223183
Conc: 19.10 ug/ml



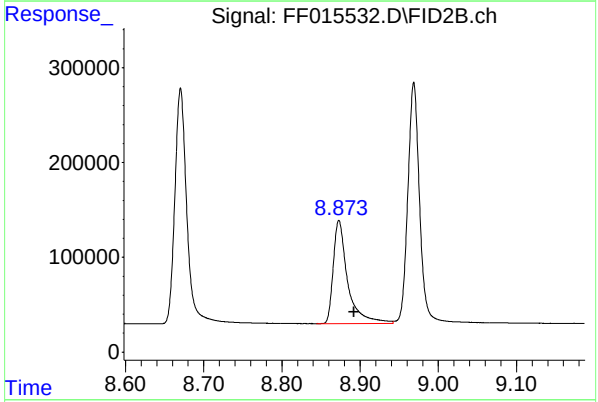
#5 Acenaphthylene (C15.06)

R.T.: 8.671 min
Delta R.T.: -0.004 min
Response: 2656254
Conc: 18.79 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

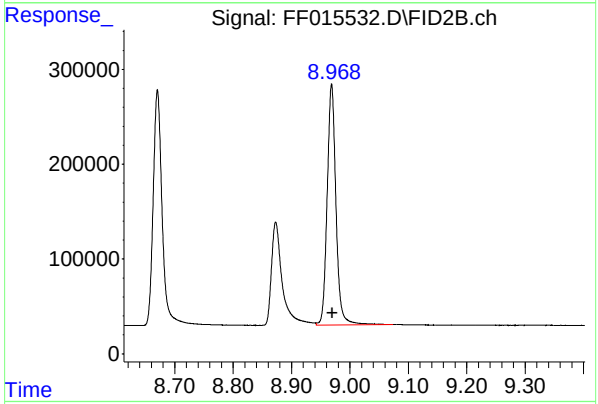
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025



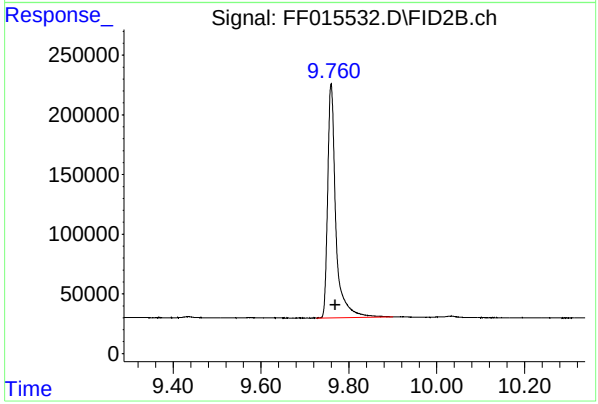
#6 2-Flurobiphenyl (SURR)

R.T.: 8.873 min
Delta R.T.: -0.019 min
Response: 1393028
Conc: 19.56 ug/ml



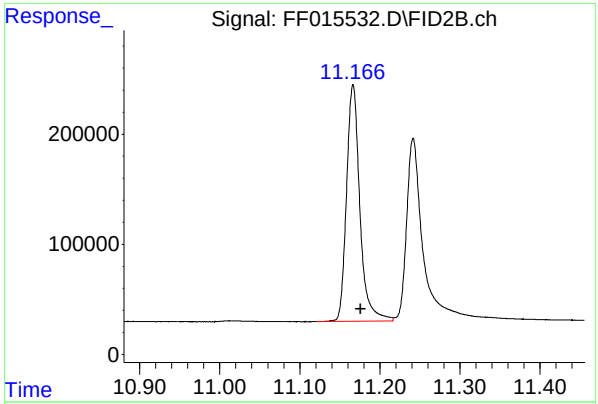
#7 Acenaphthene (C15.5)

R.T.: 8.969 min
Delta R.T.: -0.001 min
Response: 2656870
Conc: 18.65 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.760 min
Delta R.T.: -0.009 min
Response: 2532143
Conc: 19.03 ug/ml



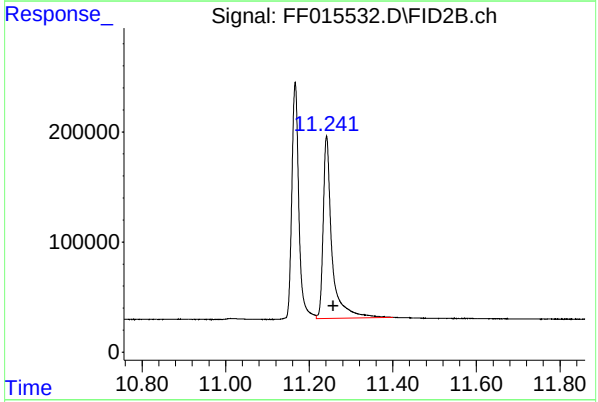
#9 Phenanthrene (C19.36)

R.T.: 11.167 min
Delta R.T.: -0.010 min
Response: 2491796
Conc: 19.16 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

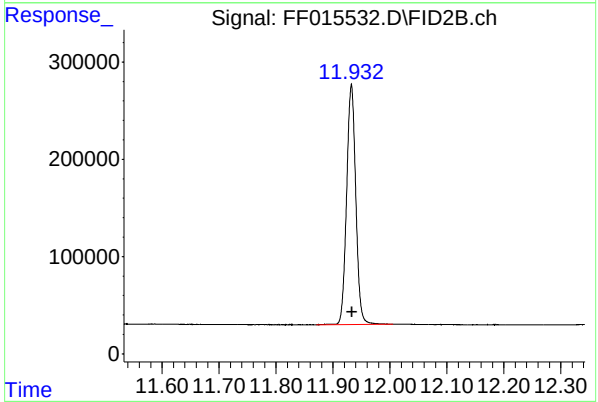
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025



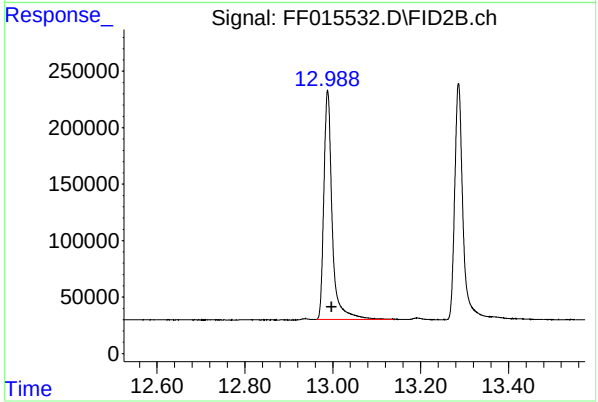
#10 Anthracene (C19.43)

R.T.: 11.242 min
Delta R.T.: -0.016 min
Response: 2419377
Conc: 19.32 ug/ml



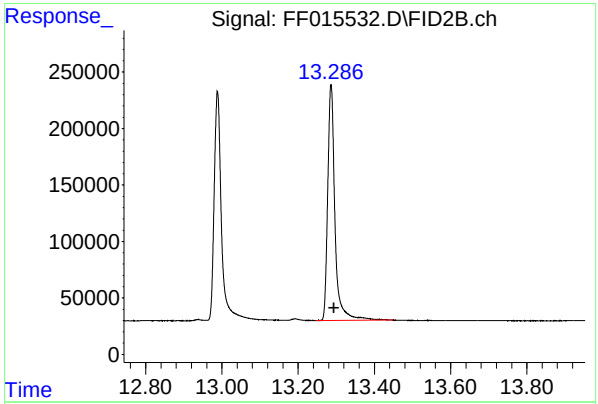
#11 ortho-Terphenyl (SURR)

R.T.: 11.932 min
Delta R.T.: -0.001 min
Response: 2758671
Conc: 18.75 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.988 min
Delta R.T.: -0.010 min
Response: 2674844
Conc: 18.94 ug/ml



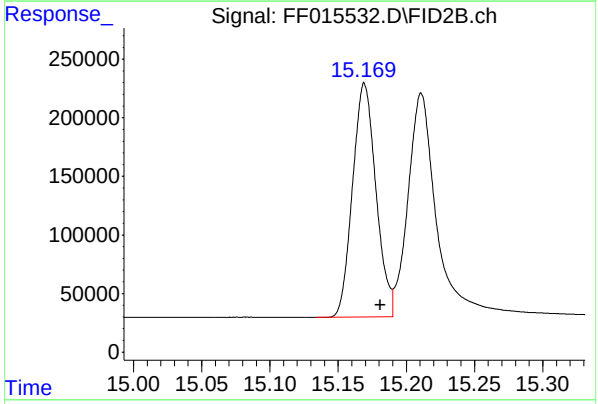
#13 Pyrene (C20.8)

R.T.: 13.286 min
Delta R.T.: -0.007 min
Response: 2753238
Conc: 19.15 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

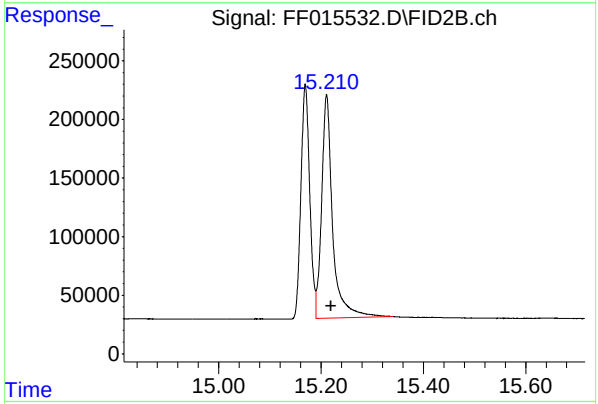
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025



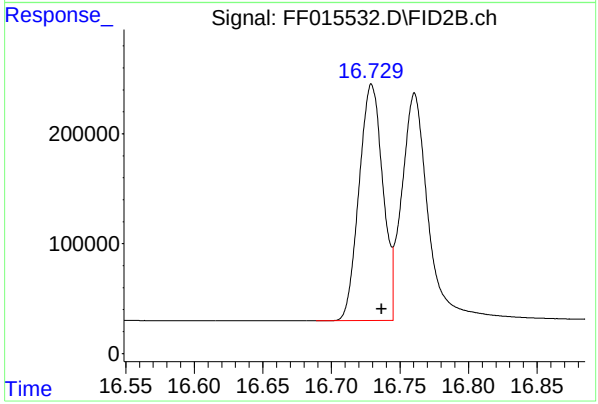
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.169 min
Delta R.T.: -0.012 min
Response: 2379295
Conc: 20.26 ug/ml



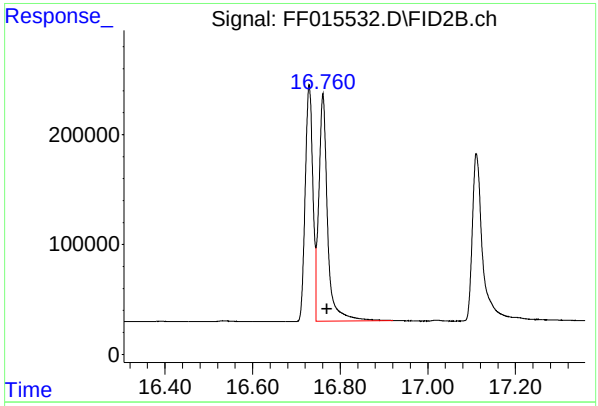
#15 Chrysene (C27.41)

R.T.: 15.211 min
Delta R.T.: -0.009 min
Response: 2846808
Conc: 19.06 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.729 min
Delta R.T.: -0.007 min
Response: 2598123
Conc: 19.95 ug/ml



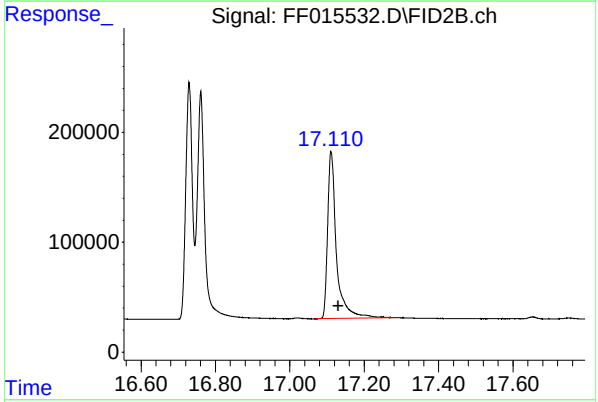
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.761 min
Delta R.T.: -0.009 min
Response: 2873167
Conc: 19.26 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

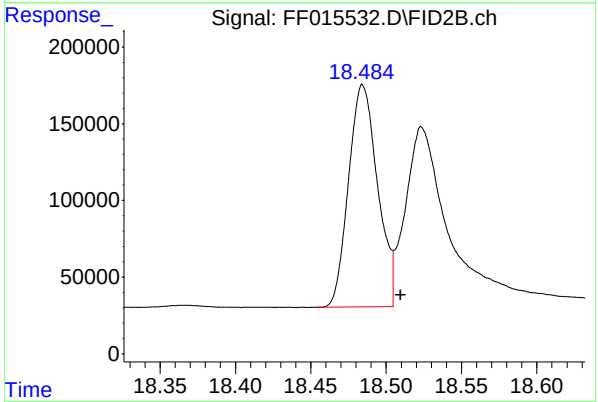
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025



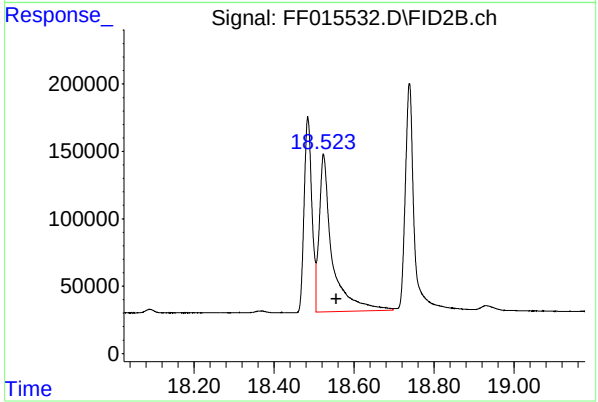
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.111 min
Delta R.T.: -0.019 min
Response: 2501469
Conc: 19.71 ug/ml



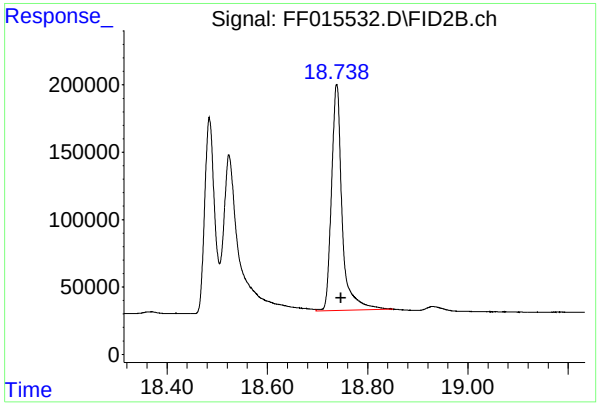
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.484 min
Delta R.T.: -0.026 min
Response: 1945146
Conc: 19.00 ug/ml m



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.524 min
Delta R.T.: -0.031 min
Response: 2639296
Conc: 20.41 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.738 min
Delta R.T.: -0.009 mi
Response: 2475509
Conc: 19.89 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025

12

A B C D E F G H I J

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02262
Data File : FF015532.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:27
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.604	4.575	4.715	BB	232836	2444721	85.09%	4.692%
2	6.275	6.229	6.410	BB	212781	2428126	84.51%	4.660%
3	7.370	7.340	7.515	BB	209417	2417949	84.16%	4.640%
4	7.997	7.934	8.134	BB	194548	2223183	77.38%	4.266%
5	8.671	8.642	8.800	BB	248331	2656254	92.45%	5.097%
6	8.873	8.844	8.942	BV	108403	1393028	48.48%	2.673%
7	8.969	8.942	9.074	VB	254046	2656870	92.47%	5.099%
8	9.760	9.725	9.900	BB	196152	2532143	88.13%	4.859%
9	11.167	11.120	11.216	BV	215323	2491796	86.73%	4.782%
10	11.242	11.216	11.400	VBA	165686	2419377	84.21%	4.643%
11	11.932	11.870	12.005	BB	246436	2758671	96.01%	5.294%
12	12.988	12.962	13.137	BB	202419	2674844	93.10%	5.133%
13	13.286	13.247	13.449	BB	208846	2753238	95.83%	5.284%
14	15.169	15.134	15.190	BV	199821	2379295	82.81%	4.566%
15	15.211	15.190	15.340	VBA	190853	2846808	99.08%	5.463%
16	16.729	16.689	16.745	BV	215314	2598123	90.43%	4.986%
17	16.761	16.745	16.920	VB	207100	2873167	100.00%	5.514%
18	17.111	17.070	17.277	BB	151174	2501469	87.06%	4.800%
19	18.485	18.450	18.505	BV	145033	1945141	67.70%	3.733%
20	18.524	18.505	18.697	VV	116704	2639296	91.86%	5.065%
21	18.738	18.697	18.850	VBA	167898	2475509	86.16%	4.751%
			Sum of corrected areas:			52109006		

Aromatic EPH 022625.M Wed Feb 26 12:44:55 2025

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

Continuing Calibration Report for SequenceID : FC030525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068368.D**						
Aliphatic EPH	40236785.000	360.000	3.102	21.556	111768.847	122175.127	8.518
Aliphatic C9-C12	7078387.000	60.000	3.102	6.366	117973.117	141035.502	16.352
Aliphatic C16-C21	6684413.000	60.000	9.750	13.103	111406.883	131630.895	15.364
Aliphatic C21-C28	9380589.000	80.000	13.104	16.755	117257.363	122691.322	4.429
Aliphatic C28-C40	12521412.000	120.000	16.756	21.556	104345.100	102846.462	-1.457
Aliphatic C12-C16	4571984.000	40.000	6.367	9.749	114299.600	136654.515	16.359

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Mar 2025 15:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068368.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.102	6.366	7078387.000	60.000	ug/ml
Aliphatic C12-C16	6.367	9.749	4571984.000	40.000	ug/ml
Aliphatic C16-C21	9.750	13.103	6684413.000	60.000	ug/ml
Aliphatic C21-C28	13.104	16.755	9380589.000	80.000	ug/ml
Aliphatic C28-C40	16.756	21.556	12521412.000	120.000	ug/ml
Aliphatic EPH	3.102	21.556	40236785.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC030525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068376.D**						
Aliphatic EPH	44765920.000	360.000	3.102	21.556	124349.778	122175.127	-1.780
Aliphatic C9-C12	8592043.000	60.000	3.102	6.366	143200.717	141035.502	-1.535
Aliphatic C16-C21	8029066.000	60.000	9.750	13.103	133817.767	131630.895	-1.661
Aliphatic C21-C28	10022524.000	80.000	13.104	16.755	125281.550	122691.322	-2.111
Aliphatic C28-C40	12601397.000	120.000	16.756	21.556	105011.642	102846.462	-2.105
Aliphatic C12-C16	5520890.000	40.000	6.367	9.749	138022.250	136654.515	-1.001

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Mar 2025 20:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068376.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.102	6.366	8592043.000	60.000	ug/ml
Aliphatic C12-C16	6.367	9.749	5520890.000	40.000	ug/ml
Aliphatic C16-C21	9.750	13.103	8029066.000	60.000	ug/ml
Aliphatic C21-C28	13.104	16.755	10022524.000	80.000	ug/ml
Aliphatic C28-C40	16.756	21.556	12601397.000	120.000	ug/ml
Aliphatic EPH	3.102	21.556	44765920.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD030525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049158.D**						
Aromatic C10-C12	6556391.000	40.000	4.075	5.793	163909.775	159020.606	-3.075
Aromatic C12-C16	10059952.000	60.000	5.794	8.395	167665.867	160935.866	-4.182
Aromatic C16-C21	12177228.000	80.000	8.396	12.660	152215.350	153359.309	0.746
Aromatic C21-C36	25536741.000	180.000	12.661	18.072	141870.783	143114.753	0.869
Aromatic EPH	54330312.000	360.000	4.075	18.072	150917.533	150128.823	-0.525

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	05 Mar 2025 15:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049158.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6556391.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.395	10059952.000	60.000	ug/ml
Aromatic C16-C21	8.396	12.660	12177228.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.072	25536741.000	180.000	ug/ml
Aromatic EPH	4.075	18.072	54330312.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD030525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049166.D**						
Aromatic C10-C12	6523459.000	40.000	4.075	5.793	163086.475	159020.606	-2.557
Aromatic C12-C16	10110953.000	60.000	5.794	8.395	168515.883	160935.866	-4.710
Aromatic C16-C21	12497804.000	80.000	8.396	12.660	156222.550	153359.309	-1.867
Aromatic C21-C36	25202288.000	180.000	12.661	18.072	140012.711	143114.753	2.168
Aromatic EPH	54334504.000	360.000	4.075	18.072	150929.178	150128.823	-0.533

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	05 Mar 2025 20:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049166.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6523459.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.395	10110953.000	60.000	ug/ml
Aromatic C16-C21	8.396	12.660	12497804.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.072	25202288.000	180.000	ug/ml
Aromatic EPH	4.075	18.072	54334504.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FE031025AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE052707.D**						
Aliphatic C9-C12	9658611.000	60.000	3.151	6.796	160976.850	155948.436	-3.224
Aliphatic C12-C16	6261558.000	40.000	6.797	10.250	156538.950	152098.489	-2.919
Aliphatic C16-C21	8993508.000	60.000	10.251	13.630	149891.800	146548.085	-2.282
Aliphatic C21-C28	11838283.000	80.000	13.631	17.305	147978.538	142451.851	-3.880
Aliphatic C28-C40	16154870.000	120.000	17.306	22.234	134623.917	127589.108	-5.514
Aliphatic EPH	52906830.000	360.000	3.151	22.234	146963.417	141501.588	-3.860

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Mar 2025 19:02
Client Sample ID:		Operator:	YP\AJ
Data file:	FE052707.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.151	6.796	9658611.000	60.000	ug/ml
Aliphatic C12-C16	6.797	10.250	6261558.000	40.000	ug/ml
Aliphatic C16-C21	10.251	13.630	8993508.000	60.000	ug/ml
Aliphatic C21-C28	13.631	17.305	11838283.000	80.000	ug/ml
Aliphatic C28-C40	17.306	22.234	16154870.000	120.000	ug/ml
Aliphatic EPH	3.151	22.234	52906830.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FE031025AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE052724.D**						
Aliphatic C9-C12	9237193.000	60.000	3.151	6.796	153953.217	155948.436	1.279
Aliphatic C12-C16	6047186.000	40.000	6.797	10.250	151179.650	152098.489	0.604
Aliphatic C16-C21	8666452.000	60.000	10.251	13.630	144440.867	146548.085	1.438
Aliphatic C21-C28	11193884.000	80.000	13.631	17.305	139923.550	142451.851	1.775
Aliphatic C28-C40	16605991.000	120.000	17.306	22.234	138383.258	127589.108	-8.460
Aliphatic EPH	51750706.000	360.000	3.151	22.234	143751.961	141501.588	-1.590

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	11 Mar 2025 04:34
Client Sample ID:		Operator:	YP\AJ
Data file:	FE052724.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.151	6.796	9237193.000	60.000	ug/ml
Aliphatic C12-C16	6.797	10.250	6047186.000	40.000	ug/ml
Aliphatic C16-C21	10.251	13.630	8666452.000	60.000	ug/ml
Aliphatic C21-C28	13.631	17.305	11193884.000	80.000	ug/ml
Aliphatic C28-C40	17.306	22.234	16605991.000	120.000	ug/ml
Aliphatic EPH	3.151	22.234	51750706.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FF031025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015628.D**						
Aromatic C10-C12	5303513.000	40.000	4.505	6.377	132587.825	128361.211	-3.293
Aromatic C12-C16	8424119.000	60.000	6.378	9.069	140401.983	136800.309	-2.633
Aromatic C16-C21	10513836.000	80.000	9.070	13.390	131422.950	133038.999	1.215
Aromatic C21-C36	21153413.000	180.000	13.391	18.845	117518.961	130055.838	9.640
Aromatic EPH	45394881.000	360.000	4.505	18.845	126096.892	131654.549	4.221

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Mar 2025 13:29
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015628.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.505	6.377	5303513.000	40.000	ug/ml
Aromatic C12-C16	6.378	9.069	8424119.000	60.000	ug/ml
Aromatic C16-C21	9.070	13.390	10513836.000	80.000	ug/ml
Aromatic C21-C36	13.391	18.845	21153413.000	180.000	ug/ml
Aromatic EPH	4.505	18.845	45394881.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FF031025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015645.D**						
Aromatic C10-C12	5366584.000	40.000	4.505	6.377	134164.600	128361.211	-4.521
Aromatic C12-C16	8486524.000	60.000	6.378	9.069	141442.067	136800.309	-3.393
Aromatic C16-C21	10783294.000	80.000	9.070	13.390	134791.175	133038.999	-1.317
Aromatic C21-C36	22388226.000	180.000	13.391	18.845	124379.033	130055.838	4.365
Aromatic EPH	47024628.000	360.000	4.505	18.845	130623.967	131654.549	0.783

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	11 Mar 2025 01:05
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015645.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.505	6.377	5366584.000	40.000	ug/ml
Aromatic C12-C16	6.378	9.069	8486524.000	60.000	ug/ml
Aromatic C16-C21	9.070	13.390	10783294.000	80.000	ug/ml
Aromatic C21-C36	13.391	18.845	22388226.000	180.000	ug/ml
Aromatic EPH	4.505	18.845	47024628.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052711.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:32
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:23:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.359	6193125	51.003 ug/ml
Spiked Amount 50.000		Recovery = 102.01%	
Target Compounds			

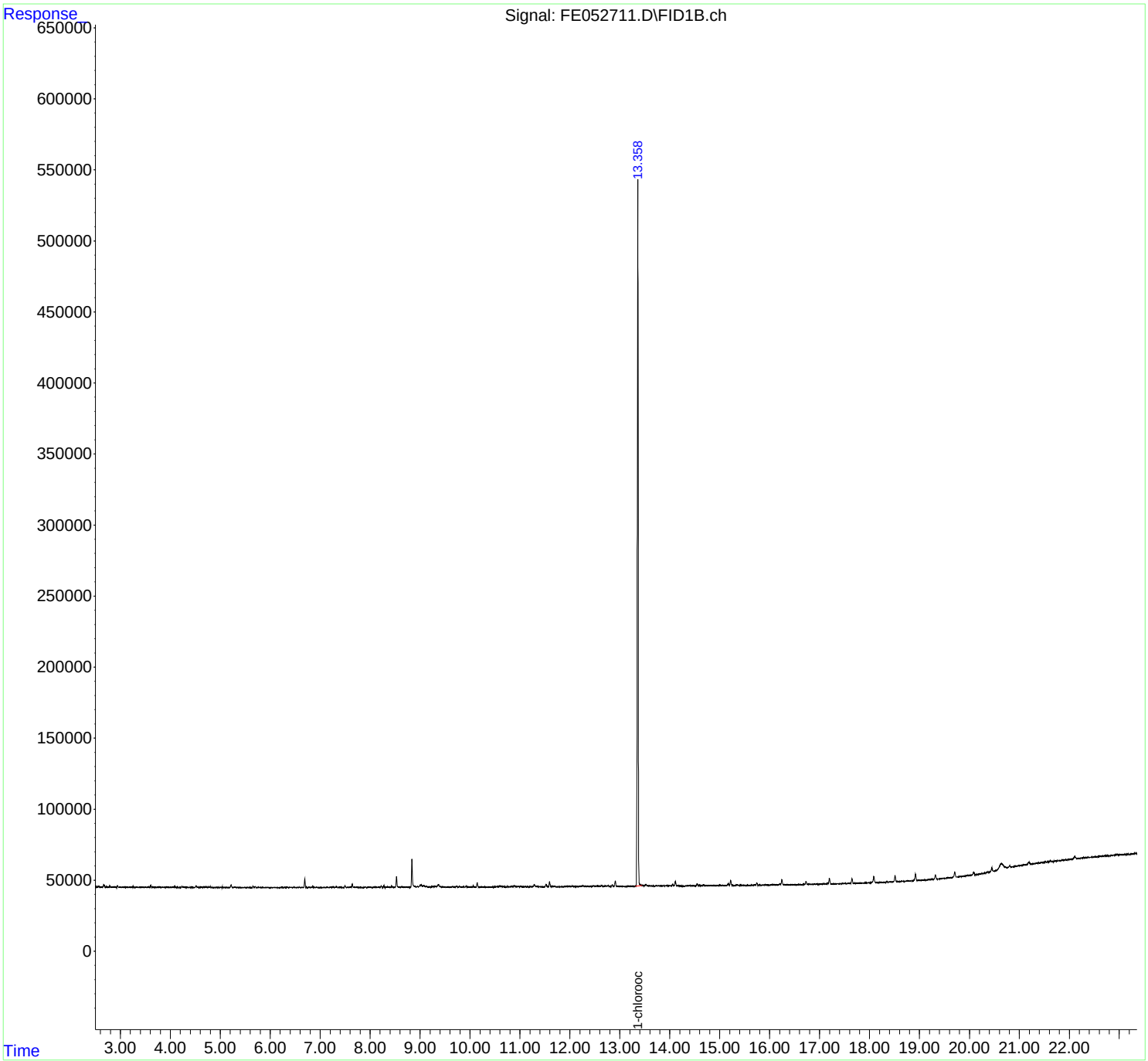
(f)=RT Delta > 1/2 Window (m)=manual int.

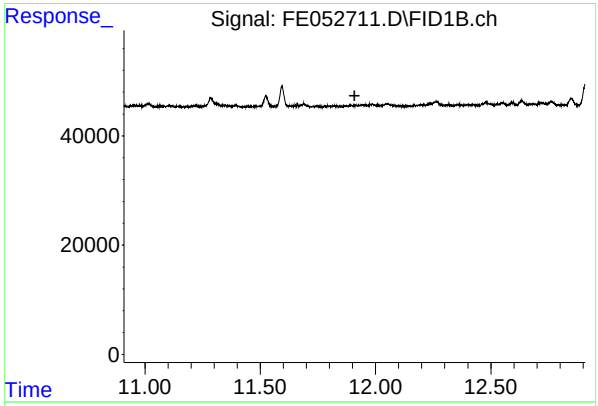
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052711.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:32
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:23:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

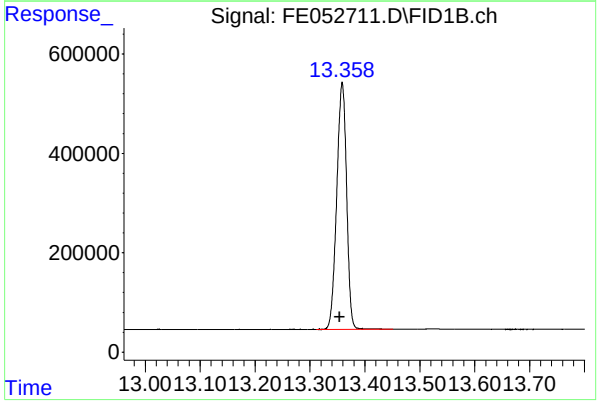




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.359 min
Delta R.T.: 0.005 min
Response: 6193125
Conc: 51.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052711.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:32
Sample : Q1488-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.530	8.498	8.591	BB	7534	90443	1.46%	1.388%
2	8.838	8.808	8.908	BB	19848	234513	3.79%	3.598%
3	13.359	13.311	13.451	BB	495043	6193125	100.00%	95.015%
			Sum of corrected areas:			6518082		

Aliphatic EPH 030325.M Tue Mar 11 06:19:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015632.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 18:15
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:23:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	5453196	46.843 ug/ml
Spiked Amount 50.000		Recovery =	93.69%
6) S 2-Flurobiphenyl (SURR)	8.876	3207625	45.031 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	90.06%
11) S ortho-Terphenyl (SURR)	11.935	5056753	34.375 ug/ml
Spiked Amount 50.000		Recovery =	68.75%
Target Compounds			

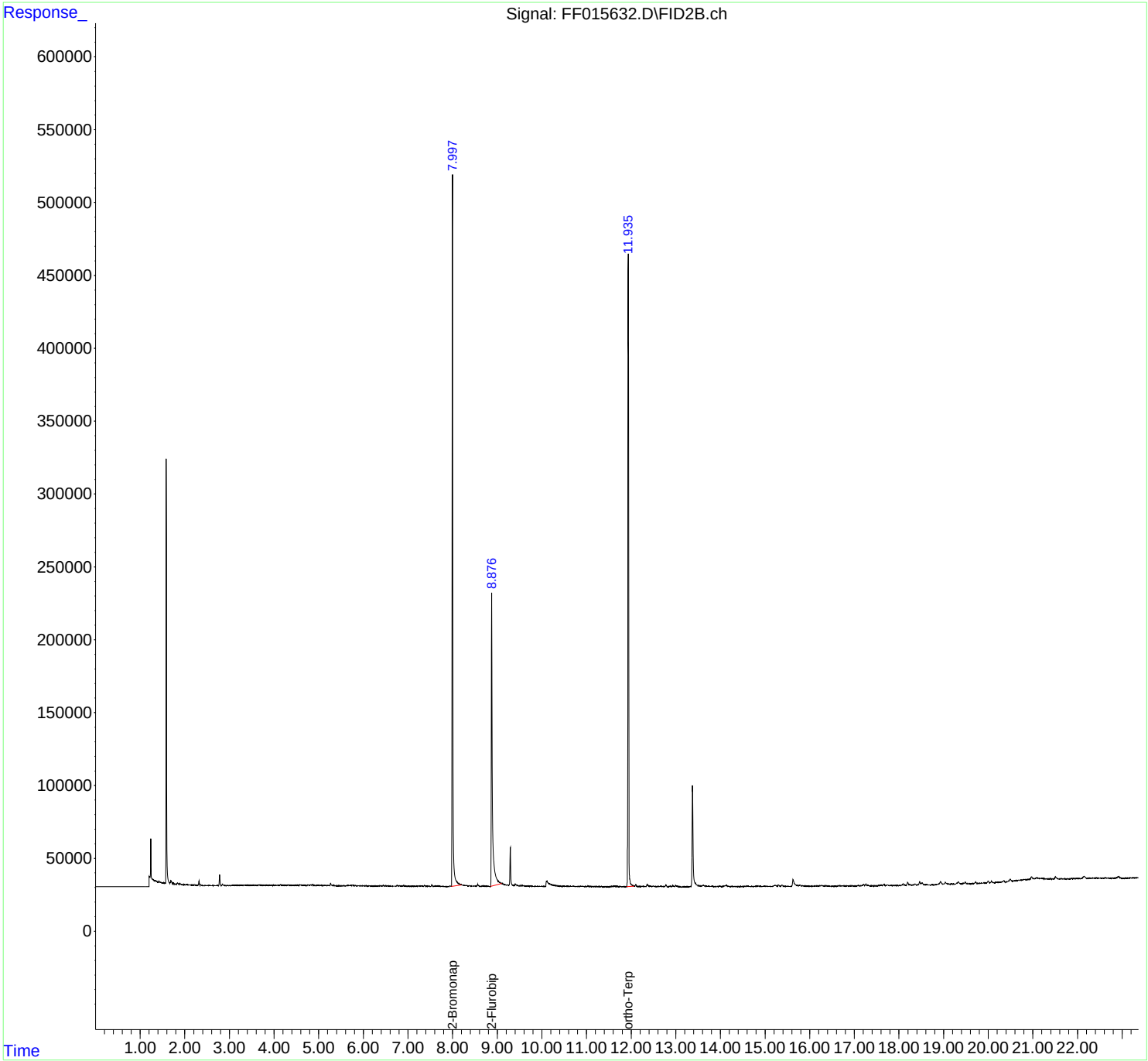
(f)=RT Delta > 1/2 Window (m)=manual int.

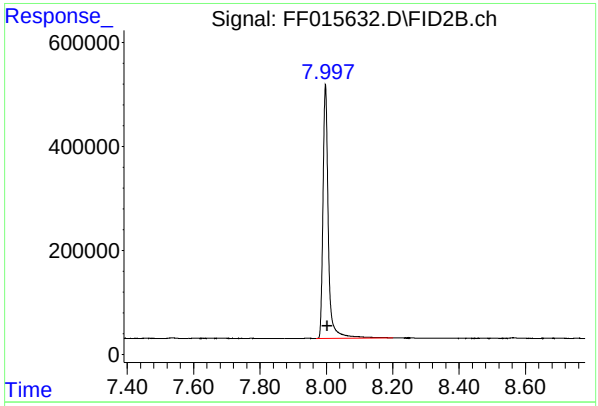
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015632.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 18:15
Operator : YP\AJ
Sample : Q1488-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:23:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

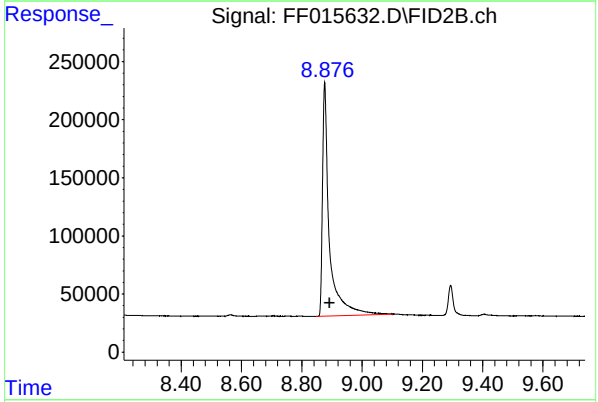




#4 2-Bromonaphthalene (SURR)

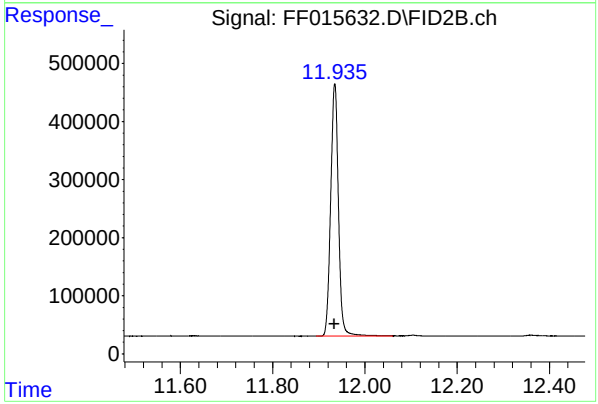
R.T.: 7.997 min
Delta R.T.: -0.006 min
Response: 5453196
Conc: 46.84 ug/ml

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.876 min
Delta R.T.: -0.016 min
Response: 3207625
Conc: 45.03 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.935 min
Delta R.T.: 0.001 min
Response: 5056753
Conc: 34.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015632.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 18:15
Sample : Q1488-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	7.997	7.969	8.201	BB	488443	5453196	100.00%	35.656%
2	8.876	8.847	9.102	BB	201088	3207625	58.82%	20.973%
3	9.294	9.236	9.362	BB	26036	295853	5.43%	1.934%
4	10.108	10.079	10.166	BB	3237	78324	1.44%	0.512%
5	11.935	11.894	12.061	BB	434843	5056753	92.73%	33.064%
6	13.372	13.321	13.517	BB	69263	1088897	19.97%	7.120%
7	15.625	15.574	15.716	BB	4442	113223	2.08%	0.740%
			Sum of corrected areas:			15293869		

Aromatic EPH 022625.M Tue Mar 11 04:29:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052715.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:32
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.357	4181776	34.439 ug/ml
Spiked Amount 50.000		Recovery = 68.88%	
Target Compounds			

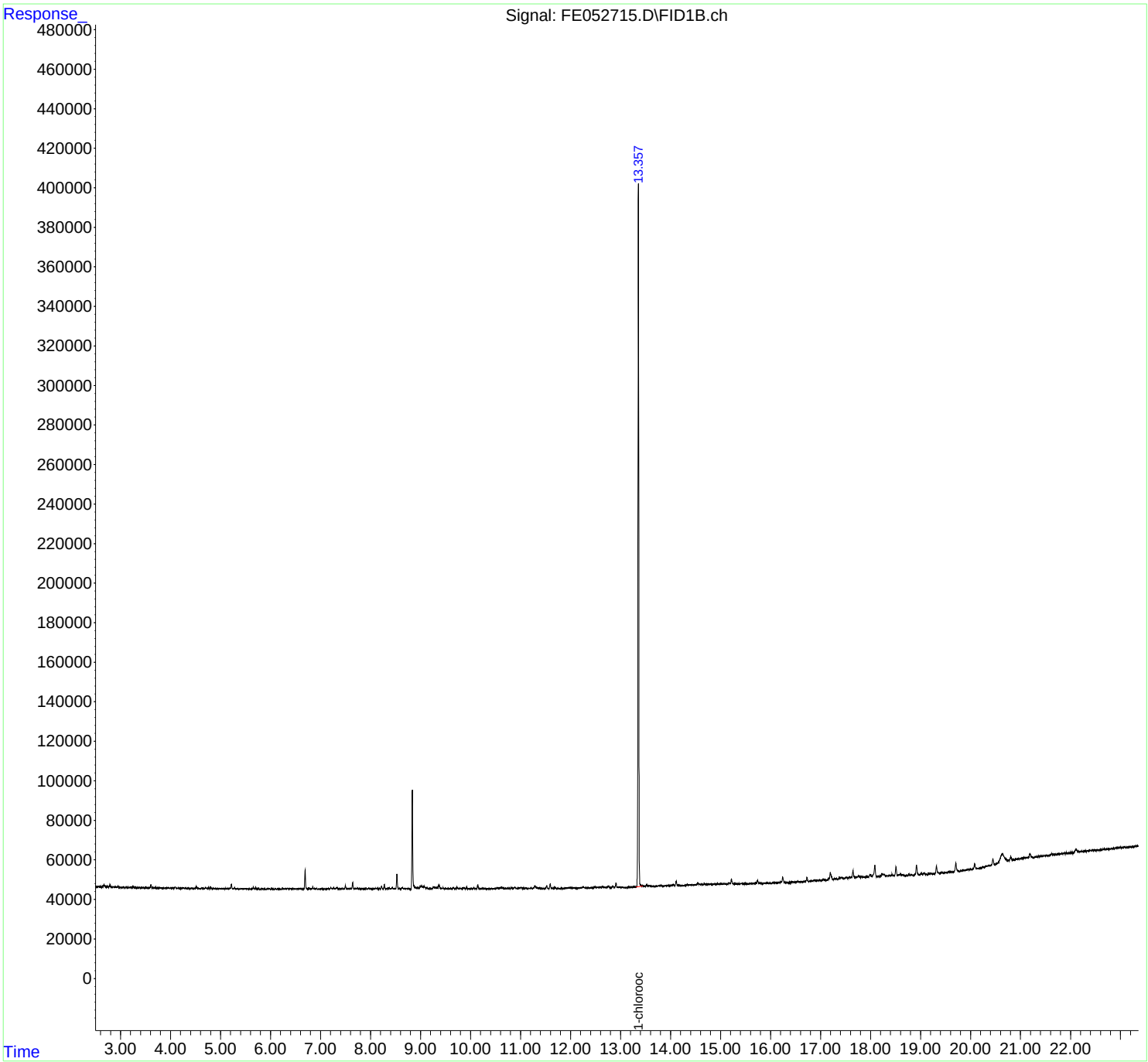
(f)=RT Delta > 1/2 Window (m)=manual int.

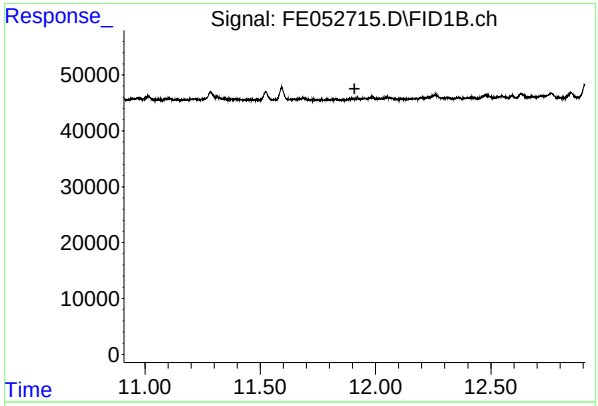
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052715.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:32
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

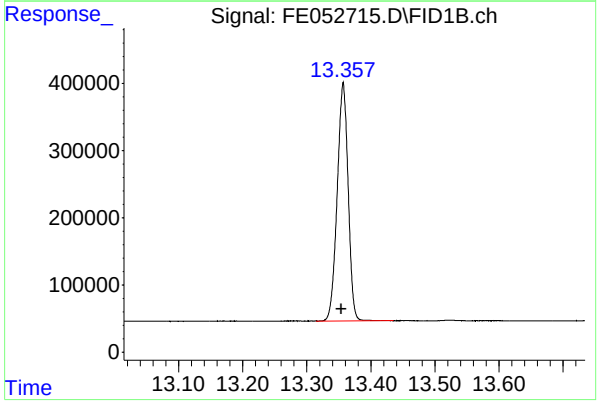




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-101-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.357 min
Delta R.T.: 0.003 min
Response: 4181776
Conc: 34.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052715.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:32
Sample : Q1488-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.944	2.888	3.002	BV	566	6076	0.14%	0.061%
2	3.015	3.002	3.028	PV	64	616	0.01%	0.006%
3	3.101	3.028	3.114	VV	142	3271	0.08%	0.033%
4	3.140	3.114	3.207	VV	106	3282	0.08%	0.033%
5	3.251	3.207	3.272	VV	482	5886	0.14%	0.059%
6	3.281	3.272	3.291	VV	76	818	0.02%	0.008%
7	3.296	3.291	3.345	VV	134	1915	0.05%	0.019%
8	3.405	3.345	3.431	PV	143	3954	0.09%	0.040%
9	3.450	3.431	3.480	VV	166	2965	0.07%	0.030%
10	3.489	3.480	3.505	VV	137	1461	0.03%	0.015%
11	3.510	3.505	3.558	VV	111	2440	0.06%	0.024%
12	3.606	3.558	3.631	VV	1753	20706	0.49%	0.207%
13	3.639	3.631	3.679	VV	190	3046	0.07%	0.031%
14	3.699	3.679	3.752	VV	192	3883	0.09%	0.039%
15	3.762	3.752	3.811	VV	93	2190	0.05%	0.022%
16	3.819	3.811	3.828	VV	107	726	0.02%	0.007%
17	3.841	3.828	3.881	VV	147	2613	0.06%	0.026%
18	3.887	3.881	3.921	VV	113	1523	0.04%	0.015%
19	3.937	3.921	3.987	VV	149	2797	0.07%	0.028%
20	3.999	3.987	4.023	VV	88	1187	0.03%	0.012%
21	4.049	4.023	4.066	PV	299	3493	0.08%	0.035%
22	4.088	4.066	4.145	VV	710	11092	0.26%	0.111%
23	4.159	4.145	4.214	VV	157	3049	0.07%	0.031%
24	4.254	4.214	4.291	VV	438	8521	0.20%	0.085%
25	4.312	4.291	4.359	VV	101	3068	0.07%	0.031%
26	4.367	4.359	4.377	VV	66	532	0.01%	0.005%
27	4.389	4.377	4.491	PV	68	4856	0.12%	0.049%
28	4.513	4.491	4.603	VV	1013	18268	0.43%	0.183%
29	4.637	4.603	4.672	VV	286	4276	0.10%	0.043%
30	4.701	4.672	4.725	PV	691	8241	0.20%	0.083%
31	4.737	4.725	4.746	VV	191	2206	0.05%	0.022%
32	4.763	4.746	4.780	VV	659	7349	0.17%	0.074%
33	4.797	4.780	4.838	VV	984	11560	0.27%	0.116%
34	4.846	4.838	4.895	VV	96	2437	0.06%	0.024%
35	4.899	4.895	4.908	VV	172	924	0.02%	0.009%
36	4.925	4.908	5.008	VV	249	7448	0.18%	0.075%

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37	5.016	5.008	5.067	VV	132	2797	0.07%	0.028%
38	5.076	5.067	5.109	VV	91	1765	0.04%	0.018%
39	5.129	5.109	5.156	VV	200	3103	0.07%	0.031%
40	5.216	5.156	5.249	VV	2451	36147	0.86%	0.362%
41	5.278	5.249	5.324	VV	522	8693	0.21%	0.087%
42	5.333	5.324	5.359	VV	163	1819	0.04%	0.018%
43	5.429	5.359	5.439	PV	217	4218	0.10%	0.042%
44	5.445	5.439	5.451	VV	141	891	0.02%	0.009%
45	5.459	5.451	5.531	VV	202	4728	0.11%	0.047%
46	5.539	5.531	5.581	VV	125	2049	0.05%	0.021%
47	5.599	5.581	5.607	VV	100	978	0.02%	0.010%
48	5.619	5.607	5.632	VV	139	1431	0.03%	0.014%
49	5.656	5.632	5.678	VV	804	10282	0.24%	0.103%
50	5.699	5.678	5.728	VV	943	11248	0.27%	0.113%
51	5.761	5.728	5.797	PV	239	4179	0.10%	0.042%
52	5.839	5.797	5.895	VV	250	7403	0.18%	0.074%
53	5.970	5.895	5.988	VV	231	5616	0.13%	0.056%
54	6.002	5.988	6.014	PV	97	1122	0.03%	0.011%
55	6.025	6.014	6.107	VV	145	3779	0.09%	0.038%
56	6.136	6.107	6.160	VV	135	1632	0.04%	0.016%
57	6.185	6.160	6.209	VV	95	1862	0.04%	0.019%
58	6.233	6.209	6.271	VV	282	6113	0.15%	0.061%
59	6.290	6.271	6.318	VV	342	4495	0.11%	0.045%
60	6.336	6.318	6.375	VV	598	8266	0.20%	0.083%
61	6.400	6.375	6.440	VV	376	6438	0.15%	0.064%
62	6.472	6.440	6.502	VV	278	6700	0.16%	0.067%
63	6.512	6.502	6.548	VV	177	3789	0.09%	0.038%
64	6.578	6.548	6.594	VV	239	4891	0.12%	0.049%
65	6.613	6.594	6.627	VV	142	2428	0.06%	0.024%
66	6.655	6.627	6.663	VV	173	2813	0.07%	0.028%
67	6.692	6.663	6.758	VV	9767	109645	2.60%	1.098%
68	6.777	6.758	6.800	VV	464	6392	0.15%	0.064%
69	6.815	6.800	6.827	VV	306	3275	0.08%	0.033%
70	6.846	6.827	6.868	VV	953	12365	0.29%	0.124%
71	6.882	6.868	6.903	VV	411	4919	0.12%	0.049%
72	6.921	6.903	6.961	VV	426	5968	0.14%	0.060%
73	6.975	6.961	6.997	VV	156	1568	0.04%	0.016%
74	7.021	6.997	7.054	VV	184	3397	0.08%	0.034%
75	7.071	7.054	7.081	VV	149	1830	0.04%	0.018%
76	7.089	7.081	7.119	VV	143	2047	0.05%	0.021%
77	7.149	7.119	7.181	VV	452	6873	0.16%	0.069%
78	7.203	7.181	7.240	VV	708	14827	0.35%	0.149%
79	7.268	7.240	7.293	VV	599	12851	0.30%	0.129%
80	7.331	7.293	7.355	VV	876	18610	0.44%	0.186%
81	7.372	7.355	7.395	VV	469	5459	0.13%	0.055%
82	7.416	7.395	7.473	VV	476	10376	0.25%	0.104%
83	7.498	7.473	7.531	VV	1800	22662	0.54%	0.227%
84	7.580	7.531	7.598	VV	360	11498	0.27%	0.115%
85	7.607	7.598	7.620	VV	483	5271	0.13%	0.053%
86	7.643	7.620	7.668	VV	3479	41628	0.99%	0.417%
87	7.678	7.668	7.690	VV	310	3472	0.08%	0.035%
88	7.707	7.690	7.720	VV	374	5223	0.12%	0.052%
89	7.735	7.720	7.758	VV	540	7050	0.17%	0.071%

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90	7.767	7.758	7.778	VV	247	2445	0.06%	0.024%
91	7.816	7.778	7.840	VV	360	8011	0.19%	0.080%
92	7.860	7.840	7.878	VV	226	2662	0.06%	0.027%
93	7.908	7.878	7.930	PV	882	10712	0.25%	0.107%
94	7.961	7.930	8.002	VV	596	13161	0.31%	0.132%
95	8.011	8.002	8.042	VV	303	3921	0.09%	0.039%
96	8.077	8.042	8.089	VV	325	5576	0.13%	0.056%
97	8.106	8.089	8.121	VV	464	6267	0.15%	0.063%
98	8.131	8.121	8.158	VV	505	6342	0.15%	0.064%
99	8.175	8.158	8.197	VV	535	7279	0.17%	0.073%
100	8.221	8.197	8.245	VV	1573	19701	0.47%	0.197%
101	8.277	8.245	8.301	VV	2416	28311	0.67%	0.284%
102	8.317	8.301	8.331	VV	267	3291	0.08%	0.033%
103	8.346	8.331	8.363	VV	592	7189	0.17%	0.072%
104	8.377	8.363	8.405	VV	531	7357	0.17%	0.074%
105	8.434	8.405	8.492	VV	1039	21395	0.51%	0.214%
106	8.529	8.492	8.608	VV	7666	99720	2.37%	0.999%
107	8.628	8.608	8.665	VV	633	15157	0.36%	0.152%
108	8.681	8.665	8.701	VV	425	6757	0.16%	0.068%
109	8.724	8.701	8.742	VV	380	5567	0.13%	0.056%
110	8.767	8.742	8.800	VV	409	5966	0.14%	0.060%
111	8.836	8.800	8.931	VV	50202	581081	13.79%	5.820%
112	8.952	8.931	8.971	VV	759	15822	0.38%	0.158%
113	9.020	8.971	9.054	VV	1619	57391	1.36%	0.575%
114	9.071	9.054	9.117	VV	1545	35205	0.84%	0.353%
115	9.134	9.117	9.175	VV	601	13462	0.32%	0.135%
116	9.190	9.175	9.211	VV	490	7306	0.17%	0.073%
117	9.261	9.211	9.281	VV	1072	24320	0.58%	0.244%
118	9.295	9.281	9.310	VV	883	12981	0.31%	0.130%
119	9.320	9.310	9.341	VV	665	11782	0.28%	0.118%
120	9.370	9.341	9.428	VV	1777	47216	1.12%	0.473%
121	9.447	9.428	9.474	VV	642	9435	0.22%	0.094%
122	9.495	9.474	9.527	VV	359	7078	0.17%	0.071%
123	9.551	9.527	9.565	VV	336	5769	0.14%	0.058%
124	9.575	9.565	9.588	VV	351	3948	0.09%	0.040%
125	9.601	9.588	9.613	VV	374	4153	0.10%	0.042%
126	9.618	9.613	9.628	VV	291	2135	0.05%	0.021%
127	9.663	9.628	9.700	VV	572	13875	0.33%	0.139%
128	9.729	9.700	9.766	VV	940	17421	0.41%	0.174%
129	9.782	9.766	9.813	VV	414	7895	0.19%	0.079%
130	9.827	9.813	9.839	VV	281	3813	0.09%	0.038%
131	9.868	9.839	9.899	VV	586	11022	0.26%	0.110%
132	9.921	9.899	9.958	VV	1198	15558	0.37%	0.156%
133	9.972	9.958	9.993	VV	170	2452	0.06%	0.025%
134	10.012	9.993	10.040	VV	288	3824	0.09%	0.038%
135	10.063	10.040	10.117	VV	602	11797	0.28%	0.118%
136	10.144	10.117	10.198	VV	2115	29516	0.70%	0.296%
137	10.238	10.198	10.304	VV	327	11833	0.28%	0.119%
138	10.316	10.304	10.338	VV	159	2100	0.05%	0.021%
139	10.354	10.338	10.381	PV	116	1405	0.03%	0.014%
140	10.425	10.381	10.439	VV	226	3707	0.09%	0.037%
141	10.466	10.439	10.481	VV	282	4733	0.11%	0.047%

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142	10.536	10.481	10.559	VV	610	15071	0.36%	0.151%
143	10.588	10.559	10.668	VV	733	32868	0.78%	0.329%
144	10.678	10.668	10.718	VV	352	7551	0.18%	0.076%
145	10.745	10.718	10.765	VV	355	7777	0.18%	0.078%
146	10.774	10.765	10.796	VV	354	5991	0.14%	0.060%
147	10.816	10.796	10.851	VV	598	12350	0.29%	0.124%
148	10.887	10.851	10.919	VV	893	19398	0.46%	0.194%
149	10.944	10.919	10.990	VV	449	14941	0.35%	0.150%
150	11.013	10.990	11.050	VV	795	16023	0.38%	0.160%
151	11.060	11.050	11.071	VV	265	2779	0.07%	0.028%
152	11.106	11.071	11.125	VV	446	9276	0.22%	0.093%
153	11.143	11.125	11.159	VV	257	3927	0.09%	0.039%
154	11.168	11.159	11.189	VV	186	2867	0.07%	0.029%
155	11.218	11.189	11.238	VV	322	7022	0.17%	0.070%
156	11.285	11.238	11.372	VV	1628	43704	1.04%	0.438%
157	11.394	11.372	11.428	VV	294	6215	0.15%	0.062%
158	11.458	11.428	11.473	VV	201	3281	0.08%	0.033%
159	11.524	11.473	11.555	VV	1572	23578	0.56%	0.236%
160	11.593	11.555	11.628	VV	2308	32134	0.76%	0.322%
161	11.686	11.628	11.728	VV	454	12157	0.29%	0.122%
162	11.749	11.728	11.759	VV	127	1417	0.03%	0.014%
163	11.825	11.759	11.865	PV	180	4676	0.11%	0.047%
164	11.902	11.865	11.915	PV	225	4950	0.12%	0.050%
165	11.921	11.915	11.961	VV	286	6696	0.16%	0.067%
166	11.981	11.961	12.022	VV	399	10081	0.24%	0.101%
167	12.051	12.022	12.134	VV	370	11341	0.27%	0.114%
168	12.199	12.134	12.214	VV	314	7988	0.19%	0.080%
169	12.261	12.214	12.298	VV	787	20677	0.49%	0.207%
170	12.309	12.298	12.335	VV	323	4692	0.11%	0.047%
171	12.358	12.335	12.376	VV	239	3992	0.09%	0.040%
172	12.423	12.376	12.442	VV	280	6578	0.16%	0.066%
173	12.480	12.442	12.518	VV	619	16302	0.39%	0.163%
174	12.550	12.518	12.573	VV	526	9973	0.24%	0.100%
175	12.593	12.573	12.611	VV	543	7436	0.18%	0.074%
176	12.632	12.611	12.662	VV	832	14750	0.35%	0.148%
177	12.678	12.662	12.697	VV	341	5366	0.13%	0.054%
178	12.717	12.697	12.731	VV	408	6868	0.16%	0.069%
179	12.762	12.731	12.816	VV	883	18831	0.45%	0.189%
180	12.847	12.816	12.876	VV	1009	14761	0.35%	0.148%
181	12.908	12.876	12.963	VV	2372	35545	0.84%	0.356%
182	12.977	12.963	13.002	VV	284	4526	0.11%	0.045%
183	13.030	13.002	13.103	VV	199	5935	0.14%	0.059%
184	13.169	13.103	13.225	PV	295	9925	0.24%	0.099%
185	13.235	13.225	13.246	VV	155	1510	0.04%	0.015%
186	13.280	13.246	13.300	VV	262	6030	0.14%	0.060%
187	13.357	13.300	13.441	VV	353626	4214158	100.00%	42.208%
188	13.456	13.441	13.485	VV	671	14818	0.35%	0.148%
189	13.523	13.485	13.555	VV	1350	29972	0.71%	0.300%
190	13.580	13.555	13.627	VV	522	18852	0.45%	0.189%
191	13.637	13.627	13.674	VV	349	7160	0.17%	0.072%
192	13.754	13.674	13.768	VV	467	17613	0.42%	0.176%
193	13.794	13.768	13.836	VV	619	18183	0.43%	0.182%
194	13.864	13.836	13.894	VV	340	9222	0.22%	0.092%

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195	13.962	13.894	14.000	VV	512	22036	0.52%	0.221%
196	14.058	14.000	14.081	VV	1074	25837	0.61%	0.259%
197	14.112	14.081	14.151	VV	2534	41871	0.99%	0.419%
198	14.166	14.151	14.195	VV	453	8915	0.21%	0.089%
199	14.203	14.195	14.215	VV	294	2838	0.07%	0.028%
200	14.223	14.215	14.248	VV	208	3909	0.09%	0.039%
201	14.262	14.248	14.271	VV	204	2550	0.06%	0.026%
202	14.334	14.271	14.368	VV	552	19061	0.45%	0.191%
203	14.380	14.368	14.395	VV	378	5143	0.12%	0.052%
204	14.411	14.395	14.455	VV	396	11583	0.27%	0.116%
205	14.473	14.455	14.487	VV	356	5847	0.14%	0.059%
206	14.499	14.487	14.511	VV	359	4585	0.11%	0.046%
207	14.550	14.511	14.596	VV	1484	35964	0.85%	0.360%
208	14.623	14.596	14.635	VV	531	10742	0.25%	0.108%
209	14.676	14.635	14.717	VV	1016	26873	0.64%	0.269%
210	14.738	14.717	14.749	VV	620	9628	0.23%	0.096%
211	14.755	14.749	14.765	VV	540	4796	0.11%	0.048%
212	14.777	14.765	14.852	VV	519	21663	0.51%	0.217%
213	14.885	14.852	14.908	VV	481	13828	0.33%	0.139%
214	14.931	14.908	14.968	VV	588	17559	0.42%	0.176%
215	14.995	14.968	15.018	VV	661	14323	0.34%	0.143%
216	15.030	15.018	15.041	VV	525	6004	0.14%	0.060%
217	15.071	15.041	15.128	VV	536	19761	0.47%	0.198%
218	15.174	15.128	15.193	VV	929	21974	0.52%	0.220%
219	15.218	15.193	15.252	VV	2678	43415	1.03%	0.435%
220	15.268	15.252	15.322	VV	414	11569	0.27%	0.116%
221	15.361	15.322	15.388	VV	300	7297	0.17%	0.073%
222	15.417	15.388	15.441	VV	294	7384	0.18%	0.074%
223	15.455	15.441	15.508	VV	253	7073	0.17%	0.071%
224	15.530	15.508	15.574	VV	260	6332	0.15%	0.063%
225	15.605	15.574	15.614	VV	197	3664	0.09%	0.037%
226	15.658	15.614	15.670	VV	217	6371	0.15%	0.064%
227	15.697	15.670	15.713	VV	249	5313	0.13%	0.053%
228	15.739	15.713	15.818	VV	1612	30924	0.73%	0.310%
229	15.828	15.818	15.853	VV	186	2318	0.06%	0.023%
230	15.916	15.853	15.940	VV	267	7976	0.19%	0.080%
231	15.960	15.940	15.981	VV	241	3778	0.09%	0.038%
232	15.992	15.981	16.015	VV	172	2162	0.05%	0.022%
233	16.058	16.015	16.095	VV	359	9624	0.23%	0.096%
234	16.106	16.095	16.142	VV	221	4874	0.12%	0.049%
235	16.148	16.142	16.174	VV	152	2022	0.05%	0.020%
236	16.203	16.174	16.216	VV	654	8833	0.21%	0.088%
237	16.242	16.216	16.329	VV	3040	51099	1.21%	0.512%
238	16.345	16.329	16.360	VV	119	1502	0.04%	0.015%
239	16.384	16.360	16.393	PV	102	1593	0.04%	0.016%
240	16.450	16.393	16.466	VV	329	8653	0.21%	0.087%
241	16.479	16.466	16.486	VV	125	1276	0.03%	0.013%
242	16.493	16.486	16.510	VV	143	1147	0.03%	0.011%
243	16.551	16.510	16.570	VV	332	8249	0.20%	0.083%
244	16.587	16.570	16.621	VV	188	4242	0.10%	0.042%
245	16.728	16.621	16.758	VV	2260	36007	0.85%	0.361%
246	16.769	16.758	16.788	PV	121	1660	0.04%	0.017%

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247	16.889	16.788	16.915	VV	415	20018	0.48%	0.200%
248	16.996	16.915	17.013	VV	385	16294	0.39%	0.163%
249	17.058	17.013	17.096	VV	543	18684	0.44%	0.187%
250	17.121	17.096	17.133	VV	243	4823	0.11%	0.048%
251	17.194	17.133	17.257	VV	3914	99438	2.36%	0.996%
252	17.322	17.257	17.345	VV	587	26244	0.62%	0.263%
253	17.380	17.345	17.391	VV	986	19383	0.46%	0.194%
254	17.433	17.391	17.465	VV	1115	39202	0.93%	0.393%
255	17.512	17.465	17.548	VV	1038	35874	0.85%	0.359%
256	17.583	17.548	17.604	VV	1135	27747	0.66%	0.278%
257	17.648	17.604	17.700	VV	4143	93782	2.23%	0.939%
258	17.716	17.700	17.731	VV	948	14953	0.35%	0.150%
259	17.762	17.731	17.795	VV	1246	35870	0.85%	0.359%
260	17.820	17.795	17.832	VV	874	16291	0.39%	0.163%
261	17.846	17.832	17.888	VV	812	20611	0.49%	0.206%
262	17.932	17.888	17.954	VV	938	27974	0.66%	0.280%
263	17.986	17.954	18.023	VV	1564	40812	0.97%	0.409%
264	18.085	18.023	18.150	VV	6137	142359	3.38%	1.426%
265	18.231	18.150	18.305	VV	1727	87494	2.08%	0.876%
266	18.328	18.305	18.355	VV	719	15917	0.38%	0.159%
267	18.377	18.355	18.387	VV	638	10776	0.26%	0.108%
268	18.404	18.387	18.415	VV	759	11048	0.26%	0.111%
269	18.431	18.415	18.448	VV	847	13195	0.31%	0.132%
270	18.464	18.448	18.475	VV	549	8426	0.20%	0.084%
271	18.508	18.475	18.537	VV	4866	75628	1.79%	0.757%
272	18.596	18.537	18.625	VV	1086	33273	0.79%	0.333%
273	18.633	18.625	18.649	VV	683	7811	0.19%	0.078%
274	18.659	18.649	18.698	VV	458	7832	0.19%	0.078%
275	18.736	18.698	18.750	VV	288	6079	0.14%	0.061%
276	18.770	18.750	18.798	VV	435	8180	0.19%	0.082%
277	18.810	18.798	18.848	VV	286	5632	0.13%	0.056%
278	18.857	18.848	18.865	PV	141	814	0.02%	0.008%
279	18.919	18.865	18.958	VV	5114	83026	1.97%	0.832%
280	19.020	18.958	19.039	VV	707	12566	0.30%	0.126%
281	19.071	19.039	19.136	VV	708	15291	0.36%	0.153%
282	19.213	19.136	19.240	PV	326	13444	0.32%	0.135%
283	19.318	19.240	19.386	VV	3920	69655	1.65%	0.698%
284	19.423	19.386	19.457	PV	414	9051	0.21%	0.091%
285	19.568	19.457	19.585	VV	346	16432	0.39%	0.165%
286	19.611	19.585	19.640	VV	340	6606	0.16%	0.066%
287	19.705	19.640	19.785	VV	4471	81900	1.94%	0.820%
288	19.833	19.785	19.860	PV	364	8438	0.20%	0.085%
289	19.949	19.860	19.971	VV	395	13800	0.33%	0.138%
290	19.995	19.971	20.041	VV	305	7388	0.18%	0.074%
291	20.082	20.041	20.115	PV	2841	46241	1.10%	0.463%
292	20.135	20.115	20.165	VV	287	6311	0.15%	0.063%
293	20.363	20.165	20.377	PV	555	37934	0.90%	0.380%
294	20.447	20.377	20.481	VV	3584	78456	1.86%	0.786%
295	20.637	20.481	20.763	VV	5131	418342	9.93%	4.190%
296	20.805	20.763	20.845	VV	3020	95818	2.27%	0.960%
297	21.189	20.845	21.248	VV	3003	345681	8.20%	3.462%
298	21.419	21.248	21.445	VV	804	96719	2.30%	0.969%
299	21.516	21.445	21.541	VV	665	36233	0.86%	0.363%

rteres

300	21.622	21.541	21.654	VV	1016	43695	1.04%	0.438%
301	21.852	21.654	21.871	VV	218	41069	0.97%	0.411%

Sum of corrected areas: 9984324

Aliphatic EPH 030325.M Tue Mar 11 06:25:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015636.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:13
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-101-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:25:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.998	7403413	63.595 ug/ml
Spiked Amount 50.000		Recovery = 127.19%	
6) S 2-Flurobiphenyl (SURR)	8.875	4234903	59.453 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.91%	
11) S ortho-Terphenyl (SURR)	11.933	3899585	26.509 ug/ml
Spiked Amount 50.000		Recovery = 53.02%	
Target Compounds			

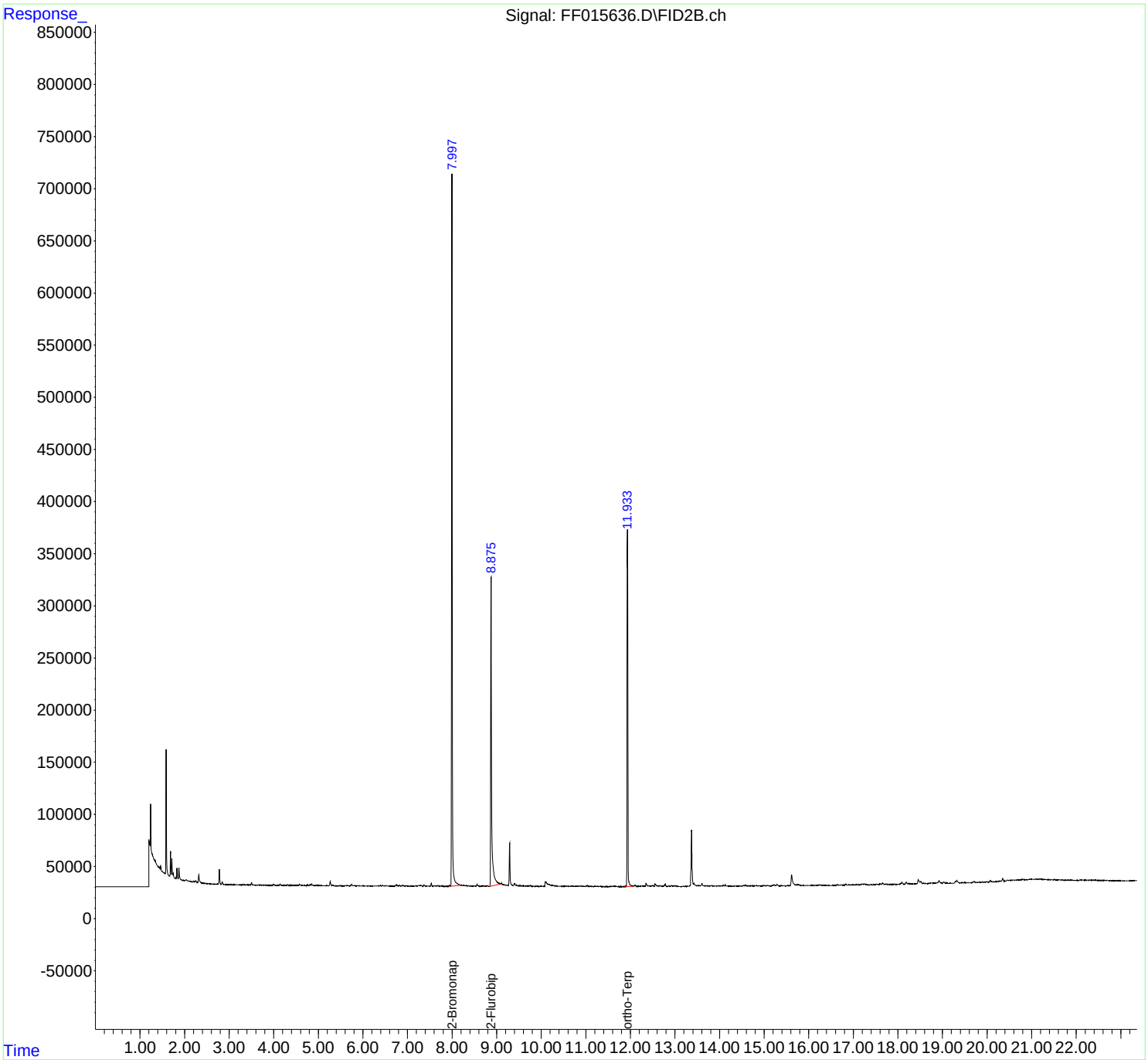
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015636.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:13
Operator : YP\AJ
Sample : Q1488-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

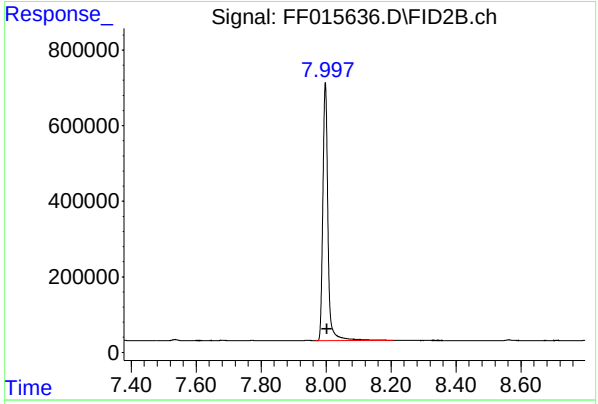
Instrument :
FID_F
ClientSampleId :
ENV-101-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:25:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

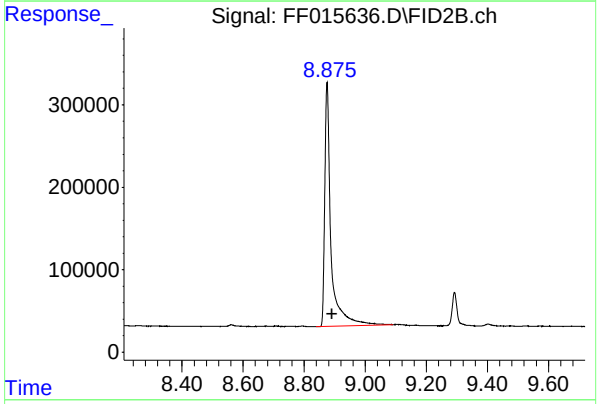


Instrument :
FID_F
ClientSampleId :
ENV-101-SB02



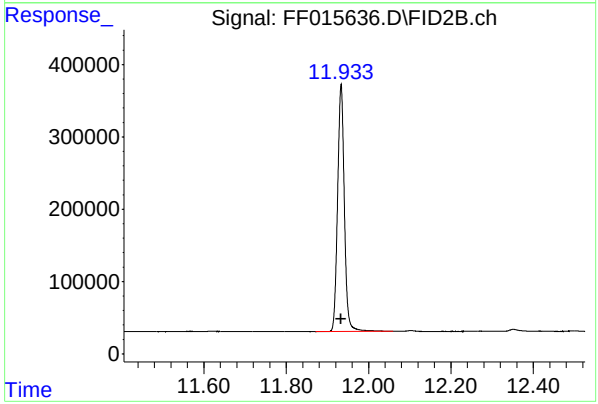
#4 2-Bromonaphthalene (SURR)

R.T.: 7.998 min
Delta R.T.: -0.005 min
Response: 7403413
Conc: 63.60 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.875 min
Delta R.T.: -0.017 min
Response: 4234903
Conc: 59.45 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 3899585
Conc: 26.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015636.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:13
Sample : Q1488-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	5.267	5.212	5.307	BV	4111	57913	0.78%	0.339%
2	7.998	7.969	8.206	PB	682361	7403413	100.00%	43.330%
3	8.875	8.839	9.091	BB	295584	4234903	57.20%	24.785%
4	9.292	9.231	9.376	BB	40508	455156	6.15%	2.664%
5	10.097	9.987	10.161	BB	3521	54708	0.74%	0.320%
6	11.933	11.872	12.059	BB	343918	3899585	52.67%	22.823%
7	13.370	13.311	13.472	BB	53387	765184	10.34%	4.478%
8	15.614	15.552	15.711	BB	9935	215391	2.91%	1.261%
			Sum of corrected areas:			17086252		

Aromatic EPH 022625.M Tue Mar 11 04:32:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052716.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:03
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-102-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:25:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.357	6034563	49.697 ug/ml
Spiked Amount 50.000		Recovery = 99.39%	
Target Compounds			

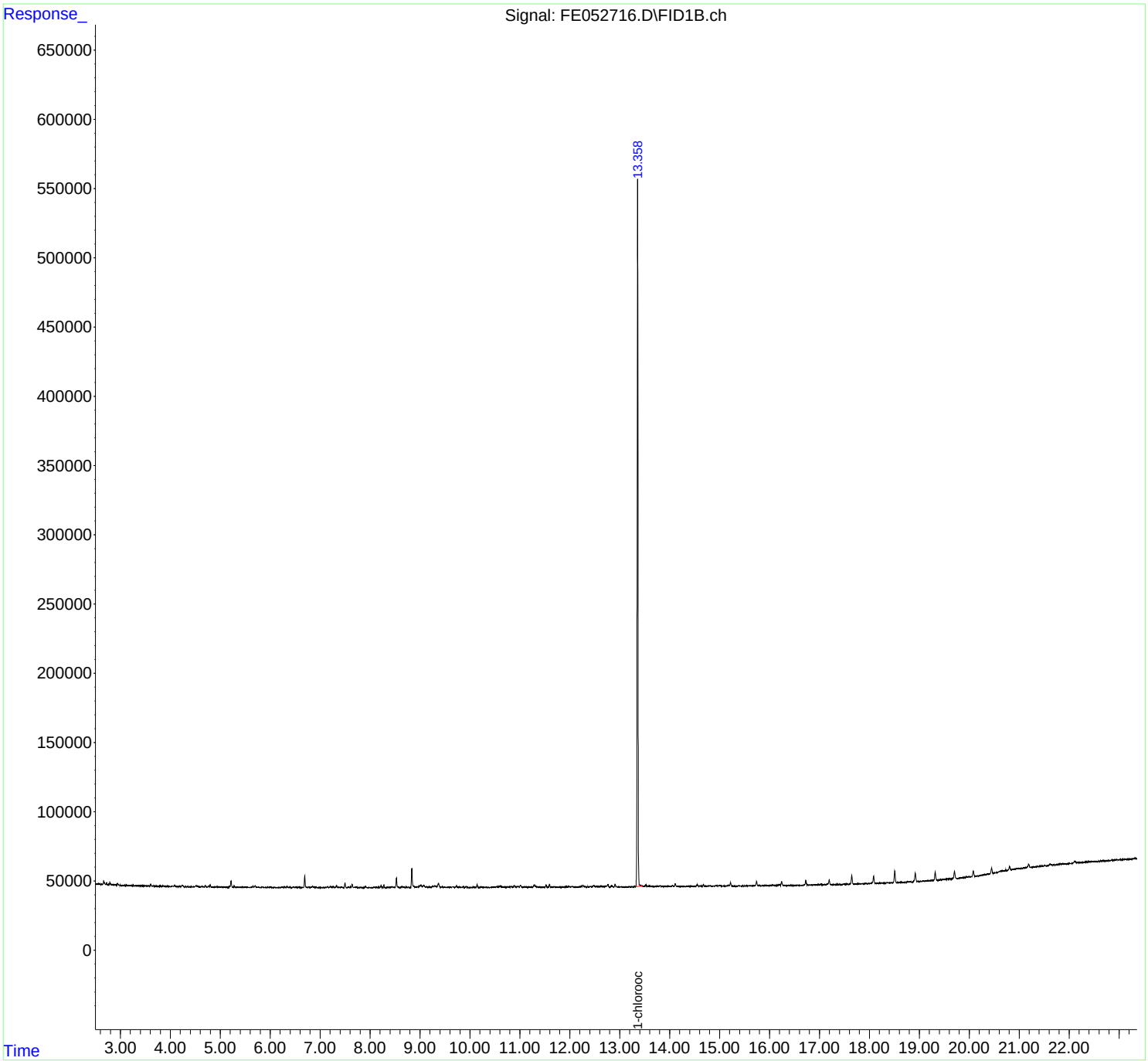
(f)=RT Delta > 1/2 Window (m)=manual int.

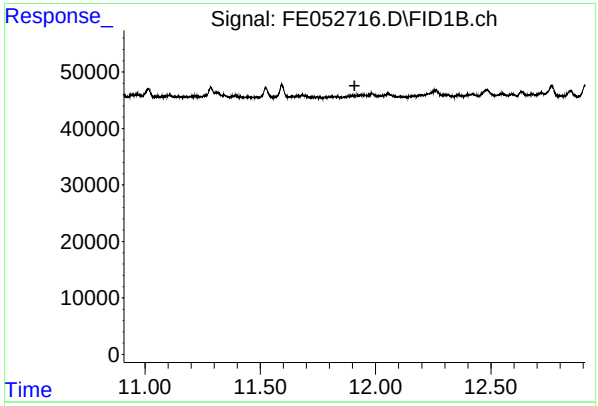
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052716.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:03
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-102-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:25:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

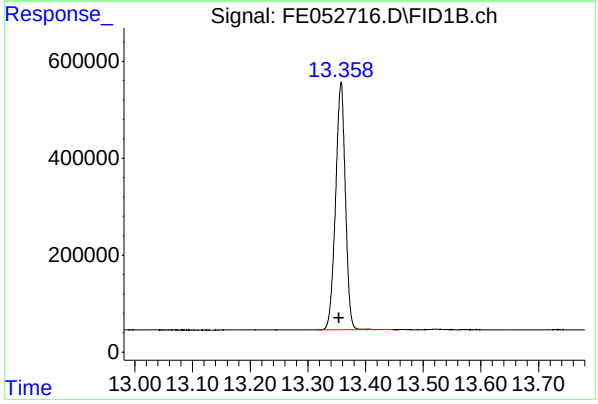




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-102-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.357 min
Delta R.T.: 0.003 min
Response: 6034563
Conc: 49.70 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052716.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:03
Sample : Q1488-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.692	6.664	6.754	BB	8353	88518	1.47%	1.362%
2	8.529	8.501	8.588	BB	6859	81227	1.35%	1.250%
3	8.838	8.798	8.904	BB	13914	172693	2.86%	2.657%
4	13.357	13.314	13.448	BB	510283	6034563	100.00%	92.835%
5	18.508	18.448	18.548	BB	8520	123278	2.04%	1.897%

Sum of corrected areas: 6500278

Aliphatic EPH 030325.M Tue Mar 11 06:25:55 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015637.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:42
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-102-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:25:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	6512903	55.946 ug/ml
Spiked Amount 50.000		Recovery = 111.89%	
6) S 2-Flurobiphenyl (SURR)	8.875	3908861	54.875 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 109.75%	
11) S ortho-Terphenyl (SURR)	11.935	6672885	45.362 ug/ml
Spiked Amount 50.000		Recovery = 90.72%	
Target Compounds			

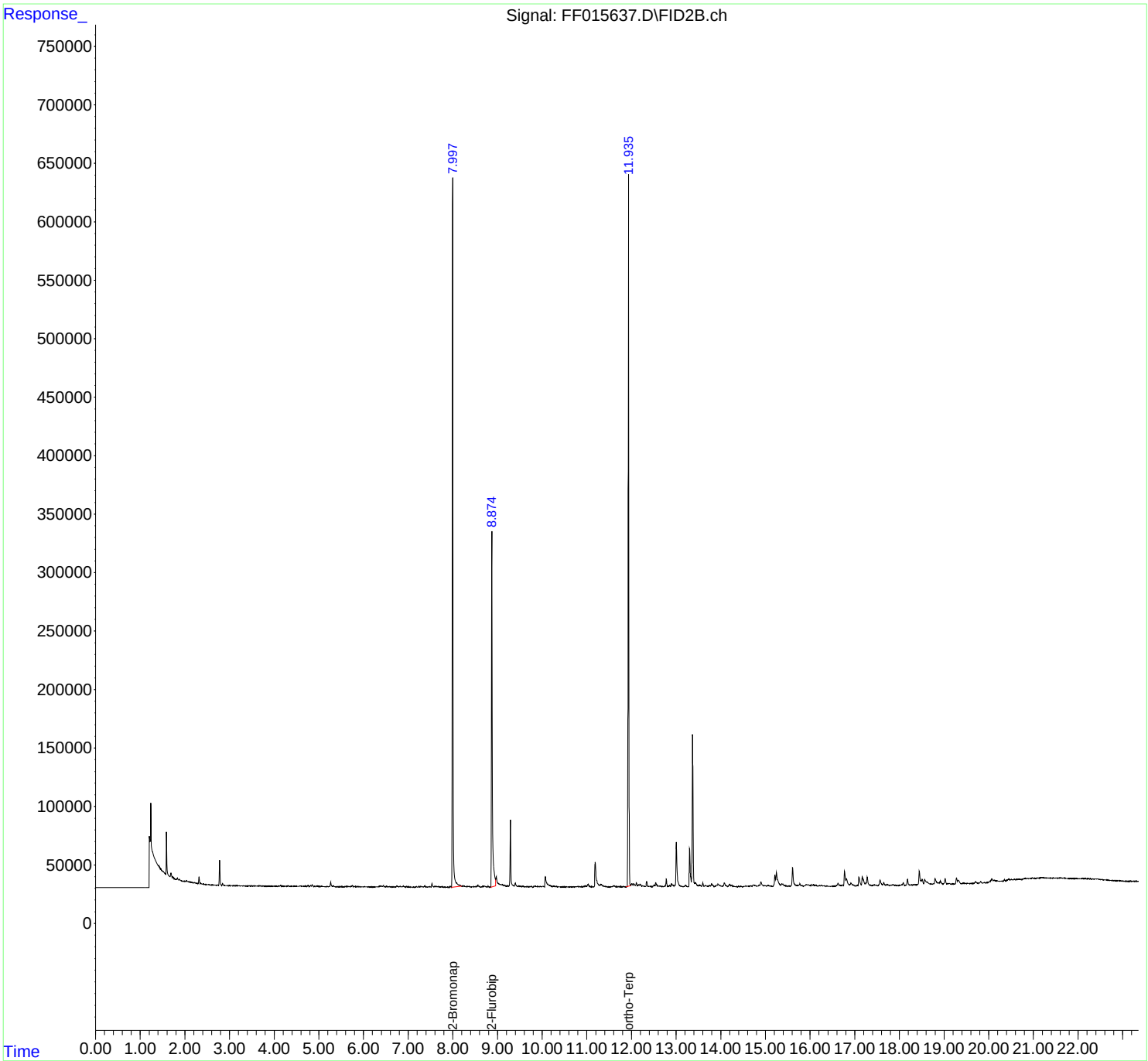
(f)=RT Delta > 1/2 Window (m)=manual int.

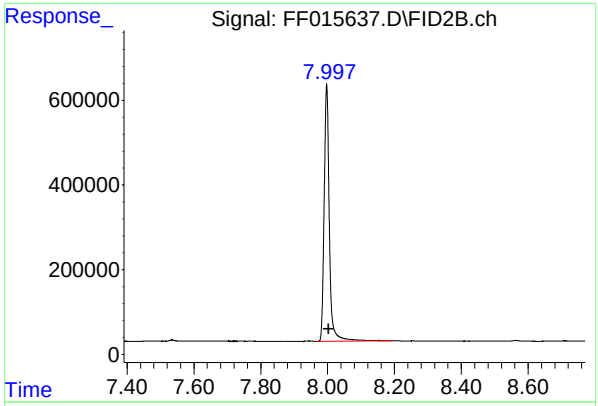
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015637.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:42
Operator : YP\AJ
Sample : Q1488-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-102-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:25:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

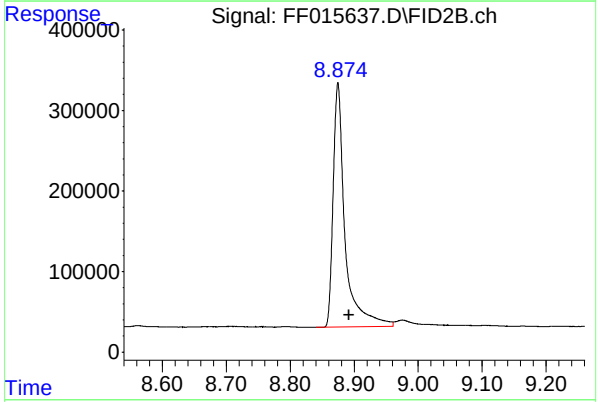




#4 2-Bromonaphthalene (SURR)

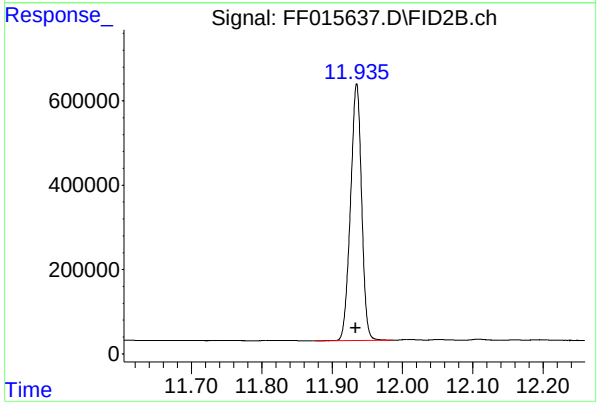
R.T.: 7.997 min
Delta R.T.: -0.006 min
Response: 6512903
Conc: 55.95 ug/ml

Instrument :
FID_F
ClientSampleId :
ENV-102-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.875 min
Delta R.T.: -0.017 min
Response: 3908861
Conc: 54.88 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.935 min
Delta R.T.: 0.001 min
Response: 6672885
Conc: 45.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015637.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 20:42
Sample : Q1488-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.455	4.400	4.480	BV	174	1692	0.03%	0.006%
2	4.537	4.523	4.552	PV	129	1459	0.02%	0.005%
3	4.580	4.552	4.629	PV	578	12709	0.19%	0.043%
4	4.639	4.629	4.668	VV	173	2078	0.03%	0.007%
5	4.695	4.668	4.735	VV	272	4143	0.06%	0.014%
6	4.756	4.735	4.787	VV	1305	17294	0.26%	0.059%
7	4.819	4.787	4.834	VV	930	12494	0.19%	0.043%
8	4.852	4.834	4.904	VV	1666	23604	0.35%	0.081%
9	4.943	4.904	4.961	VV	487	8639	0.13%	0.029%
10	4.979	4.961	5.042	VV	414	10115	0.15%	0.035%
11	5.060	5.042	5.079	VV	420	5060	0.08%	0.017%
12	5.094	5.089	5.119	VV	113	1392	0.02%	0.005%
13	5.123	5.119	5.159	VV	103	1412	0.02%	0.005%
14	5.178	5.159	5.214	VV	332	4905	0.07%	0.017%
15	5.266	5.214	5.311	PV	3993	58713	0.87%	0.200%
16	5.329	5.311	5.359	VV	877	11986	0.18%	0.041%
17	5.379	5.377	5.395	VV	145	1013	0.02%	0.003%
18	5.434	5.418	5.445	VV	109	1278	0.02%	0.004%
19	5.475	5.469	5.500	VV	208	2325	0.03%	0.008%
20	5.508	5.500	5.527	VV	123	1180	0.02%	0.004%
21	5.610	5.564	5.615	VV	343	5438	0.08%	0.019%
22	5.620	5.615	5.624	VV	331	1557	0.02%	0.005%
23	5.628	5.624	5.632	VV	355	1676	0.02%	0.006%
24	5.634	5.632	5.654	VV	364	3874	0.06%	0.013%
25	5.664	5.654	5.670	VV	376	2792	0.04%	0.010%
26	5.672	5.670	5.681	VV	346	1694	0.03%	0.006%
27	5.688	5.681	5.698	VV	285	2493	0.04%	0.009%
28	5.720	5.698	5.731	VV	444	6348	0.09%	0.022%
29	5.749	5.731	5.794	VV	1270	21164	0.31%	0.072%
30	5.806	5.794	5.841	VV	423	6979	0.10%	0.024%
31	5.848	5.841	5.879	VV	218	3394	0.05%	0.012%
32	5.894	5.879	5.902	VV	230	2589	0.04%	0.009%
33	5.907	5.902	5.925	VV	216	1935	0.03%	0.007%
34	5.967	5.947	6.003	VV	169	3165	0.05%	0.011%
35	6.013	6.003	6.030	VV	218	2422	0.04%	0.008%
36	6.033	6.030	6.055	VV	160	1426	0.02%	0.005%

rteres

37	6.060	6.055	6.107	VV	154	3086	0.05%	0.011%
38	6.128	6.121	6.155	PV	105	1329	0.02%	0.005%
39	6.202	6.191	6.223	VV	100	1024	0.02%	0.003%
40	6.238	6.223	6.269	VV	155	1918	0.03%	0.007%
41	6.291	6.280	6.306	VV	232	2624	0.04%	0.009%
42	6.309	6.306	6.318	VV	227	1258	0.02%	0.004%
43	6.386	6.318	6.423	VV	1065	38348	0.57%	0.131%
44	6.446	6.423	6.472	VV	1412	22922	0.34%	0.078%
45	6.477	6.472	6.481	VV	401	1988	0.03%	0.007%
46	6.485	6.481	6.490	VV	452	2194	0.03%	0.007%
47	6.508	6.490	6.559	VV	591	17658	0.26%	0.060%
48	6.572	6.559	6.600	VV	332	5469	0.08%	0.019%
49	6.602	6.600	6.614	VV	240	1476	0.02%	0.005%
50	6.619	6.614	6.636	VV	195	2198	0.03%	0.007%
51	6.641	6.636	6.657	VV	158	1779	0.03%	0.006%
52	6.669	6.664	6.674	VV	220	1124	0.02%	0.004%
53	6.678	6.674	6.697	VV	233	2680	0.04%	0.009%
54	6.699	6.697	6.720	VV	247	2539	0.04%	0.009%
55	6.746	6.720	6.802	VV	1013	24451	0.36%	0.083%
56	6.817	6.802	6.843	VV	788	11320	0.17%	0.039%
57	6.859	6.843	6.871	VV	415	5324	0.08%	0.018%
58	6.890	6.871	6.916	VV	1069	15534	0.23%	0.053%
59	6.923	6.916	6.945	VV	414	4702	0.07%	0.016%
60	6.965	6.945	7.002	VV	580	9934	0.15%	0.034%
61	7.006	7.002	7.039	VV	221	2711	0.04%	0.009%
62	7.046	7.039	7.064	PV	292	1998	0.03%	0.007%
63	7.070	7.064	7.090	VV	188	1981	0.03%	0.007%
64	7.114	7.104	7.123	VV	181	1294	0.02%	0.004%
65	7.142	7.139	7.168	VV	154	1175	0.02%	0.004%
66	7.188	7.168	7.219	VV	698	9149	0.14%	0.031%
67	7.245	7.219	7.269	VV	694	13581	0.20%	0.046%
68	7.291	7.269	7.307	VV	868	14266	0.21%	0.049%
69	7.313	7.307	7.344	VV	579	8796	0.13%	0.030%
70	7.371	7.344	7.436	VV	1326	26153	0.39%	0.089%
71	7.474	7.436	7.509	VV	560	17068	0.25%	0.058%
72	7.535	7.509	7.586	VV	3355	53899	0.80%	0.184%
73	7.608	7.586	7.632	VV	824	18569	0.28%	0.063%
74	7.645	7.632	7.664	VV	719	10919	0.16%	0.037%
75	7.685	7.664	7.713	VV	756	15457	0.23%	0.053%
76	7.719	7.713	7.730	VV	361	3392	0.05%	0.012%
77	7.741	7.730	7.759	VV	559	7428	0.11%	0.025%
78	7.772	7.759	7.804	VV	583	9130	0.14%	0.031%
79	7.822	7.804	7.836	VV	221	3128	0.05%	0.011%
80	7.841	7.836	7.874	VV	199	2753	0.04%	0.009%
81	7.895	7.874	7.909	PV	229	2878	0.04%	0.010%
82	7.944	7.909	7.966	VV	1113	16923	0.25%	0.058%
83	7.997	7.966	8.132	VV	605358	6541163	97.35%	22.318%
84	8.139	8.132	8.197	VV	2110	65763	0.98%	0.224%
85	8.207	8.197	8.237	VV	1252	25812	0.38%	0.088%
86	8.256	8.237	8.284	VV	1168	25724	0.38%	0.088%
87	8.287	8.284	8.298	VV	718	5781	0.09%	0.020%
88	8.314	8.298	8.332	VV	783	13976	0.21%	0.048%
89	8.345	8.332	8.379	VV	796	17929	0.27%	0.061%

rteres

90	8.382	8.379	8.409	VV	544	8149	0.12%	0.028%
91	8.418	8.409	8.424	VV	437	3365	0.05%	0.011%
92	8.450	8.424	8.455	VV	513	8326	0.12%	0.028%
93	8.471	8.455	8.502	VV	593	13857	0.21%	0.047%
94	8.531	8.502	8.542	VV	887	16745	0.25%	0.057%
95	8.562	8.542	8.637	VV	2059	46371	0.69%	0.158%
96	8.676	8.637	8.685	VV	763	16051	0.24%	0.055%
97	8.712	8.685	8.737	VV	1112	26540	0.39%	0.091%
98	8.755	8.737	8.777	VV	669	11842	0.18%	0.040%
99	8.794	8.777	8.824	VV	966	13218	0.20%	0.045%
100	8.875	8.847	8.961	VV	303280	3956139	58.88%	13.498%
101	8.976	8.961	9.090	VV	8950	312920	4.66%	1.068%
102	9.105	9.090	9.150	VV	2272	66924	1.00%	0.228%
103	9.164	9.150	9.199	VV	1464	34119	0.51%	0.116%
104	9.215	9.199	9.253	VV	1177	34531	0.51%	0.118%
105	9.292	9.253	9.379	VV	57682	719364	10.71%	2.454%
106	9.401	9.379	9.455	VV	3725	81145	1.21%	0.277%
107	9.475	9.455	9.517	VV	1143	31476	0.47%	0.107%
108	9.524	9.517	9.552	VV	855	12940	0.19%	0.044%
109	9.575	9.552	9.600	VV	994	19671	0.29%	0.067%
110	9.604	9.600	9.617	VV	528	4405	0.07%	0.015%
111	9.634	9.617	9.664	VV	525	13276	0.20%	0.045%
112	9.669	9.664	9.680	VV	616	4773	0.07%	0.016%
113	9.689	9.680	9.730	VV	603	13498	0.20%	0.046%
114	9.752	9.730	9.798	VV	914	16731	0.25%	0.057%
115	9.820	9.798	9.852	VV	1054	23986	0.36%	0.082%
116	9.857	9.852	9.882	VV	663	10752	0.16%	0.037%
117	9.899	9.882	9.921	VV	639	11849	0.18%	0.040%
118	9.956	9.921	9.985	VV	739	20188	0.30%	0.069%
119	10.006	9.985	10.015	VV	773	10243	0.15%	0.035%
120	10.025	10.015	10.053	VV	878	13404	0.20%	0.046%
121	10.073	10.053	10.161	VV	8984	242848	3.61%	0.829%
122	10.166	10.161	10.231	VV	1795	48039	0.71%	0.164%
123	10.238	10.231	10.248	VV	769	7063	0.11%	0.024%
124	10.261	10.248	10.290	VV	871	18871	0.28%	0.064%
125	10.309	10.290	10.332	VV	747	16959	0.25%	0.058%
126	10.344	10.332	10.367	VV	522	8212	0.12%	0.028%
127	10.400	10.367	10.419	VV	371	9114	0.14%	0.031%
128	10.423	10.419	10.434	VV	314	2225	0.03%	0.008%
129	10.443	10.434	10.460	VV	367	3769	0.06%	0.013%
130	10.487	10.460	10.504	VV	476	7988	0.12%	0.027%
131	10.509	10.504	10.532	VV	215	2539	0.04%	0.009%
132	10.563	10.532	10.583	PV	368	6769	0.10%	0.023%
133	10.598	10.583	10.618	VV	310	4586	0.07%	0.016%
134	10.635	10.618	10.669	VV	417	8334	0.12%	0.028%
135	10.693	10.669	10.712	VV	489	7651	0.11%	0.026%
136	10.729	10.712	10.742	VV	295	4314	0.06%	0.015%
137	10.747	10.742	10.751	VV	274	1548	0.02%	0.005%
138	10.766	10.751	10.776	VV	476	5684	0.08%	0.019%
139	10.807	10.776	10.825	VV	636	13659	0.20%	0.047%
140	10.844	10.825	10.870	VV	573	10564	0.16%	0.036%
141	10.892	10.870	10.900	VV	424	6199	0.09%	0.021%

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142	10.906	10.900	10.912	VV	418	2772	0.04%	0.009%
143	10.931	10.912	10.945	VV	620	10165	0.15%	0.035%
144	10.963	10.945	10.986	VV	1252	22742	0.34%	0.078%
145	10.992	10.986	11.001	VV	928	7029	0.10%	0.024%
146	11.032	11.001	11.097	VV	2457	63481	0.94%	0.217%
147	11.111	11.097	11.153	VV	647	12130	0.18%	0.041%
148	11.187	11.153	11.289	VV	21320	473205	7.04%	1.615%
149	11.308	11.289	11.417	VV	2188	100753	1.50%	0.344%
150	11.421	11.417	11.457	VV	593	9719	0.14%	0.033%
151	11.462	11.457	11.482	VV	259	3015	0.04%	0.010%
152	11.488	11.482	11.505	VV	191	1635	0.02%	0.006%
153	11.550	11.516	11.569	VV	483	7835	0.12%	0.027%
154	11.612	11.569	11.662	VV	1163	35867	0.53%	0.122%
155	11.689	11.662	11.697	VV	415	7215	0.11%	0.025%
156	11.703	11.697	11.722	VV	409	5047	0.08%	0.017%
157	11.741	11.722	11.792	VV	526	12600	0.19%	0.043%
158	11.814	11.792	11.839	VV	515	9688	0.14%	0.033%
159	11.843	11.839	11.864	VV	329	2895	0.04%	0.010%
160	11.935	11.864	11.986	VV	610877	6719164	100.00%	22.925%
161	12.008	11.986	12.034	VV	2925	62120	0.92%	0.212%
162	12.050	12.034	12.088	VV	2892	67176	1.00%	0.229%
163	12.108	12.088	12.142	VV	3655	70739	1.05%	0.241%
164	12.160	12.142	12.176	VV	2119	34632	0.52%	0.118%
165	12.194	12.176	12.234	VV	2426	57154	0.85%	0.195%
166	12.239	12.234	12.244	VV	932	5645	0.08%	0.019%
167	12.248	12.244	12.275	VV	964	15463	0.23%	0.053%
168	12.278	12.275	12.306	VV	844	10155	0.15%	0.035%
169	12.341	12.306	12.409	VV	4738	84681	1.26%	0.289%
170	12.415	12.409	12.426	VV	588	4974	0.07%	0.017%
171	12.434	12.426	12.464	VV	554	8786	0.13%	0.030%
172	12.505	12.464	12.528	VV	1494	37128	0.55%	0.127%
173	12.543	12.528	12.596	VV	3783	75789	1.13%	0.259%
174	12.607	12.596	12.625	VV	860	12918	0.19%	0.044%
175	12.639	12.625	12.673	VV	1080	20711	0.31%	0.071%
176	12.679	12.673	12.708	VV	494	8102	0.12%	0.028%
177	12.720	12.708	12.729	VV	378	4149	0.06%	0.014%
178	12.780	12.729	12.828	VV	6861	114327	1.70%	0.390%
179	12.856	12.828	12.876	VV	1617	26212	0.39%	0.089%
180	12.896	12.876	12.915	VV	2892	44390	0.66%	0.151%
181	12.925	12.915	12.949	VV	1790	28150	0.42%	0.096%
182	12.958	12.949	12.969	VV	1226	13422	0.20%	0.046%
183	13.003	12.969	13.109	VV	38294	691528	10.29%	2.359%
184	13.114	13.109	13.162	VV	670	12852	0.19%	0.044%
185	13.214	13.162	13.258	VV	1577	36031	0.54%	0.123%
186	13.301	13.258	13.340	VV	32886	505318	7.52%	1.724%
187	13.368	13.340	13.420	VV	129125	1759780	26.19%	6.004%
188	13.434	13.420	13.505	VV	3550	104177	1.55%	0.355%
189	13.528	13.505	13.568	VV	1636	41438	0.62%	0.141%
190	13.596	13.568	13.634	VV	3391	57147	0.85%	0.195%
191	13.661	13.634	13.699	VV	1323	33795	0.50%	0.115%
192	13.708	13.699	13.715	VV	603	5104	0.08%	0.017%
193	13.753	13.715	13.772	VV	1307	31797	0.47%	0.108%
194	13.799	13.772	13.859	VV	2321	67763	1.01%	0.231%

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195	13.866	13.859	13.875	VV	339	2832	0.04%	0.010%
196	13.908	13.875	13.922	VV	1664	33728	0.50%	0.115%
197	13.938	13.922	13.977	VV	2489	54910	0.82%	0.187%
198	13.986	13.977	14.024	VV	1179	21793	0.32%	0.074%
199	14.078	14.024	14.113	VV	3393	84843	1.26%	0.289%
200	14.119	14.113	14.148	VV	1138	15283	0.23%	0.052%
201	14.195	14.148	14.229	VV	2425	56351	0.84%	0.192%
202	14.243	14.229	14.314	VV	1428	36760	0.55%	0.125%
203	14.327	14.314	14.355	VV	258	4270	0.06%	0.015%
204	14.422	14.355	14.439	VV	459	10849	0.16%	0.037%
205	14.462	14.439	14.502	VV	374	7433	0.11%	0.025%
206	14.531	14.502	14.543	PV	454	7015	0.10%	0.024%
207	14.564	14.543	14.585	VV	715	13045	0.19%	0.045%
208	14.608	14.585	14.627	VV	623	12407	0.18%	0.042%
209	14.669	14.627	14.700	VV	785	25738	0.38%	0.088%
210	14.725	14.700	14.731	VV	1437	21065	0.31%	0.072%
211	14.735	14.731	14.753	VV	1460	18200	0.27%	0.062%
212	14.759	14.753	14.822	VV	1321	34911	0.52%	0.119%
213	14.830	14.822	14.835	VV	607	4627	0.07%	0.016%
214	14.855	14.835	14.874	VV	1669	26964	0.40%	0.092%
215	14.899	14.874	14.959	VV	4151	106563	1.59%	0.364%
216	14.962	14.959	14.968	VV	822	4517	0.07%	0.015%
217	14.979	14.968	14.995	VV	896	13162	0.20%	0.045%
218	15.007	14.995	15.025	VV	906	13999	0.21%	0.048%
219	15.049	15.025	15.058	VV	999	17028	0.25%	0.058%
220	15.070	15.058	15.107	VV	1085	26190	0.39%	0.089%
221	15.117	15.107	15.157	VV	722	14652	0.22%	0.050%
222	15.210	15.157	15.227	VV	9864	158629	2.36%	0.541%
223	15.244	15.227	15.344	VV	12251	357592	5.32%	1.220%
224	15.366	15.344	15.385	VV	2544	50066	0.75%	0.171%
225	15.392	15.385	15.415	VV	2033	28098	0.42%	0.096%
226	15.429	15.415	15.497	VV	1072	34220	0.51%	0.117%
227	15.534	15.497	15.562	VV	633	17734	0.26%	0.061%
228	15.608	15.562	15.729	VV	16360	354858	5.28%	1.211%
229	15.770	15.729	15.795	VV	2442	54126	0.81%	0.185%
230	15.815	15.795	15.852	VV	946	21331	0.32%	0.073%
231	15.873	15.852	15.880	VV	633	9101	0.14%	0.031%
232	15.910	15.880	15.930	VV	1948	39408	0.59%	0.134%
233	15.956	15.930	15.990	VV	1694	45736	0.68%	0.156%
234	16.002	15.990	16.012	VV	924	11521	0.17%	0.039%
235	16.035	16.012	16.050	VV	1357	26029	0.39%	0.089%
236	16.065	16.050	16.077	VV	1398	20736	0.31%	0.071%
237	16.081	16.077	16.113	VV	1329	23640	0.35%	0.081%
238	16.133	16.113	16.162	VV	1034	24233	0.36%	0.083%
239	16.179	16.162	16.185	VV	576	7399	0.11%	0.025%
240	16.209	16.185	16.228	VV	804	16388	0.24%	0.056%
241	16.249	16.228	16.283	VV	1224	25512	0.38%	0.087%
242	16.293	16.283	16.302	VV	549	5760	0.09%	0.020%
243	16.316	16.302	16.368	VV	645	16317	0.24%	0.056%
244	16.384	16.368	16.407	VV	364	6212	0.09%	0.021%
245	16.423	16.407	16.444	VV	165	1939	0.03%	0.007%
246	16.511	16.491	16.543	VV	327	4555	0.07%	0.016%

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247	16.564	16.543	16.571	VV	216	2332	0.03%	0.008%
248	16.624	16.571	16.666	VV	2651	67679	1.01%	0.231%
249	16.677	16.666	16.697	VV	919	15476	0.23%	0.053%
250	16.700	16.697	16.712	VV	716	6193	0.09%	0.021%
251	16.732	16.712	16.748	VV	1270	20108	0.30%	0.069%
252	16.770	16.748	16.799	VV	12950	228374	3.40%	0.779%
253	16.814	16.799	16.880	VV	6385	169314	2.52%	0.578%
254	16.914	16.880	17.015	VV	2789	101611	1.51%	0.347%
255	17.035	17.015	17.047	VV	568	7420	0.11%	0.025%
256	17.060	17.047	17.071	VV	706	8107	0.12%	0.028%
257	17.093	17.071	17.147	VV	7821	166928	2.48%	0.570%
258	17.167	17.147	17.229	VV	7941	215723	3.21%	0.736%
259	17.249	17.229	17.257	VV	2812	40726	0.61%	0.139%
260	17.279	17.257	17.381	VV	7706	171803	2.56%	0.586%
261	17.445	17.381	17.465	VV	883	27508	0.41%	0.094%
262	17.483	17.465	17.520	VV	676	13605	0.20%	0.046%
263	17.566	17.520	17.625	VV	5071	127920	1.90%	0.436%
264	17.649	17.625	17.673	VV	2906	48408	0.72%	0.165%
265	17.680	17.673	17.704	VV	827	12672	0.19%	0.043%
266	17.736	17.704	17.777	VV	1103	27494	0.41%	0.094%
267	17.809	17.777	17.824	VV	373	7603	0.11%	0.026%
268	17.849	17.824	17.950	VV	757	33321	0.50%	0.114%
269	17.982	17.959	17.991	VV	148	1639	0.02%	0.006%
270	18.022	17.999	18.035	VV	463	7096	0.11%	0.024%
271	18.059	18.035	18.065	VV	752	9773	0.15%	0.033%
272	18.086	18.065	18.116	VV	2458	37600	0.56%	0.128%
273	18.137	18.116	18.149	PV	141	1591	0.02%	0.005%
274	18.180	18.149	18.230	VV	5422	88022	1.31%	0.300%
275	18.251	18.230	18.269	VV	438	8626	0.13%	0.029%
276	18.274	18.269	18.299	VV	330	4944	0.07%	0.017%
277	18.321	18.299	18.342	VV	442	8048	0.12%	0.027%
278	18.363	18.342	18.387	VV	390	6901	0.10%	0.024%
279	18.446	18.387	18.490	PV	11815	247138	3.68%	0.843%
280	18.510	18.490	18.542	VV	4664	96933	1.44%	0.331%
281	18.565	18.542	18.607	VV	4335	109777	1.63%	0.375%
282	18.614	18.607	18.705	VV	2249	60700	0.90%	0.207%
283	18.713	18.705	18.730	VV	131	1571	0.02%	0.005%

Sum of corrected areas: 29309312

Aromatic EPH 022625.M Tue Mar 11 04:34:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052717.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:33
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-102-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:25:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.356	4436611	36.538 ug/ml
Spiked Amount 50.000		Recovery = 73.08%	
Target Compounds			

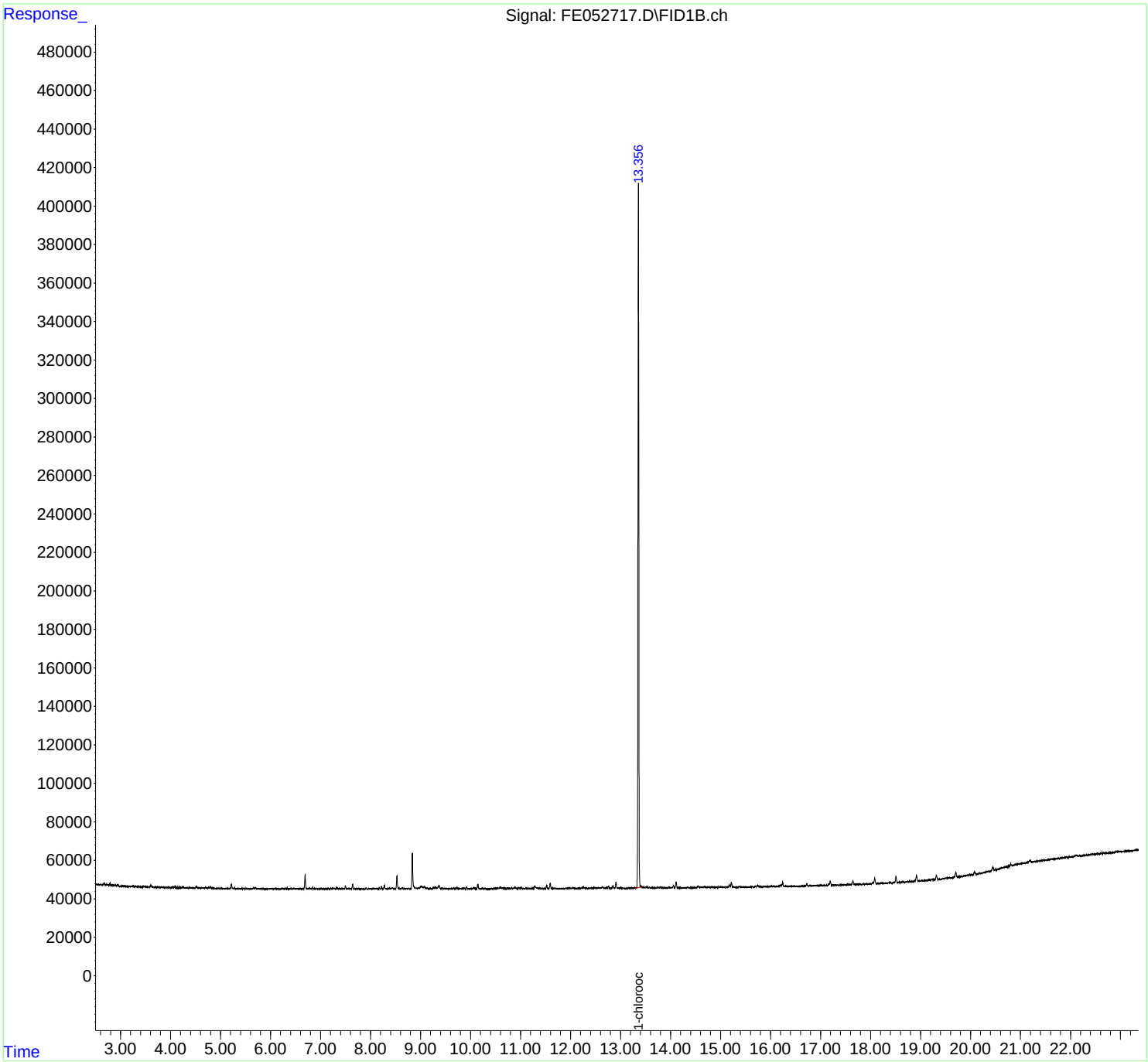
(f)=RT Delta > 1/2 Window (m)=manual int.

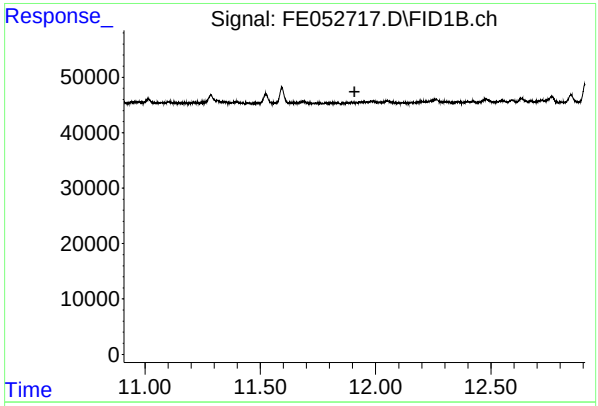
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052717.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:33
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-102-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:25:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

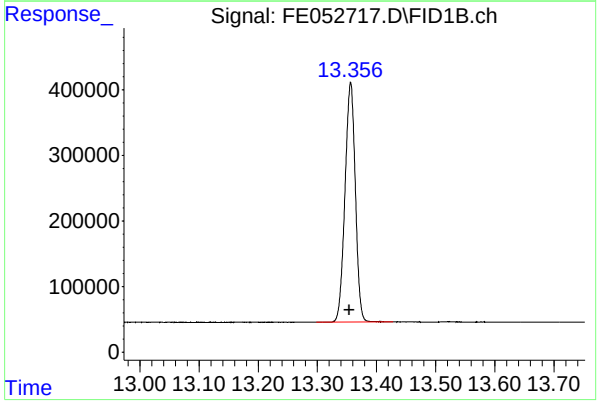




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-102-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.356 min
Delta R.T.: 0.002 min
Response: 4436611
Conc: 36.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052717.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 00:33
Sample : Q1488-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.692	6.665	6.748	BB	7401	80375	1.81%	1.670%
2	8.529	8.501	8.591	BB	6862	81461	1.84%	1.693%
3	8.837	8.748	8.898	BB	18511	213955	4.82%	4.446%
4	13.356	13.298	13.428	BB	362159	4436611	100.00%	92.191%
			Sum of corrected areas:			4812401		

Aliphatic EPH 030325.M Tue Mar 11 06:26:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015638.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:11
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-102-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:25:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.998	6119437	52.566 ug/ml
Spiked Amount 50.000		Recovery = 105.13%	
6) S 2-Flurobiphenyl (SURR)	8.876	3620112	50.822 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 101.64%	
11) S ortho-Terphenyl (SURR)	11.934	5650419	38.411 ug/ml
Spiked Amount 50.000		Recovery = 76.82%	
Target Compounds			

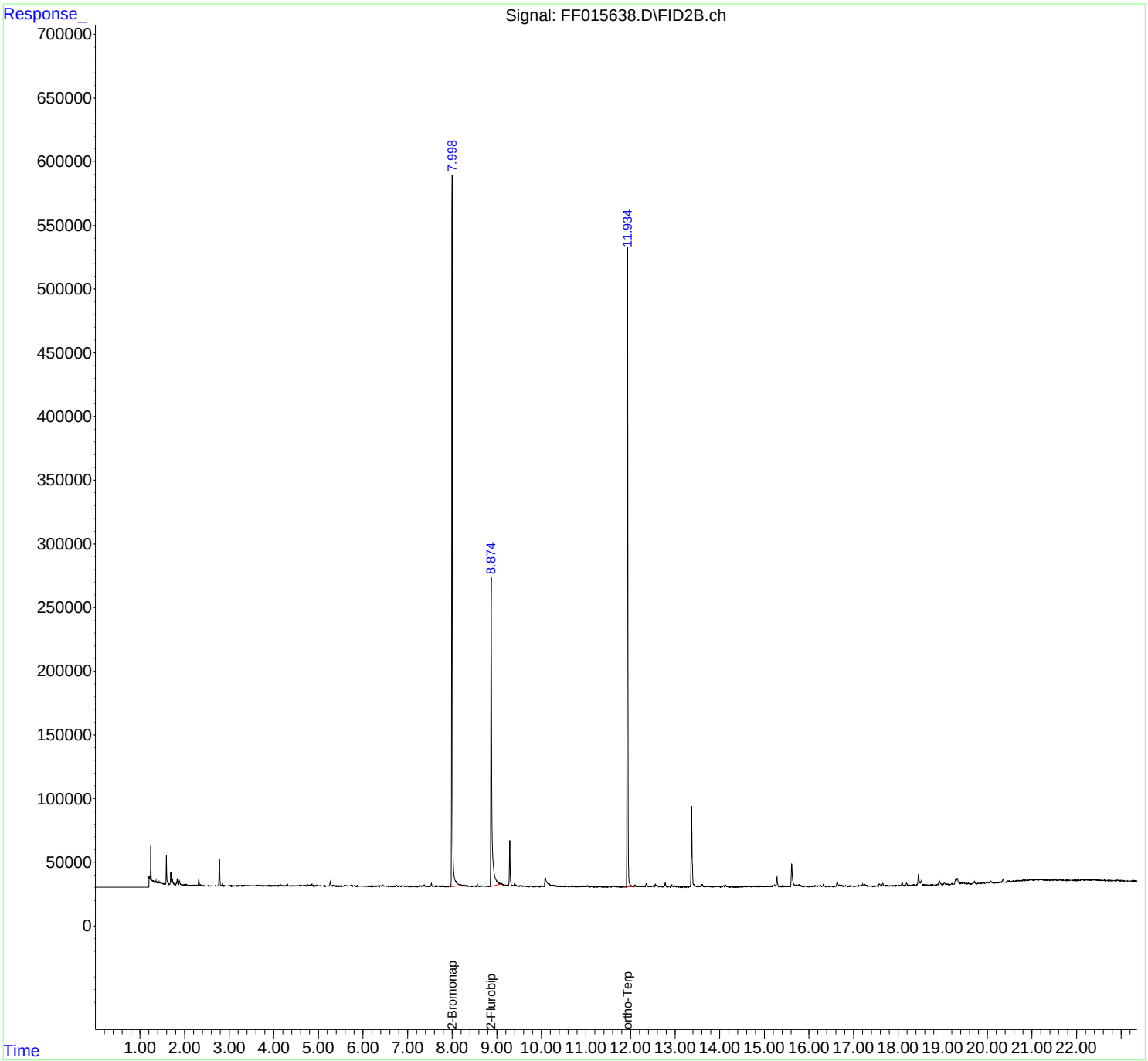
(f)=RT Delta > 1/2 Window (m)=manual int.

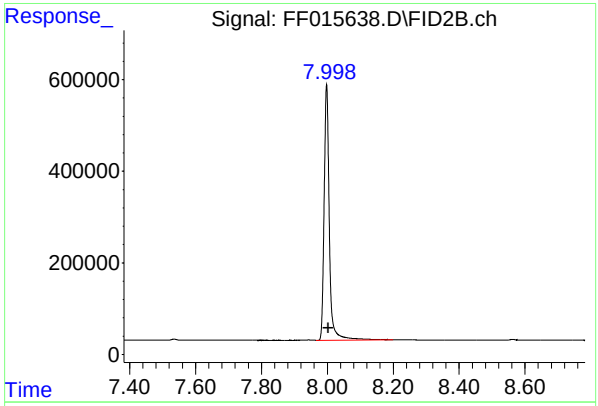
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015638.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:11
Operator : YP\AJ
Sample : Q1488-07
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-102-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:25:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

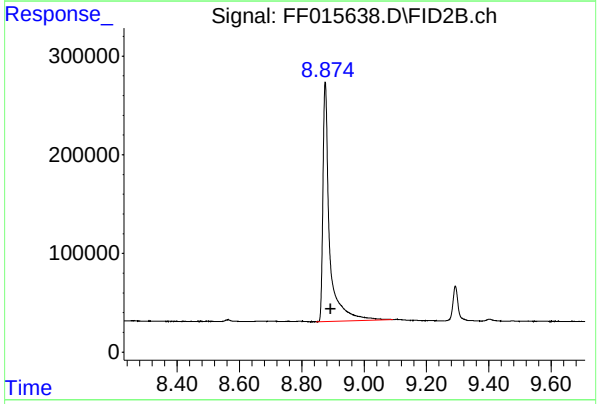




#4 2-Bromonaphthalene (SURR)

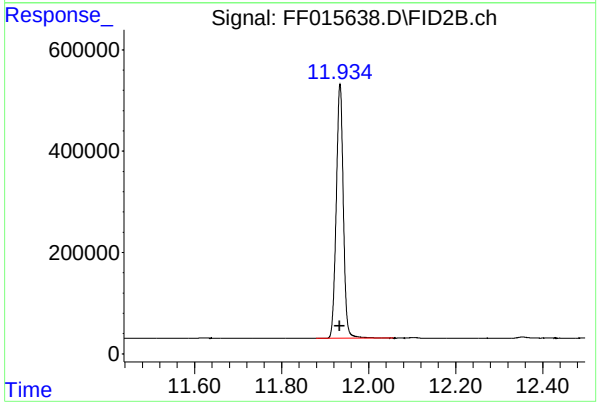
R.T.: 7.998 min
Delta R.T.: -0.005 min
Response: 6119437
Conc: 52.57 ug/ml

Instrument :
FID_F
ClientSampleId :
ENV-102-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.876 min
Delta R.T.: -0.016 min
Response: 3620112
Conc: 50.82 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.934 min
Delta R.T.: 0.000 min
Response: 5650419
Conc: 38.41 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015638.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:11
Sample : Q1488-07
Misc :
ALS Vial : 80 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	7.998	7.966	8.199	PB	558258	6119437	100.00%	35.277%
2	8.876	8.846	9.092	BB	242122	3620112	59.16%	20.869%
3	9.293	9.239	9.371	BB	35327	406346	6.64%	2.342%
4	10.086	10.061	10.159	BV	6375	157657	2.58%	0.909%
5	11.934	11.879	12.056	BB	502096	5650419	92.34%	32.573%
6	13.370	13.331	13.474	BB	63023	903705	14.77%	5.210%
7	15.280	15.252	15.341	VBA	7250	111242	1.82%	0.641%
8	15.610	15.572	15.692	BV	17836	312238	5.10%	1.800%
9	16.630	16.599	16.689	BB	3568	65835	1.08%	0.380%
			Sum of corrected areas:			17346990		

Aromatic EPH 022625.M Tue Mar 11 04:34:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052718.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:03
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-104-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:26:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.358	5213495	42.936 ug/ml
Spiked Amount 50.000		Recovery = 85.87%	
Target Compounds			

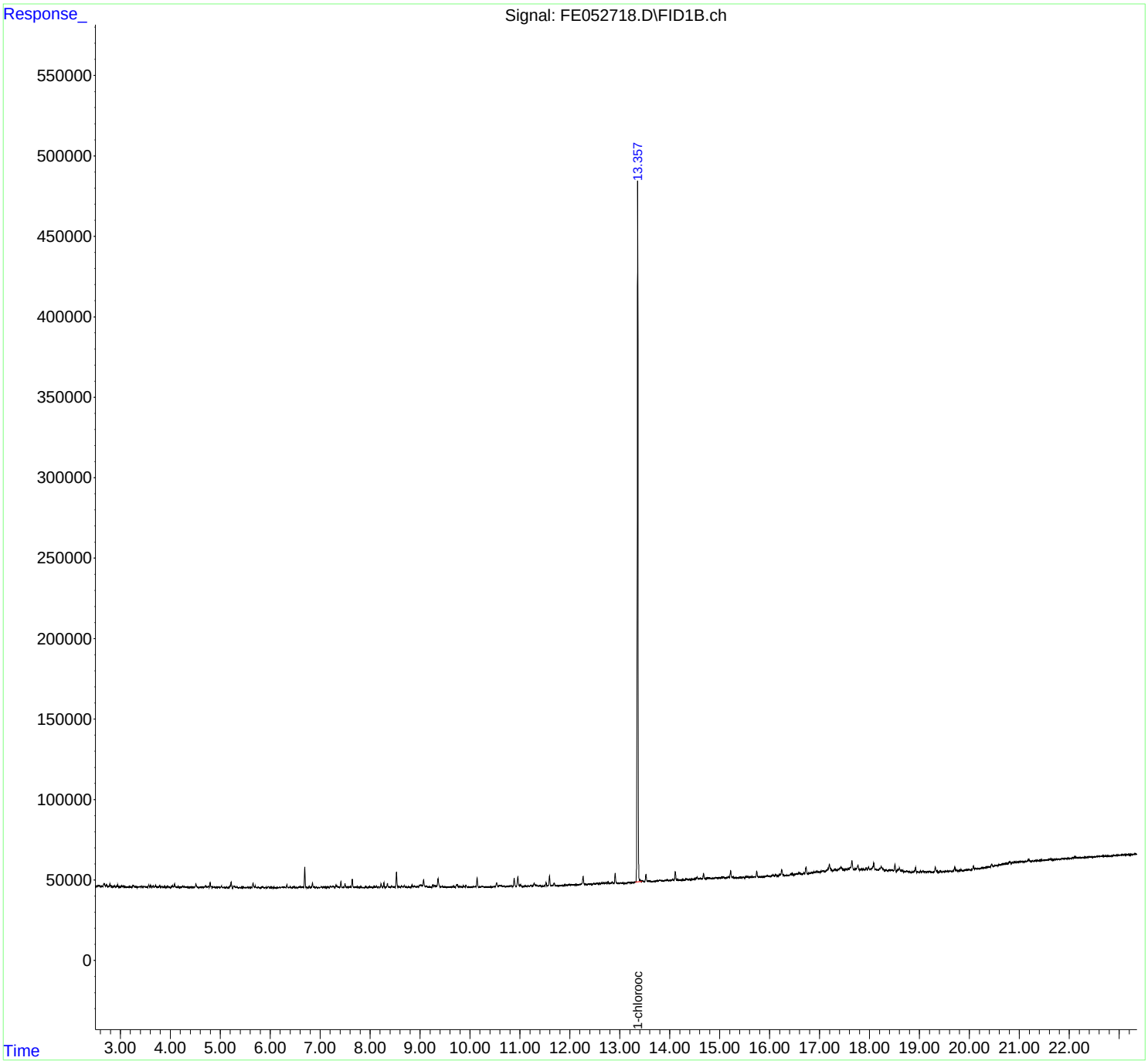
(f)=RT Delta > 1/2 Window (m)=manual int.

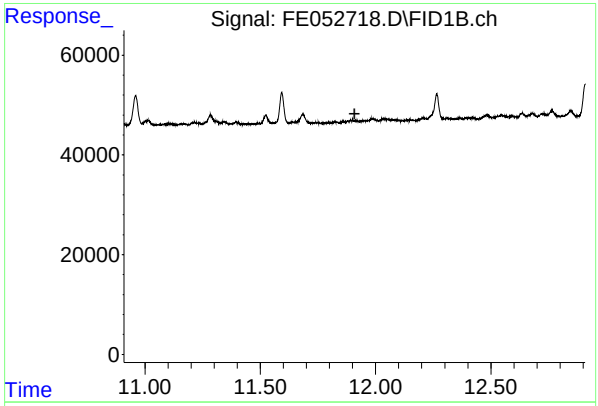
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052718.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:03
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-104-SB01

Integration File: autoint1.e
Quant Time: Mar 11 05:26:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

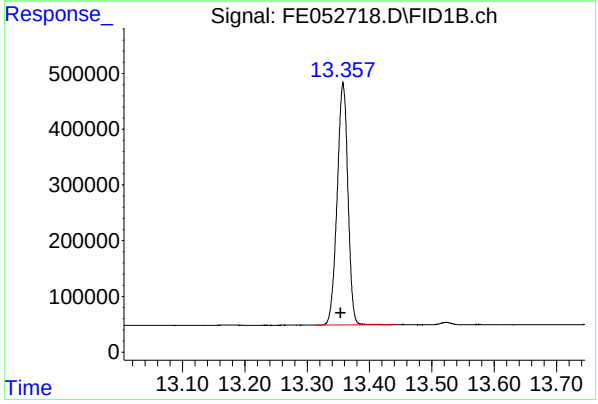




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-104-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.358 min
Delta R.T.: 0.003 min
Response: 5213495
Conc: 42.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052718.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:03
Sample : Q1488-09
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.692	6.668	6.751	BB	12747	134980	2.59%	2.470%
2	8.529	8.488	8.598	BB	9447	116104	2.23%	2.125%
3	13.358	13.314	13.438	BB	433975	5213495	100.00%	95.405%
			Sum of corrected areas:			5464579		

Aliphatic EPH 030325.M Tue Mar 11 06:26:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015639.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:41
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-104-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:26:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	5743878	49.340 ug/ml
Spiked Amount 50.000		Recovery =	98.68%
6) S 2-Flurobiphenyl (SURR)	8.875	3641411	51.121 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	102.24%
11) S ortho-Terphenyl (SURR)	11.935	6986134	47.491 ug/ml
Spiked Amount 50.000		Recovery =	94.98%
Target Compounds			

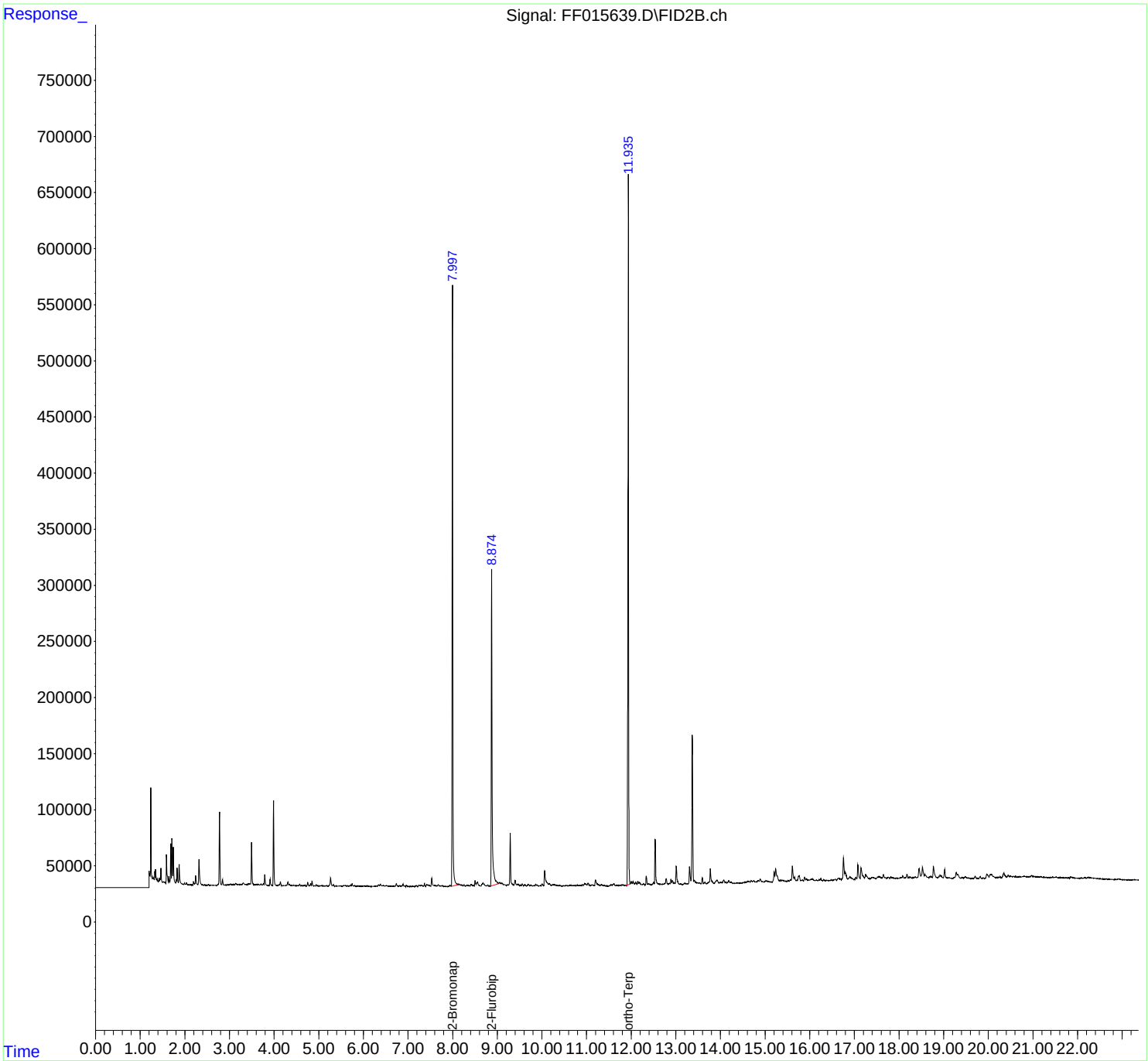
(f)=RT Delta > 1/2 Window (m)=manual int.

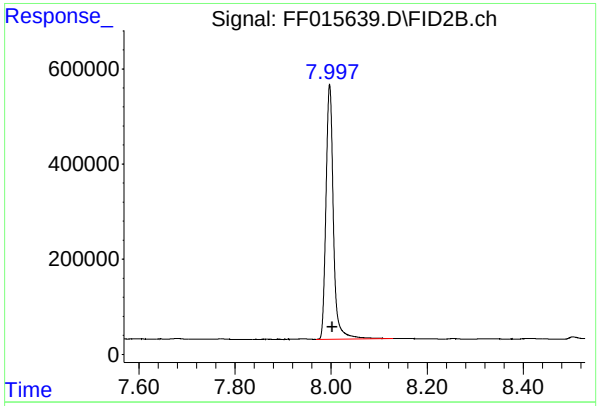
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015639.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:41
Operator : YP\AJ
Sample : Q1488-09
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-104-SB01

Integration File: autoint1.e
Quant Time: Mar 11 03:26:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

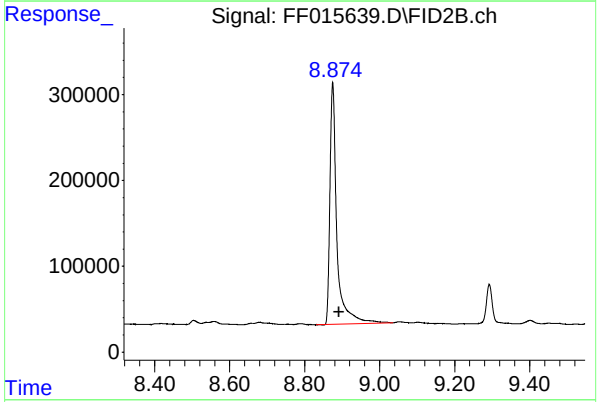




#4 2-Bromonaphthalene (SURR)

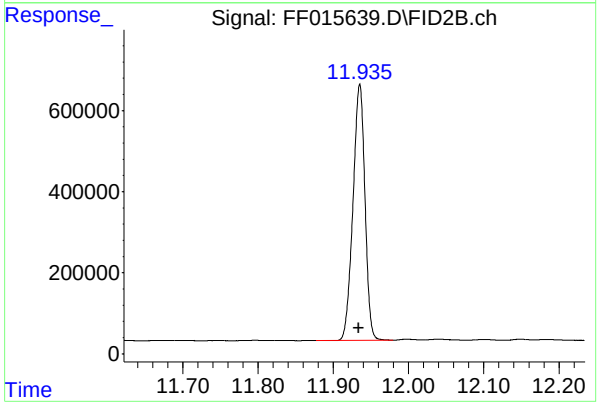
R.T.: 7.997 min
Delta R.T.: -0.006 min
Response: 5743878
Conc: 49.34 ug/ml

Instrument :
FID_F
ClientSampleId :
ENV-104-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.875 min
Delta R.T.: -0.017 min
Response: 3641411
Conc: 51.12 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.935 min
Delta R.T.: 0.002 min
Response: 6986134
Conc: 47.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015639.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 21:41
Sample : Q1488-09
Misc :
ALS Vial : 81 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.439	4.400	4.480	BV	387	5949	0.08%	0.019%
2	4.489	4.480	4.505	PV	114	1329	0.02%	0.004%
3	4.516	4.505	4.547	VV	232	3317	0.05%	0.011%
4	4.573	4.547	4.607	PV	1575	22604	0.32%	0.073%
5	4.625	4.607	4.674	VV	547	12953	0.18%	0.042%
6	4.693	4.674	4.723	VV	636	8635	0.12%	0.028%
7	4.755	4.723	4.785	PV	3289	44715	0.64%	0.145%
8	4.818	4.785	4.833	VV	2205	28591	0.41%	0.093%
9	4.851	4.833	4.890	VV	4478	55390	0.79%	0.179%
10	4.901	4.890	4.925	VV	239	4397	0.06%	0.014%
11	4.942	4.925	4.969	VV	1298	18549	0.26%	0.060%
12	4.976	4.969	5.005	VV	534	6973	0.10%	0.023%
13	5.010	5.005	5.020	VV	193	1415	0.02%	0.005%
14	5.024	5.020	5.044	VV	219	2494	0.04%	0.008%
15	5.061	5.044	5.074	VV	505	6350	0.09%	0.021%
16	5.081	5.074	5.109	VV	438	6218	0.09%	0.020%
17	5.115	5.109	5.127	VV	188	1439	0.02%	0.005%
18	5.135	5.127	5.149	VV	164	1260	0.02%	0.004%
19	5.180	5.158	5.215	VV	491	8644	0.12%	0.028%
20	5.267	5.215	5.306	VV	7321	117361	1.67%	0.380%
21	5.329	5.306	5.360	VV	1724	24516	0.35%	0.079%
22	5.376	5.360	5.380	VV	214	2086	0.03%	0.007%
23	5.387	5.380	5.420	VV	290	5254	0.07%	0.017%
24	5.433	5.420	5.450	VV	200	2801	0.04%	0.009%
25	5.478	5.450	5.497	VV	435	6793	0.10%	0.022%
26	5.504	5.497	5.517	VV	147	1281	0.02%	0.004%
27	5.576	5.537	5.582	VV	658	12241	0.17%	0.040%
28	5.586	5.582	5.639	VV	635	14710	0.21%	0.048%
29	5.642	5.639	5.654	VV	273	2217	0.03%	0.007%
30	5.665	5.654	5.691	VV	368	5434	0.08%	0.018%
31	5.715	5.691	5.732	VV	1135	17743	0.25%	0.057%
32	5.748	5.732	5.791	VV	2504	36887	0.52%	0.119%
33	5.810	5.791	5.827	VV	688	9680	0.14%	0.031%
34	5.833	5.827	5.857	VV	249	2713	0.04%	0.009%
35	5.878	5.857	5.919	VV	339	9121	0.13%	0.030%
36	5.924	5.919	5.940	VV	224	2012	0.03%	0.007%

rteres

37	5.961	5.949	5.990	VV	173	3493	0.05%	0.011%
38	6.018	5.990	6.052	VV	648	11321	0.16%	0.037%
39	6.077	6.052	6.108	VV	448	8559	0.12%	0.028%
40	6.115	6.108	6.131	VV	224	2481	0.04%	0.008%
41	6.135	6.131	6.147	VV	163	1292	0.02%	0.004%
42	6.202	6.194	6.223	VV	150	1647	0.02%	0.005%
43	6.239	6.223	6.248	VV	213	2113	0.03%	0.007%
44	6.285	6.248	6.315	VV	378	9620	0.14%	0.031%
45	6.340	6.315	6.365	VV	1394	28116	0.40%	0.091%
46	6.383	6.365	6.428	VV	2077	41040	0.58%	0.133%
47	6.446	6.428	6.468	VV	1276	19421	0.28%	0.063%
48	6.475	6.468	6.487	VV	410	4343	0.06%	0.014%
49	6.518	6.487	6.563	VV	1020	26132	0.37%	0.085%
50	6.569	6.563	6.594	VV	359	5236	0.07%	0.017%
51	6.597	6.594	6.619	VV	299	3199	0.05%	0.010%
52	6.638	6.619	6.665	VV	397	7870	0.11%	0.025%
53	6.686	6.673	6.709	VV	375	5192	0.07%	0.017%
54	6.739	6.709	6.800	VV	2612	44422	0.63%	0.144%
55	6.819	6.800	6.842	VV	1015	13249	0.19%	0.043%
56	6.858	6.842	6.871	VV	705	8113	0.12%	0.026%
57	6.889	6.871	6.910	VV	2281	27739	0.39%	0.090%
58	6.922	6.910	6.945	VV	648	7844	0.11%	0.025%
59	6.963	6.945	6.997	VV	1154	13998	0.20%	0.045%
60	7.066	7.052	7.097	VV	261	2893	0.04%	0.009%
61	7.113	7.097	7.144	PV	177	2713	0.04%	0.009%
62	7.188	7.164	7.220	VV	1167	13418	0.19%	0.043%
63	7.243	7.220	7.260	VV	1264	18572	0.26%	0.060%
64	7.268	7.260	7.274	VV	853	6760	0.10%	0.022%
65	7.291	7.274	7.303	VV	1278	17780	0.25%	0.058%
66	7.310	7.303	7.339	VV	1098	14402	0.20%	0.047%
67	7.371	7.339	7.394	VV	2047	30968	0.44%	0.100%
68	7.420	7.394	7.439	VV	1708	29783	0.42%	0.096%
69	7.453	7.439	7.510	VV	1526	38455	0.55%	0.125%
70	7.533	7.510	7.577	VV	7545	113965	1.62%	0.369%
71	7.594	7.577	7.626	VV	1003	24429	0.35%	0.079%
72	7.644	7.626	7.656	VV	868	12495	0.18%	0.040%
73	7.680	7.656	7.710	VV	1798	32249	0.46%	0.104%
74	7.714	7.710	7.719	VV	470	2109	0.03%	0.007%
75	7.740	7.719	7.756	VV	690	11794	0.17%	0.038%
76	7.772	7.756	7.810	VV	1145	14560	0.21%	0.047%
77	7.843	7.821	7.852	VV	184	1496	0.02%	0.005%
78	7.866	7.852	7.871	VV	213	1537	0.02%	0.005%
79	7.874	7.871	7.885	VV	201	1029	0.01%	0.003%
80	7.891	7.885	7.907	VV	142	1574	0.02%	0.005%
81	7.942	7.907	7.969	VV	1406	20375	0.29%	0.066%
82	7.997	7.969	8.128	VV	535771	5832631	82.87%	18.889%
83	8.145	8.128	8.197	VV	2046	66825	0.95%	0.216%
84	8.208	8.197	8.229	VV	1172	18373	0.26%	0.060%
85	8.234	8.229	8.238	VV	691	3355	0.05%	0.011%
86	8.254	8.238	8.295	VV	1701	31174	0.44%	0.101%
87	8.315	8.295	8.339	VV	1235	23488	0.33%	0.076%
88	8.342	8.339	8.366	VV	923	12684	0.18%	0.041%
89	8.376	8.366	8.389	VV	784	8770	0.12%	0.028%

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90	8.418	8.389	8.484	VV	1647	58314	0.83%	0.189%
91	8.504	8.484	8.525	VV	5314	70967	1.01%	0.230%
92	8.559	8.525	8.634	VV	4118	114616	1.63%	0.371%
93	8.657	8.634	8.665	VV	1955	21353	0.30%	0.069%
94	8.679	8.665	8.741	VV	2980	80674	1.15%	0.261%
95	8.755	8.741	8.770	VV	783	10811	0.15%	0.035%
96	8.789	8.770	8.807	VV	1460	21129	0.30%	0.068%
97	8.814	8.807	8.834	VV	413	4666	0.07%	0.015%
98	8.875	8.852	9.035	PV	282297	3799383	53.98%	12.304%
99	9.052	9.035	9.087	VV	3581	92401	1.31%	0.299%
100	9.102	9.087	9.149	VV	3055	84024	1.19%	0.272%
101	9.162	9.149	9.202	VV	1663	43290	0.62%	0.140%
102	9.243	9.202	9.257	VV	1420	39609	0.56%	0.128%
103	9.292	9.257	9.360	VV	47442	588974	8.37%	1.907%
104	9.401	9.360	9.435	VV	5267	116135	1.65%	0.376%
105	9.450	9.435	9.463	VV	1897	28484	0.40%	0.092%
106	9.471	9.463	9.510	VV	1752	32144	0.46%	0.104%
107	9.525	9.510	9.538	VV	966	12219	0.17%	0.040%
108	9.557	9.538	9.591	VV	2094	39411	0.56%	0.128%
109	9.609	9.591	9.658	VV	1487	36941	0.52%	0.120%
110	9.695	9.658	9.735	VV	1994	49970	0.71%	0.162%
111	9.752	9.735	9.791	VV	1272	24401	0.35%	0.079%
112	9.811	9.791	9.826	VV	624	8840	0.13%	0.029%
113	9.839	9.826	9.843	VV	639	5845	0.08%	0.019%
114	9.863	9.843	9.880	VV	1920	28436	0.40%	0.092%
115	9.894	9.880	9.933	VV	1233	21058	0.30%	0.068%
116	9.953	9.933	9.970	VV	476	8558	0.12%	0.028%
117	9.975	9.970	9.977	VV	521	1911	0.03%	0.006%
118	10.005	9.977	10.042	VV	2135	42123	0.60%	0.136%
119	10.061	10.042	10.152	VV	13751	333226	4.73%	1.079%
120	10.169	10.152	10.227	VV	2568	65854	0.94%	0.213%
121	10.252	10.227	10.270	VV	1402	31032	0.44%	0.100%
122	10.289	10.270	10.335	VV	1343	40013	0.57%	0.130%
123	10.352	10.335	10.366	VV	652	10823	0.15%	0.035%
124	10.397	10.366	10.435	VV	765	20564	0.29%	0.067%
125	10.441	10.435	10.461	VV	332	3080	0.04%	0.010%
126	10.489	10.461	10.508	VV	562	8809	0.13%	0.029%
127	10.534	10.508	10.544	VV	763	11548	0.16%	0.037%
128	10.559	10.544	10.579	VV	709	11107	0.16%	0.036%
129	10.599	10.579	10.614	VV	451	7139	0.10%	0.023%
130	10.632	10.614	10.640	VV	866	10334	0.15%	0.033%
131	10.655	10.640	10.677	VV	891	14720	0.21%	0.048%
132	10.694	10.677	10.713	VV	693	9921	0.14%	0.032%
133	10.731	10.713	10.760	VV	759	15684	0.22%	0.051%
134	10.793	10.760	10.822	VV	904	25566	0.36%	0.083%
135	10.844	10.822	10.870	VV	885	18583	0.26%	0.060%
136	10.911	10.870	10.920	VV	1262	24593	0.35%	0.080%
137	10.927	10.920	10.936	VV	1214	10420	0.15%	0.034%
138	10.960	10.936	11.009	VV	2388	71620	1.02%	0.232%
139	11.033	11.009	11.088	VV	2618	66864	0.95%	0.217%
140	11.121	11.088	11.125	VV	1218	19263	0.27%	0.062%
141	11.129	11.125	11.174	VV	1263	22633	0.32%	0.073%

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142	11.200	11.174	11.300	VV	5556	153732	2.18%	0.498%
143	11.328	11.300	11.357	VV	1325	32313	0.46%	0.105%
144	11.362	11.357	11.384	VV	760	9241	0.13%	0.030%
145	11.395	11.384	11.415	VV	586	8690	0.12%	0.028%
146	11.421	11.415	11.479	VV	431	7421	0.11%	0.024%
147	11.493	11.479	11.499	PV	177	1036	0.01%	0.003%
148	11.544	11.499	11.566	VV	1205	25687	0.36%	0.083%
149	11.589	11.566	11.595	VV	1318	18409	0.26%	0.060%
150	11.612	11.595	11.647	VV	2052	34754	0.49%	0.113%
151	11.673	11.647	11.686	VV	720	12106	0.17%	0.039%
152	11.705	11.686	11.726	VV	615	11022	0.16%	0.036%
153	11.743	11.726	11.765	VV	491	9149	0.13%	0.030%
154	11.798	11.765	11.822	VV	1184	24756	0.35%	0.080%
155	11.834	11.822	11.855	VV	727	10402	0.15%	0.034%
156	11.882	11.855	11.888	VV	521	8033	0.11%	0.026%
157	11.891	11.888	11.900	VV	423	2699	0.04%	0.009%
158	11.935	11.900	11.979	VV	634068	7038610	100.00%	22.795%
159	11.998	11.979	12.020	VV	3829	65691	0.93%	0.213%
160	12.038	12.020	12.079	VV	3864	89214	1.27%	0.289%
161	12.102	12.079	12.128	VV	3182	60779	0.86%	0.197%
162	12.148	12.128	12.167	VV	3644	58449	0.83%	0.189%
163	12.184	12.167	12.234	VV	3016	71948	1.02%	0.233%
164	12.279	12.234	12.312	VV	1546	44595	0.63%	0.144%
165	12.338	12.312	12.370	VV	8230	114535	1.63%	0.371%
166	12.384	12.370	12.399	VV	1266	20191	0.29%	0.065%
167	12.408	12.399	12.462	VV	1083	31061	0.44%	0.101%
168	12.497	12.462	12.518	VV	2606	55908	0.79%	0.181%
169	12.537	12.518	12.634	VV	40827	531869	7.56%	1.722%
170	12.647	12.634	12.660	VV	930	13890	0.20%	0.045%
171	12.664	12.660	12.667	VV	1011	4335	0.06%	0.014%
172	12.670	12.667	12.695	VV	1001	15325	0.22%	0.050%
173	12.704	12.695	12.716	VV	815	9267	0.13%	0.030%
174	12.742	12.716	12.756	VV	1466	28560	0.41%	0.092%
175	12.783	12.756	12.810	VV	5711	100827	1.43%	0.327%
176	12.818	12.810	12.837	VV	1408	16972	0.24%	0.055%
177	12.858	12.837	12.872	VV	1809	27072	0.38%	0.088%
178	12.890	12.872	12.908	VV	5202	72160	1.03%	0.234%
179	12.924	12.908	12.946	VV	3951	64371	0.91%	0.208%
180	12.959	12.946	12.977	VV	2411	34688	0.49%	0.112%
181	13.008	12.977	13.092	VV	16769	315256	4.48%	1.021%
182	13.119	13.092	13.151	VV	867	20419	0.29%	0.066%
183	13.183	13.151	13.196	PV	1325	19822	0.28%	0.064%
184	13.210	13.196	13.230	VV	1444	22884	0.33%	0.074%
185	13.248	13.230	13.265	VV	1043	18080	0.26%	0.059%
186	13.305	13.265	13.339	VV	15967	267812	3.80%	0.867%
187	13.368	13.339	13.401	VV	132603	1709541	24.29%	5.536%
188	13.413	13.401	13.503	VV	3983	134394	1.91%	0.435%
189	13.515	13.503	13.520	VV	1369	12783	0.18%	0.041%
190	13.531	13.520	13.559	VV	1459	24621	0.35%	0.080%
191	13.592	13.559	13.625	VV	5964	92280	1.31%	0.299%
192	13.647	13.625	13.680	VV	1792	36529	0.52%	0.118%
193	13.707	13.680	13.712	VV	964	13341	0.19%	0.043%
194	13.770	13.712	13.849	VV	13985	278539	3.96%	0.902%

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195	13.921	13.849	13.963	VV	3601	133959	1.90%	0.434%
196	13.999	13.963	14.015	VV	1643	35951	0.51%	0.116%
197	14.028	14.015	14.044	VV	1477	21446	0.30%	0.069%
198	14.074	14.044	14.103	VV	3456	76258	1.08%	0.247%
199	14.119	14.103	14.138	VV	1865	26420	0.38%	0.086%
200	14.183	14.138	14.215	VV	2943	69025	0.98%	0.224%
201	14.230	14.215	14.280	VV	1520	36722	0.52%	0.119%
202	14.290	14.280	14.322	VV	479	8294	0.12%	0.027%
203	14.357	14.322	14.366	VV	448	7707	0.11%	0.025%
204	14.370	14.366	14.374	VV	367	1692	0.02%	0.005%
205	14.392	14.374	14.428	VV	494	8701	0.12%	0.028%
206	14.452	14.428	14.479	PV	437	6941	0.10%	0.022%
207	14.515	14.479	14.537	VV	859	18611	0.26%	0.060%
208	14.559	14.537	14.576	VV	1138	19794	0.28%	0.064%
209	14.609	14.576	14.627	VV	1680	39296	0.56%	0.127%
210	14.644	14.627	14.665	VV	1765	31170	0.44%	0.101%
211	14.686	14.665	14.725	VV	2394	60037	0.85%	0.194%
212	14.747	14.725	14.774	VV	2023	43419	0.62%	0.141%
213	14.786	14.774	14.796	VV	1016	12303	0.17%	0.040%
214	14.841	14.796	14.866	VV	2410	62044	0.88%	0.201%
215	14.890	14.866	14.959	VV	3555	97959	1.39%	0.317%
216	14.963	14.959	14.980	VV	962	10531	0.15%	0.034%
217	15.002	14.980	15.007	VV	1314	16038	0.23%	0.052%
218	15.030	15.007	15.047	VV	1438	31972	0.45%	0.104%
219	15.054	15.047	15.062	VV	1298	11220	0.16%	0.036%
220	15.066	15.062	15.087	VV	1297	15538	0.22%	0.050%
221	15.097	15.087	15.156	VV	853	20227	0.29%	0.066%
222	15.200	15.156	15.215	VV	9348	143241	2.04%	0.464%
223	15.235	15.215	15.265	VV	12073	250216	3.55%	0.810%
224	15.270	15.265	15.314	VV	5885	97957	1.39%	0.317%
225	15.330	15.314	15.344	VV	1573	25875	0.37%	0.084%
226	15.363	15.344	15.379	VV	1866	34122	0.48%	0.111%
227	15.394	15.379	15.487	VV	1658	67711	0.96%	0.219%
228	15.505	15.487	15.523	VV	1074	17296	0.25%	0.056%
229	15.526	15.523	15.528	VV	869	2770	0.04%	0.009%
230	15.533	15.528	15.539	VV	953	5670	0.08%	0.018%
231	15.566	15.539	15.584	VV	1847	39461	0.56%	0.128%
232	15.609	15.584	15.645	VV	14108	250982	3.57%	0.813%
233	15.659	15.645	15.701	VV	4215	80776	1.15%	0.262%
234	15.711	15.701	15.722	VV	1319	15812	0.22%	0.051%
235	15.748	15.722	15.755	VV	4933	64647	0.92%	0.209%
236	15.765	15.755	15.790	VV	5270	75668	1.08%	0.245%
237	15.797	15.790	15.812	VV	1068	12818	0.18%	0.042%
238	15.831	15.812	15.857	VV	1701	29696	0.42%	0.096%
239	15.883	15.857	15.907	VV	3872	68526	0.97%	0.222%
240	15.923	15.907	15.963	VV	2209	55305	0.79%	0.179%
241	15.982	15.963	16.000	VV	1354	26759	0.38%	0.087%
242	16.041	16.000	16.119	VV	2073	100359	1.43%	0.325%
243	16.146	16.119	16.174	VV	1062	25585	0.36%	0.083%
244	16.179	16.174	16.190	VV	630	5003	0.07%	0.016%
245	16.213	16.190	16.219	VV	1240	16475	0.23%	0.053%
246	16.225	16.219	16.234	VV	1251	10419	0.15%	0.034%

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247	16.249	16.234	16.281	VV	1730	30270	0.43%	0.098%
248	16.313	16.281	16.342	VV	1241	22264	0.32%	0.072%
249	16.346	16.342	16.360	VV	422	3696	0.05%	0.012%
250	16.381	16.360	16.403	VV	556	8744	0.12%	0.028%
251	16.416	16.403	16.424	VV	176	1353	0.02%	0.004%
252	16.438	16.424	16.441	PV	242	1268	0.02%	0.004%
253	16.449	16.441	16.453	VV	322	1952	0.03%	0.006%
254	16.460	16.453	16.465	VV	391	2597	0.04%	0.008%
255	16.483	16.465	16.508	VV	809	12110	0.17%	0.039%
256	16.531	16.508	16.542	VV	668	8824	0.13%	0.029%
257	16.571	16.542	16.604	VV	1321	31550	0.45%	0.102%
258	16.643	16.604	16.703	VV	2093	81358	1.16%	0.263%
259	16.754	16.703	16.782	VV	19990	349155	4.96%	1.131%
260	16.793	16.782	16.857	VV	7104	177208	2.52%	0.574%
261	16.899	16.857	17.001	VV	3263	138140	1.96%	0.447%
262	17.032	17.001	17.054	VV	2508	44074	0.63%	0.143%
263	17.077	17.054	17.128	VV	13663	242869	3.45%	0.787%
264	17.149	17.128	17.227	VV	10755	288960	4.11%	0.936%
265	17.251	17.227	17.320	VV	4848	149483	2.12%	0.484%
266	17.326	17.320	17.352	VV	1221	19083	0.27%	0.062%
267	17.415	17.352	17.490	VV	1828	108874	1.55%	0.353%
268	17.521	17.490	17.532	VV	2024	38963	0.55%	0.126%
269	17.546	17.532	17.570	VV	2286	47617	0.68%	0.154%
270	17.575	17.570	17.600	VV	1828	26274	0.37%	0.085%
271	17.617	17.600	17.627	VV	1325	19503	0.28%	0.063%
272	17.650	17.627	17.677	VV	4093	74531	1.06%	0.241%
273	17.687	17.677	17.717	VV	1551	29147	0.41%	0.094%
274	17.765	17.717	17.795	VV	1548	51084	0.73%	0.165%
275	17.818	17.795	17.855	VV	1862	43179	0.61%	0.140%
276	17.865	17.855	17.887	VV	1017	16256	0.23%	0.053%
277	17.892	17.887	17.897	VV	549	2946	0.04%	0.010%
278	17.904	17.897	17.914	VV	552	4790	0.07%	0.016%
279	17.941	17.914	17.963	VV	581	14168	0.20%	0.046%
280	17.981	17.963	18.002	VV	504	8330	0.12%	0.027%
281	18.026	18.002	18.037	VV	788	12237	0.17%	0.040%
282	18.054	18.037	18.067	VV	1022	16214	0.23%	0.053%
283	18.084	18.067	18.117	VV	2389	39050	0.55%	0.126%
284	18.137	18.117	18.147	VV	714	9725	0.14%	0.031%
285	18.177	18.147	18.204	VV	3780	63240	0.90%	0.205%
286	18.222	18.204	18.228	VV	887	11340	0.16%	0.037%
287	18.251	18.228	18.285	VV	1052	26397	0.38%	0.085%
288	18.318	18.285	18.337	VV	548	12740	0.18%	0.041%
289	18.358	18.337	18.395	VV	1119	23684	0.34%	0.077%
290	18.414	18.395	18.418	VV	750	7162	0.10%	0.023%
291	18.449	18.418	18.488	VV	8295	184050	2.61%	0.596%
292	18.524	18.488	18.565	VV	9608	214119	3.04%	0.693%
293	18.579	18.565	18.625	VV	2979	71825	1.02%	0.233%
294	18.637	18.625	18.652	VV	585	7623	0.11%	0.025%
295	18.655	18.652	18.671	VV	427	2606	0.04%	0.008%
296	18.692	18.671	18.700	PV	965	10774	0.15%	0.035%
297	18.705	18.700	18.711	VV	925	5478	0.08%	0.018%
298	18.722	18.711	18.748	VV	998	14444	0.21%	0.047%
299	18.770	18.748	18.800	PBA	8871	130960	1.86%	0.424%

rteres
Sum of corrected areas: 30878033

Aromatic EPH 022625.M Tue Mar 11 04:35:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052719.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:34
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-104-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:26:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.357	4009135	33.017 ug/ml
Spiked Amount 50.000		Recovery = 66.03%	
Target Compounds			

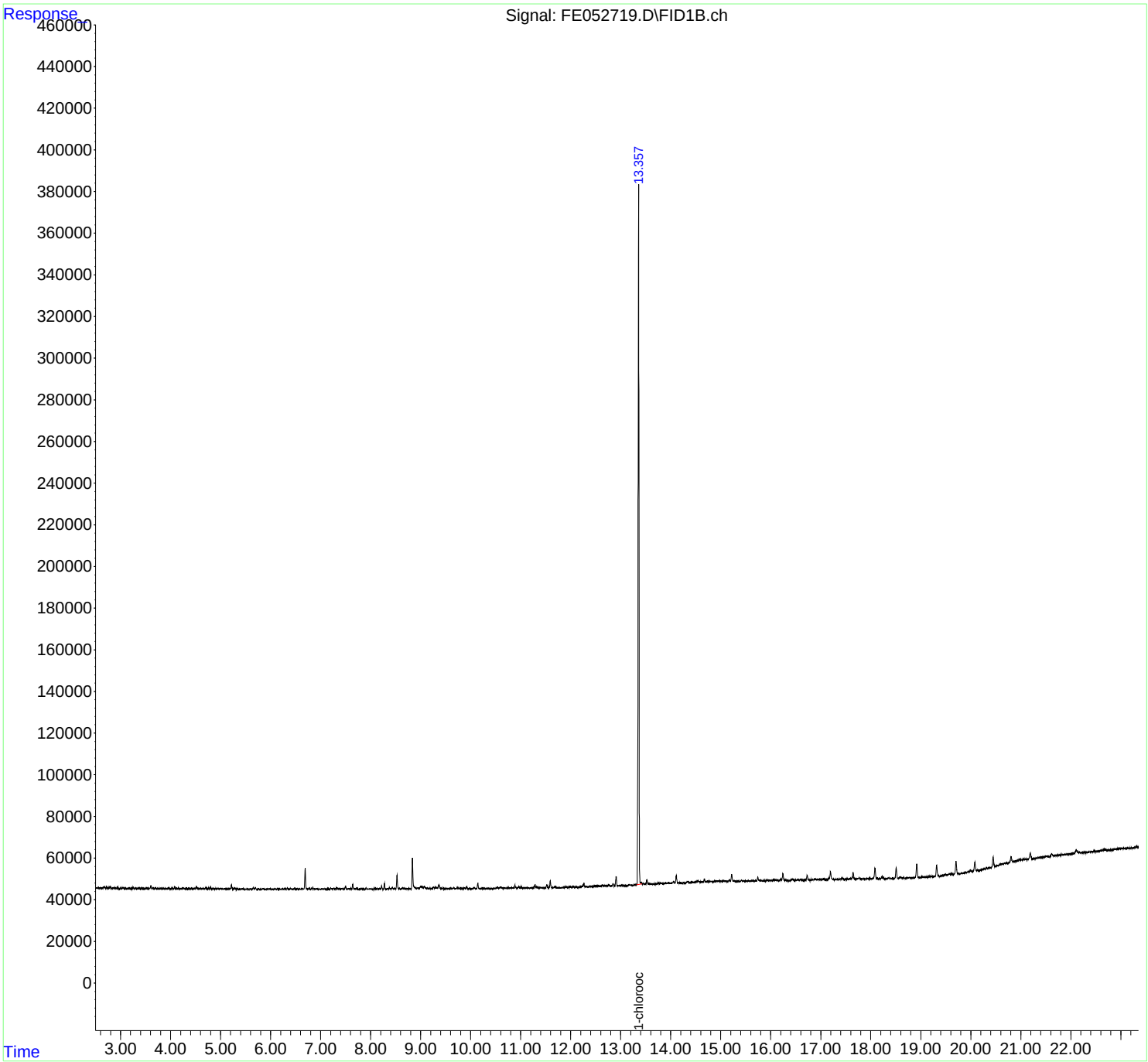
(f)=RT Delta > 1/2 Window (m)=manual int.

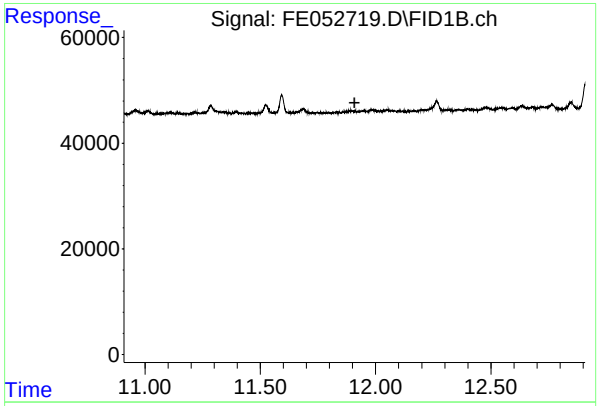
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052719.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:34
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-104-SB02

Integration File: autoint1.e
Quant Time: Mar 11 05:26:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

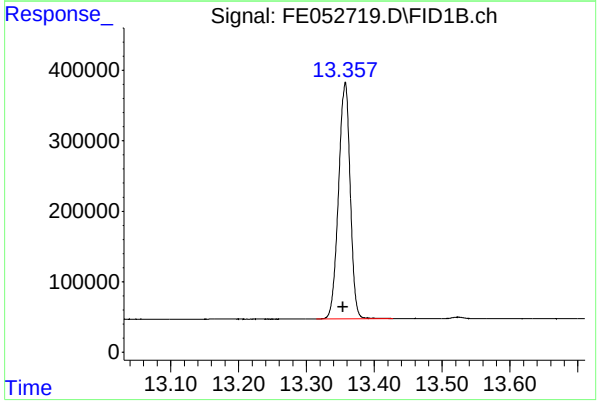




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
ENV-104-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.357 min
Delta R.T.: 0.003 min
Response: 4009135
Conc: 33.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052719.D
Signal(s) : FID1B.ch
Acq On : 11 Mar 2025 01:34
Sample : Q1488-11
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.692	6.661	6.748	BB	10107	110142	2.75%	2.457%
2	8.528	8.494	8.591	BB	6735	78988	1.97%	1.762%
3	8.837	8.808	8.901	BB	14843	178622	4.46%	3.984%
4	13.357	13.314	13.428	BB	336818	4009135	100.00%	89.429%
5	18.919	18.871	18.978	BB	6633	106151	2.65%	2.368%

Sum of corrected areas: 4483037

Aliphatic EPH 030325.M Tue Mar 11 06:26:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015640.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 22:10
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-104-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:26:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	6223400	53.459 ug/ml
Spiked Amount 50.000		Recovery = 106.92%	
6) S 2-Flurobiphenyl (SURR)	8.875	3813525	53.537 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.07%	
11) S ortho-Terphenyl (SURR)	11.934	4906237	33.352 ug/ml
Spiked Amount 50.000		Recovery = 66.70%	
Target Compounds			

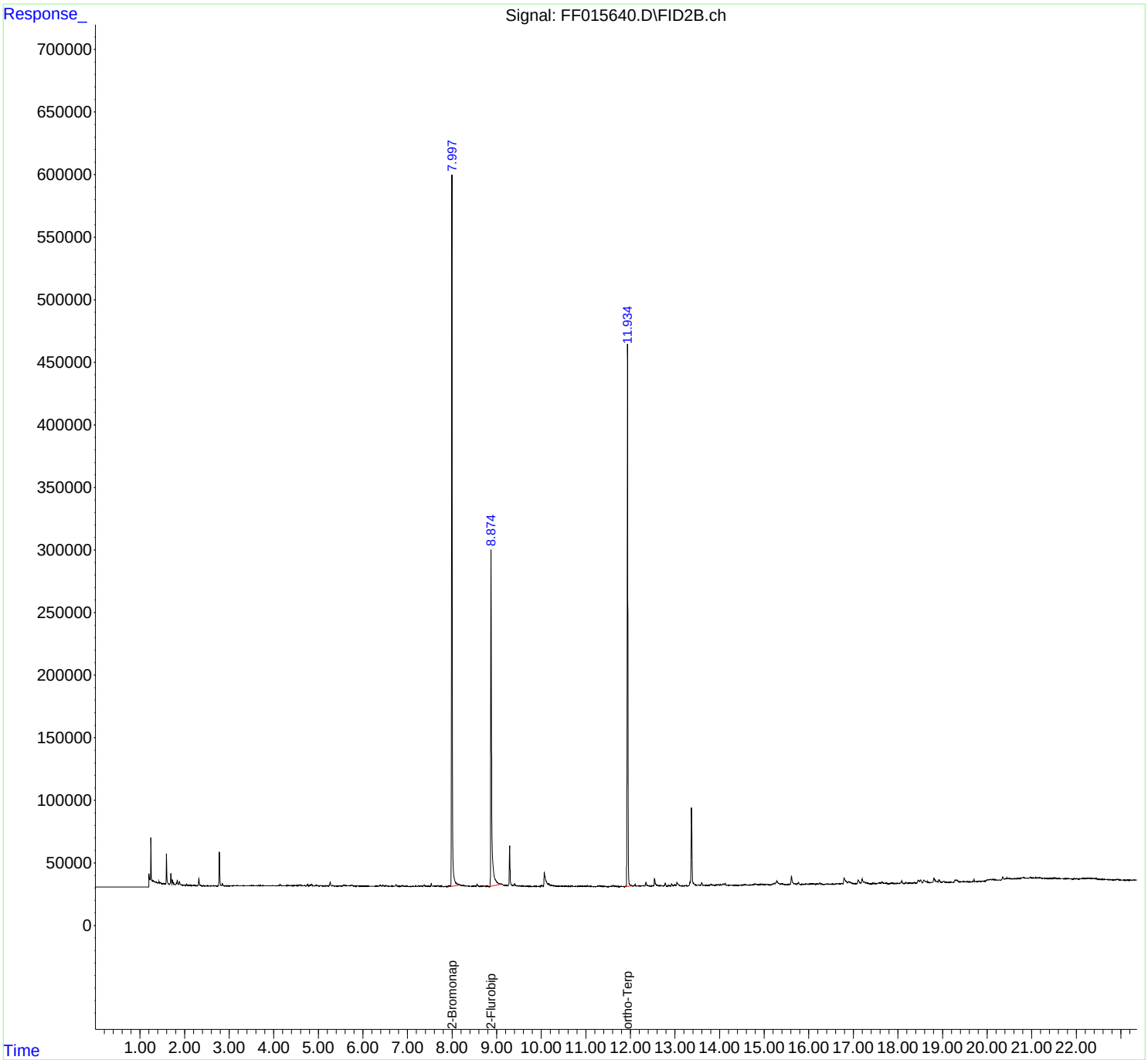
(f)=RT Delta > 1/2 Window (m)=manual int.

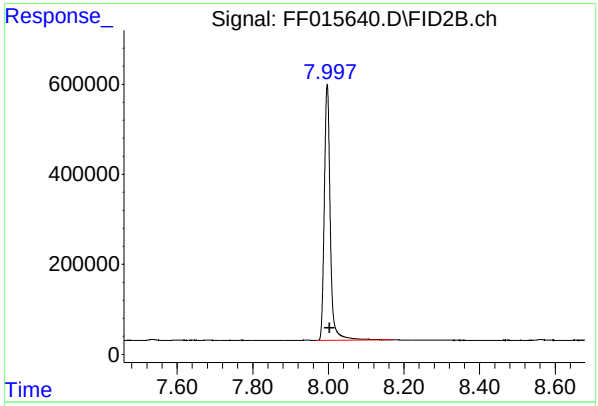
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015640.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 22:10
Operator : YP\AJ
Sample : Q1488-11
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-104-SB02

Integration File: autoint1.e
Quant Time: Mar 11 03:26:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

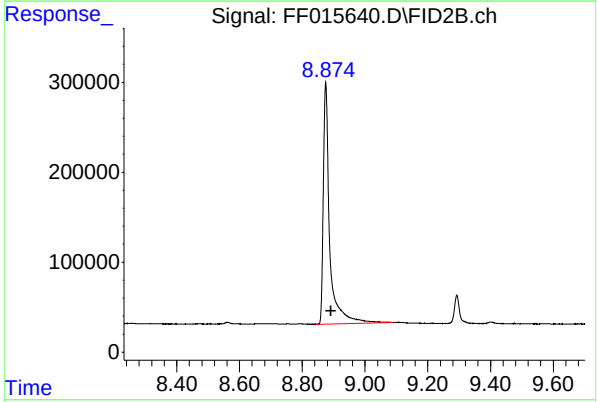




#4 2-Bromonaphthalene (SURR)

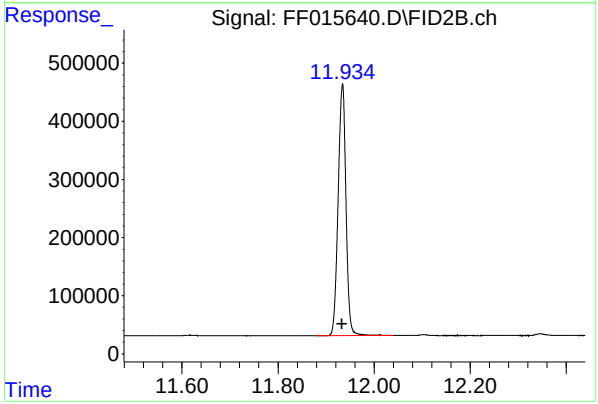
R.T.: 7.997 min
Delta R.T.: -0.006 min
Response: 6223400
Conc: 53.46 ug/ml

Instrument :
FID_F
ClientSampleId :
ENV-104-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.875 min
Delta R.T.: -0.017 min
Response: 3813525
Conc: 53.54 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.934 min
Delta R.T.: 0.000 min
Response: 4906237
Conc: 33.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015640.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 22:10
Sample : Q1488-11
Misc :
ALS Vial : 82 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	7.997	7.967	8.171	BB	568857	6223400	100.00%	36.898%
2	8.875	8.844	9.089	BB	267487	3813525	61.28%	22.610%
3	9.293	9.237	9.371	BB	31837	356391	5.73%	2.113%
4	10.070	10.049	10.216	PB	10945	319976	5.14%	1.897%
5	11.934	11.879	12.039	BB	432706	4906237	78.84%	29.089%
6	12.540	12.524	12.602	PB	5826	86393	1.39%	0.512%
7	13.369	13.279	13.477	BB	62231	895332	14.39%	5.308%
8	15.611	15.501	15.694	BB	6261	118318	1.90%	0.701%
9	16.792	16.694	16.867	BV	4099	94911	1.53%	0.563%
10	18.806	18.749	18.850	BBA	2951	51967	0.84%	0.308%

Sum of corrected areas: 16866449

Aromatic EPH 022625.M Tue Mar 11 04:36:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068373.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 18:27
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
ENV-102-GW01

Integration File: autoint1.e
Quant Time: Mar 05 22:33:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.834	3961758	35.224 ug/ml
Spiked Amount 50.000		Recovery = 70.45%	
Target Compounds			

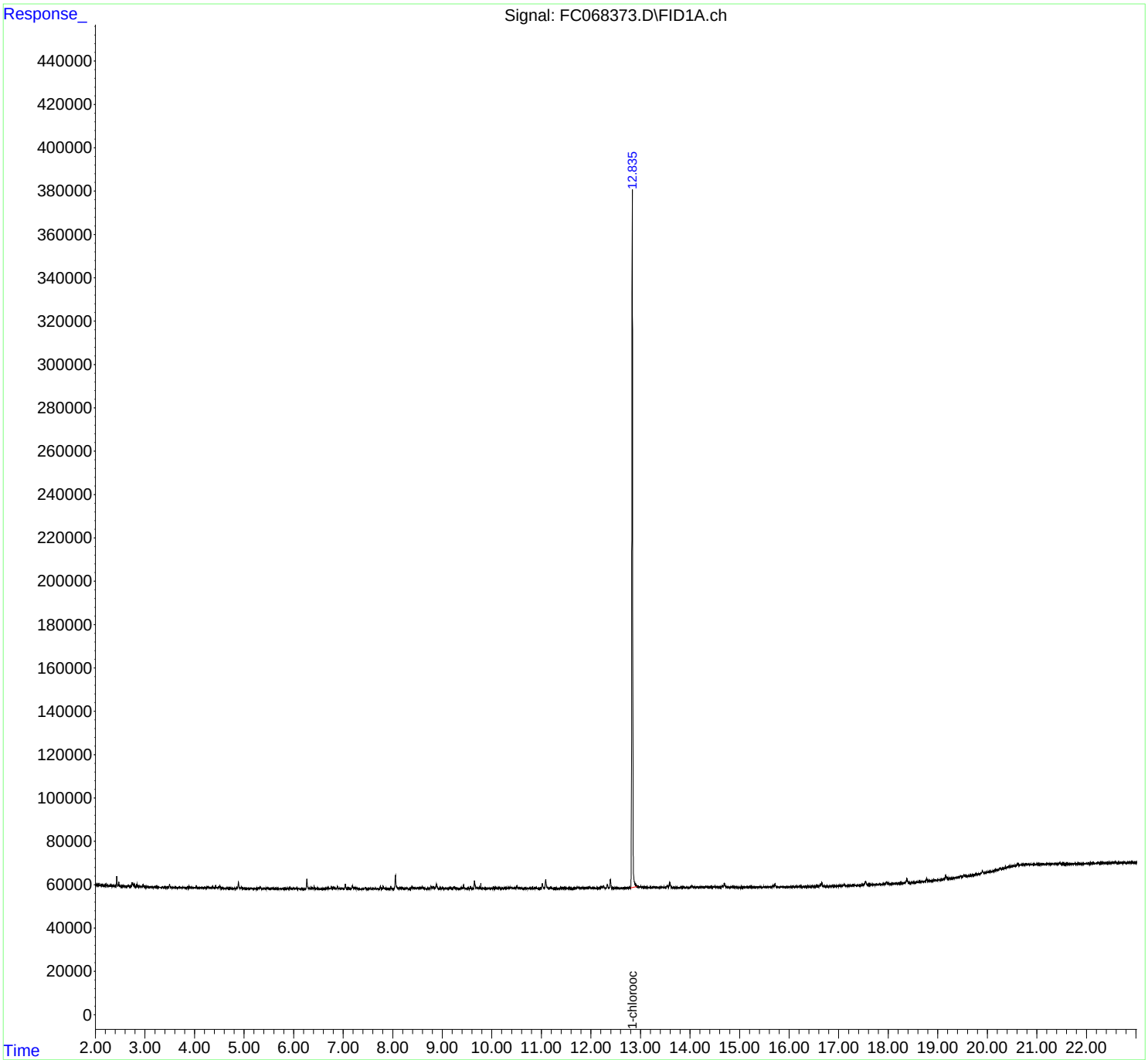
(f)=RT Delta > 1/2 Window (m)=manual int.

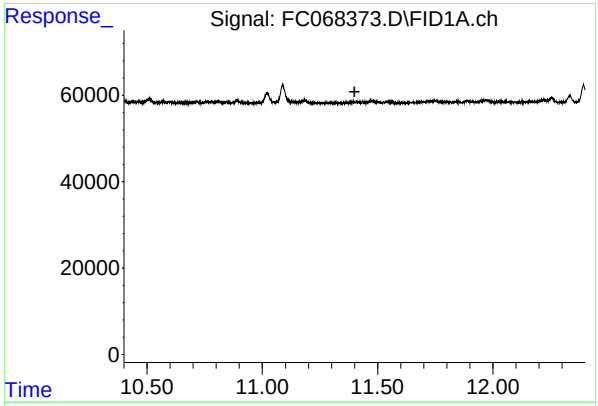
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068373.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 18:27
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
ENV-102-GW01

Integration File: autoint1.e
Quant Time: Mar 05 22:33:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

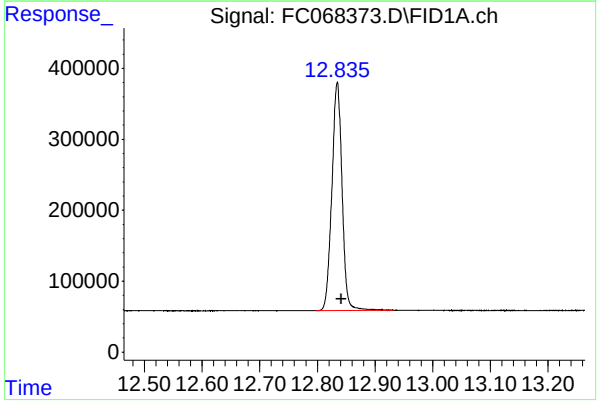




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
ENV-102-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 12.834 min
Delta R.T.: -0.007 min
Response: 3961758
Conc: 35.22 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068373.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 18:27
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.358	2.344	2.407	VV	321	4211	0.10%	0.045%
2	2.430	2.407	2.453	PV	4394	34350	0.85%	0.366%
3	2.471	2.453	2.489	VV	2068	17353	0.43%	0.185%
4	2.497	2.489	2.551	VV	254	4354	0.11%	0.046%
5	2.557	2.551	2.570	VV	128	1198	0.03%	0.013%
6	2.590	2.570	2.628	VV	221	3861	0.10%	0.041%
7	2.654	2.628	2.718	VV	544	10618	0.26%	0.113%
8	2.742	2.718	2.772	VV	1729	26874	0.67%	0.286%
9	2.787	2.772	2.821	VV	1091	14509	0.36%	0.155%
10	2.837	2.821	2.904	VV	1277	19078	0.47%	0.203%
11	2.918	2.904	2.934	VV	217	3019	0.08%	0.032%
12	2.960	2.934	3.018	VV	1181	16235	0.40%	0.173%
13	3.045	3.018	3.079	VV	168	3437	0.09%	0.037%
14	3.085	3.079	3.114	PV	112	1432	0.04%	0.015%
15	3.150	3.114	3.188	VV	122	2728	0.07%	0.029%
16	3.206	3.188	3.249	VV	255	4504	0.11%	0.048%
17	3.260	3.249	3.338	VV	144	4261	0.11%	0.045%
18	3.351	3.338	3.422	VV	77	3630	0.09%	0.039%
19	3.432	3.422	3.451	PV	60	644	0.02%	0.007%
20	3.497	3.451	3.516	PV	1556	17025	0.42%	0.181%
21	3.525	3.516	3.560	VV	288	2896	0.07%	0.031%
22	3.572	3.560	3.598	VV	167	2371	0.06%	0.025%
23	3.621	3.598	3.642	VV	179	2617	0.07%	0.028%
24	3.657	3.642	3.671	VV	102	1311	0.03%	0.014%
25	3.693	3.671	3.748	VV	259	6693	0.17%	0.071%
26	3.773	3.748	3.831	VV	319	6815	0.17%	0.073%
27	3.865	3.831	3.878	PV	407	5136	0.13%	0.055%
28	3.893	3.878	3.932	VV	720	12372	0.31%	0.132%
29	3.958	3.932	3.993	VV	245	4517	0.11%	0.048%
30	4.036	3.993	4.067	VV	793	14945	0.37%	0.159%
31	4.083	4.067	4.093	VV	186	2608	0.06%	0.028%
32	4.103	4.093	4.140	VV	188	4255	0.11%	0.045%
33	4.156	4.140	4.165	VV	185	2355	0.06%	0.025%
34	4.180	4.165	4.209	VV	269	4559	0.11%	0.049%
35	4.265	4.209	4.340	VV	673	26108	0.65%	0.278%
36	4.362	4.340	4.388	VV	597	10867	0.27%	0.116%

rteres

37	4.426	4.388	4.466	VV	1053	20827	0.52%	0.222%
38	4.481	4.466	4.495	VV	725	8919	0.22%	0.095%
39	4.511	4.495	4.609	VV	1273	20246	0.50%	0.216%
40	4.622	4.609	4.774	VV	207	9980	0.25%	0.106%
41	4.785	4.774	4.794	PV	99	827	0.02%	0.009%
42	4.808	4.794	4.844	VV	185	3148	0.08%	0.034%
43	4.887	4.844	4.921	VV	3113	41181	1.02%	0.439%
44	4.945	4.921	4.991	VV	746	12796	0.32%	0.136%
45	4.996	4.991	5.064	VV	157	4198	0.10%	0.045%
46	5.080	5.064	5.094	VV	192	2326	0.06%	0.025%
47	5.107	5.094	5.144	VV	118	3114	0.08%	0.033%
48	5.161	5.144	5.186	VV	250	3795	0.09%	0.040%
49	5.194	5.186	5.208	VV	109	861	0.02%	0.009%
50	5.253	5.208	5.269	PV	145	3620	0.09%	0.039%
51	5.292	5.269	5.311	VV	429	7578	0.19%	0.081%
52	5.329	5.311	5.364	VV	1051	14393	0.36%	0.153%
53	5.384	5.364	5.398	VV	239	3055	0.08%	0.033%
54	5.407	5.398	5.438	VV	181	2358	0.06%	0.025%
55	5.468	5.438	5.498	VV	301	7148	0.18%	0.076%
56	5.502	5.498	5.546	VV	223	4003	0.10%	0.043%
57	5.575	5.546	5.605	VV	235	5216	0.13%	0.056%
58	5.622	5.605	5.644	VV	182	2646	0.07%	0.028%
59	5.656	5.644	5.681	VV	227	3051	0.08%	0.033%
60	5.689	5.681	5.718	VV	98	2261	0.06%	0.024%
61	5.743	5.718	5.764	VV	168	2966	0.07%	0.032%
62	5.793	5.764	5.808	PV	178	3562	0.09%	0.038%
63	5.846	5.808	5.874	VV	357	8955	0.22%	0.095%
64	5.886	5.874	5.899	VV	348	4270	0.11%	0.046%
65	5.928	5.899	5.971	VV	598	12160	0.30%	0.130%
66	5.990	5.971	6.031	VV	461	9461	0.24%	0.101%
67	6.060	6.031	6.082	VV	320	6446	0.16%	0.069%
68	6.103	6.082	6.125	VV	157	2779	0.07%	0.030%
69	6.154	6.125	6.188	PV	131	3524	0.09%	0.038%
70	6.194	6.188	6.223	VV	90	1600	0.04%	0.017%
71	6.268	6.223	6.331	VV	4629	64181	1.59%	0.684%
72	6.348	6.331	6.371	VV	660	8587	0.21%	0.092%
73	6.384	6.371	6.396	VV	362	4374	0.11%	0.047%
74	6.415	6.396	6.434	VV	816	10753	0.27%	0.115%
75	6.447	6.434	6.466	VV	438	5101	0.13%	0.054%
76	6.487	6.466	6.534	VV	521	7126	0.18%	0.076%
77	6.541	6.534	6.564	VV	156	1431	0.04%	0.015%
78	6.578	6.564	6.624	VV	124	3550	0.09%	0.038%
79	6.628	6.624	6.665	VV	173	2879	0.07%	0.031%
80	6.705	6.665	6.733	VV	610	10367	0.26%	0.110%
81	6.759	6.733	6.778	VV	621	10491	0.26%	0.112%
82	6.808	6.778	6.852	VV	710	19225	0.48%	0.205%
83	6.885	6.852	6.912	VV	916	16003	0.40%	0.171%
84	6.922	6.912	6.944	VV	279	3808	0.09%	0.041%
85	6.968	6.944	7.012	VV	330	6547	0.16%	0.070%
86	7.045	7.012	7.077	VV	2263	26648	0.66%	0.284%
87	7.104	7.077	7.141	VV	355	8856	0.22%	0.094%
88	7.154	7.141	7.165	VV	367	4261	0.11%	0.045%
89	7.189	7.165	7.231	VV	1436	24612	0.61%	0.262%

rteres

90	7.247	7.231	7.262	VV	409	5543	0.14%	0.059%
91	7.279	7.262	7.334	VV	418	8498	0.21%	0.091%
92	7.355	7.334	7.381	VV	172	1812	0.05%	0.019%
93	7.397	7.381	7.424	VV	114	1782	0.04%	0.019%
94	7.445	7.424	7.498	VV	808	9790	0.24%	0.104%
95	7.540	7.498	7.578	VV	241	6944	0.17%	0.074%
96	7.610	7.578	7.630	VV	324	6466	0.16%	0.069%
97	7.642	7.630	7.650	VV	179	1830	0.05%	0.020%
98	7.660	7.650	7.693	VV	200	3248	0.08%	0.035%
99	7.707	7.693	7.730	VV	269	2866	0.07%	0.031%
100	7.752	7.730	7.787	PV	939	12781	0.32%	0.136%
101	7.807	7.787	7.861	VV	1326	18598	0.46%	0.198%
102	7.873	7.861	7.894	VV	219	1821	0.05%	0.019%
103	7.909	7.894	7.941	VV	191	3137	0.08%	0.033%
104	7.964	7.941	7.983	VV	837	9966	0.25%	0.106%
105	7.994	7.983	8.027	VV	275	5009	0.12%	0.053%
106	8.055	8.027	8.126	VV	6284	90373	2.25%	0.963%
107	8.155	8.126	8.179	VV	564	12384	0.31%	0.132%
108	8.200	8.179	8.222	VV	537	9356	0.23%	0.100%
109	8.245	8.222	8.268	VV	414	7119	0.18%	0.076%
110	8.285	8.268	8.334	VV	466	6459	0.16%	0.069%
111	8.398	8.334	8.457	PV	734	29421	0.73%	0.314%
112	8.466	8.457	8.491	VV	440	7406	0.18%	0.079%
113	8.510	8.491	8.528	VV	494	9655	0.24%	0.103%
114	8.541	8.528	8.573	VV	482	12150	0.30%	0.129%
115	8.593	8.573	8.629	VV	843	18648	0.46%	0.199%
116	8.654	8.629	8.684	VV	408	6540	0.16%	0.070%
117	8.704	8.684	8.728	VV	400	5180	0.13%	0.055%
118	8.773	8.728	8.792	VV	1341	20108	0.50%	0.214%
119	8.810	8.792	8.822	VV	849	11608	0.29%	0.124%
120	8.829	8.822	8.857	VV	612	11176	0.28%	0.119%
121	8.886	8.857	8.940	VV	2124	40644	1.01%	0.433%
122	8.960	8.940	8.983	VV	569	8411	0.21%	0.090%
123	9.009	8.983	9.038	VV	448	7127	0.18%	0.076%
124	9.064	9.038	9.098	VV	297	7539	0.19%	0.080%
125	9.172	9.098	9.210	VV	626	20785	0.52%	0.222%
126	9.238	9.210	9.275	VV	936	17375	0.43%	0.185%
127	9.292	9.275	9.320	VV	440	7381	0.18%	0.079%
128	9.341	9.320	9.351	VV	240	3416	0.08%	0.036%
129	9.380	9.351	9.407	VV	687	11428	0.28%	0.122%
130	9.431	9.407	9.481	VV	1489	23450	0.58%	0.250%
131	9.486	9.481	9.504	VV	278	2961	0.07%	0.032%
132	9.521	9.504	9.547	VV	263	5124	0.13%	0.055%
133	9.573	9.547	9.624	VV	692	15012	0.37%	0.160%
134	9.651	9.624	9.704	VV	3679	59765	1.48%	0.637%
135	9.720	9.704	9.786	VV	533	19219	0.48%	0.205%
136	9.797	9.786	9.807	VV	342	3361	0.08%	0.036%
137	9.820	9.807	9.881	VV	318	6854	0.17%	0.073%
138	9.927	9.881	9.948	VV	287	6569	0.16%	0.070%
139	9.964	9.948	9.991	VV	408	7393	0.18%	0.079%
140	10.036	9.991	10.058	VV	626	15564	0.39%	0.166%
141	10.084	10.058	10.101	VV	439	8859	0.22%	0.094%

rteres

142	10.127	10.101	10.144	VV	454	8531	0.21%	0.091%
143	10.155	10.144	10.194	VV	369	7105	0.18%	0.076%
144	10.249	10.194	10.264	VV	458	11312	0.28%	0.121%
145	10.272	10.264	10.298	VV	382	6289	0.16%	0.067%
146	10.330	10.298	10.351	VV	551	13005	0.32%	0.139%
147	10.391	10.351	10.422	VV	739	20867	0.52%	0.222%
148	10.442	10.422	10.455	VV	450	7428	0.18%	0.079%
149	10.467	10.455	10.482	VV	425	5966	0.15%	0.064%
150	10.510	10.482	10.551	VV	1078	23250	0.58%	0.248%
151	10.570	10.551	10.585	VV	367	6401	0.16%	0.068%
152	10.602	10.585	10.661	VV	384	11005	0.27%	0.117%
153	10.672	10.661	10.690	VV	278	3857	0.10%	0.041%
154	10.718	10.690	10.729	VV	313	6213	0.15%	0.066%
155	10.779	10.729	10.791	VV	397	11456	0.28%	0.122%
156	10.808	10.791	10.828	VV	535	9009	0.22%	0.096%
157	10.843	10.828	10.869	VV	328	6011	0.15%	0.064%
158	10.891	10.869	10.954	VV	717	14107	0.35%	0.150%
159	10.963	10.954	10.969	VV	147	1131	0.03%	0.012%
160	11.020	10.969	11.055	VV	2368	40870	1.02%	0.436%
161	11.088	11.055	11.161	VV	4265	75130	1.87%	0.801%
162	11.184	11.161	11.223	VV	715	13392	0.33%	0.143%
163	11.237	11.223	11.281	VV	183	4079	0.10%	0.043%
164	11.289	11.281	11.347	VV	178	4359	0.11%	0.046%
165	11.409	11.347	11.424	PV	318	9883	0.25%	0.105%
166	11.473	11.424	11.521	VV	569	18063	0.45%	0.192%
167	11.543	11.521	11.627	VV	352	11405	0.28%	0.122%
168	11.751	11.627	11.784	VV	552	28212	0.70%	0.301%
169	11.798	11.784	11.824	VV	327	6073	0.15%	0.065%
170	11.839	11.824	11.864	VV	330	5470	0.14%	0.058%
171	11.885	11.864	11.931	VV	528	12254	0.30%	0.131%
172	11.971	11.931	12.008	VV	668	20010	0.50%	0.213%
173	12.028	12.008	12.039	VV	349	5085	0.13%	0.054%
174	12.061	12.039	12.079	VV	306	6265	0.16%	0.067%
175	12.086	12.079	12.111	VV	226	3361	0.08%	0.036%
176	12.125	12.111	12.138	VV	272	3108	0.08%	0.033%
177	12.160	12.138	12.181	VV	310	7174	0.18%	0.076%
178	12.220	12.181	12.236	VV	701	15688	0.39%	0.167%
179	12.255	12.236	12.302	VV	1285	20167	0.50%	0.215%
180	12.333	12.302	12.364	VV	1691	24438	0.61%	0.260%
181	12.393	12.364	12.421	VV	4151	54257	1.35%	0.578%
182	12.436	12.421	12.473	VV	345	6478	0.16%	0.069%
183	12.486	12.473	12.492	VV	225	1921	0.05%	0.020%
184	12.512	12.492	12.607	VV	274	8565	0.21%	0.091%
185	12.647	12.607	12.674	PV	212	5310	0.13%	0.057%
186	12.681	12.674	12.693	VV	151	1417	0.04%	0.015%
187	12.711	12.693	12.730	VV	185	3100	0.08%	0.033%
188	12.755	12.730	12.796	VV	300	8380	0.21%	0.089%
189	12.834	12.796	12.981	VV	321662	4024839	100.00%	42.894%
190	13.000	12.981	13.054	VV	795	25511	0.63%	0.272%
191	13.071	13.054	13.094	VV	557	10718	0.27%	0.114%
192	13.112	13.094	13.150	VV	472	12639	0.31%	0.135%
193	13.162	13.150	13.174	VV	357	4180	0.10%	0.045%
194	13.209	13.174	13.241	VV	441	14225	0.35%	0.152%

rteres

195	13.284	13.241	13.334	VV	550	21043	0.52%	0.224%
196	13.352	13.334	13.367	VV	276	4762	0.12%	0.051%
197	13.437	13.367	13.481	VV	497	22905	0.57%	0.244%
198	13.539	13.481	13.564	VV	1245	27586	0.69%	0.294%
199	13.591	13.564	13.720	VV	2719	60810	1.51%	0.648%
200	13.728	13.720	13.738	VV	250	2089	0.05%	0.022%
201	13.761	13.738	13.776	VV	194	3778	0.09%	0.040%
202	13.786	13.776	13.790	VV	177	1227	0.03%	0.013%
203	13.834	13.790	13.874	VV	336	12684	0.32%	0.135%
204	13.897	13.874	13.914	VV	280	5786	0.14%	0.062%
205	13.924	13.914	13.942	VV	312	3836	0.10%	0.041%
206	13.962	13.942	13.981	VV	273	5228	0.13%	0.056%
207	13.984	13.981	14.004	VV	260	3152	0.08%	0.034%
208	14.032	14.004	14.138	VV	779	33266	0.83%	0.355%
209	14.157	14.138	14.184	VV	416	8839	0.22%	0.094%
210	14.202	14.184	14.237	VV	320	9144	0.23%	0.097%
211	14.295	14.237	14.341	VV	465	22077	0.55%	0.235%
212	14.347	14.341	14.372	VV	354	5518	0.14%	0.059%
213	14.398	14.372	14.422	VV	337	8356	0.21%	0.089%
214	14.459	14.422	14.487	VV	373	11002	0.27%	0.117%
215	14.503	14.487	14.523	VV	387	6141	0.15%	0.065%
216	14.542	14.523	14.604	VV	341	10807	0.27%	0.115%
217	14.649	14.604	14.668	VV	1077	19645	0.49%	0.209%
218	14.692	14.668	14.783	VV	2063	47725	1.19%	0.509%
219	14.815	14.783	14.834	VV	209	4625	0.11%	0.049%
220	14.855	14.834	14.884	VV	332	6235	0.15%	0.066%
221	14.891	14.884	14.899	VV	139	1237	0.03%	0.013%
222	14.924	14.899	14.985	VV	188	6715	0.17%	0.072%
223	14.996	14.985	15.022	VV	136	2232	0.06%	0.024%
224	15.115	15.022	15.172	VV	253	11704	0.29%	0.125%
225	15.220	15.172	15.288	VV	346	11303	0.28%	0.120%
226	15.298	15.288	15.306	VV	125	966	0.02%	0.010%
227	15.336	15.306	15.367	VV	152	4200	0.10%	0.045%
228	15.378	15.367	15.391	VV	153	1840	0.05%	0.020%
229	15.405	15.391	15.428	VV	200	2543	0.06%	0.027%
230	15.446	15.428	15.465	VV	140	1892	0.05%	0.020%
231	15.500	15.465	15.634	VV	284	14723	0.37%	0.157%
232	15.712	15.634	15.818	VV	1493	42259	1.05%	0.450%
233	15.848	15.818	15.868	VV	167	2704	0.07%	0.029%
234	15.895	15.868	15.952	VV	115	3852	0.10%	0.041%
235	16.029	15.952	16.059	PV	125	3767	0.09%	0.040%
236	16.087	16.059	16.140	PV	115	3620	0.09%	0.039%
237	16.198	16.140	16.224	VV	293	8026	0.20%	0.086%
238	16.251	16.224	16.300	VV	230	6267	0.16%	0.067%
239	16.407	16.300	16.454	VV	212	8877	0.22%	0.095%
240	16.552	16.454	16.594	VV	282	10048	0.25%	0.107%
241	16.659	16.594	16.728	VV	1446	39888	0.99%	0.425%
242	16.735	16.728	16.764	VV	170	2176	0.05%	0.023%
243	16.772	16.764	16.798	VV	76	1442	0.04%	0.015%
244	16.836	16.798	16.868	VV	113	2627	0.07%	0.028%
245	16.878	16.868	16.904	VV	80	1041	0.03%	0.011%
246	16.953	16.904	16.998	PV	215	5387	0.13%	0.057%

rteres

247	17.111	16.998	17.181	VV	720	19588	0.49%	0.209%
248	17.208	17.181	17.257	VV	227	5852	0.15%	0.062%
249	17.302	17.257	17.348	VV	205	6723	0.17%	0.072%
250	17.546	17.348	17.594	PV	1823	51277	1.27%	0.546%
251	17.638	17.594	17.654	VV	232	6416	0.16%	0.068%
252	17.707	17.654	17.783	VV	196	8763	0.22%	0.093%
253	17.829	17.783	17.881	PV	226	5921	0.15%	0.063%
254	17.967	17.881	18.038	VV	1151	24116	0.60%	0.257%
255	18.226	18.038	18.264	VV	273	8211	0.20%	0.088%
256	18.377	18.264	18.457	VV	1849	46949	1.17%	0.500%
257	18.774	18.457	18.811	PV	1053	19939	0.50%	0.212%
258	18.951	18.811	18.977	VV	249	6418	0.16%	0.068%
259	19.160	18.977	19.223	PV	1526	40440	1.00%	0.431%
260	19.465	19.223	19.504	VV	576	41753	1.04%	0.445%
261	19.536	19.504	19.584	VV	1113	29071	0.72%	0.310%
262	19.901	19.584	19.931	VV	1861	155389	3.86%	1.656%
263	19.961	19.931	19.998	VV	1212	44773	1.11%	0.477%
264	20.258	19.998	20.285	VV	2268	264129	6.56%	2.815%
265	20.432	20.285	20.461	VV	2777	247275	6.14%	2.635%
266	20.611	20.461	20.666	VV	3452	353097	8.77%	3.763%
267	20.771	20.666	20.898	VV	2954	386304	9.60%	4.117%
268	20.931	20.898	20.980	VV	2536	122426	3.04%	1.305%
269	21.024	20.980	21.058	VV	2366	106642	2.65%	1.137%
270	21.185	21.058	21.228	VV	2017	209074	5.19%	2.228%
271	21.239	21.228	21.261	VV	1874	36850	0.92%	0.393%
272	21.279	21.261	21.346	VV	1818	87303	2.17%	0.930%
273	21.367	21.346	21.408	VV	1539	56427	1.40%	0.601%
274	21.464	21.408	21.594	VV	1729	147916	3.68%	1.576%
275	21.617	21.594	21.632	VV	922	20562	0.51%	0.219%
276	21.650	21.632	21.671	VV	868	19705	0.49%	0.210%
277	21.814	21.671	21.881	VV	637	78180	1.94%	0.833%
278	21.906	21.881	21.921	VV	397	8519	0.21%	0.091%
279	21.989	21.921	22.058	VV	285	16883	0.42%	0.180%
			Sum of corrected areas:			9383188		

Aliphatic EPH 021125.M Wed Mar 05 23:12:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049163.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 18:27
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
ENV-102-GW01

Integration File: autoint1.e
Quant Time: Mar 05 23:30:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	8320671	58.142 ug/ml
Spiked Amount 50.000		Recovery = 116.28%	
6) S 2-Flurobiphenyl (SURR)	8.202	5210148	59.266 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.53%	
11) S ortho-Terphenyl (SURR)	11.235	5636818	34.844 ug/ml
Spiked Amount 50.000		Recovery = 69.69%	
Target Compounds			

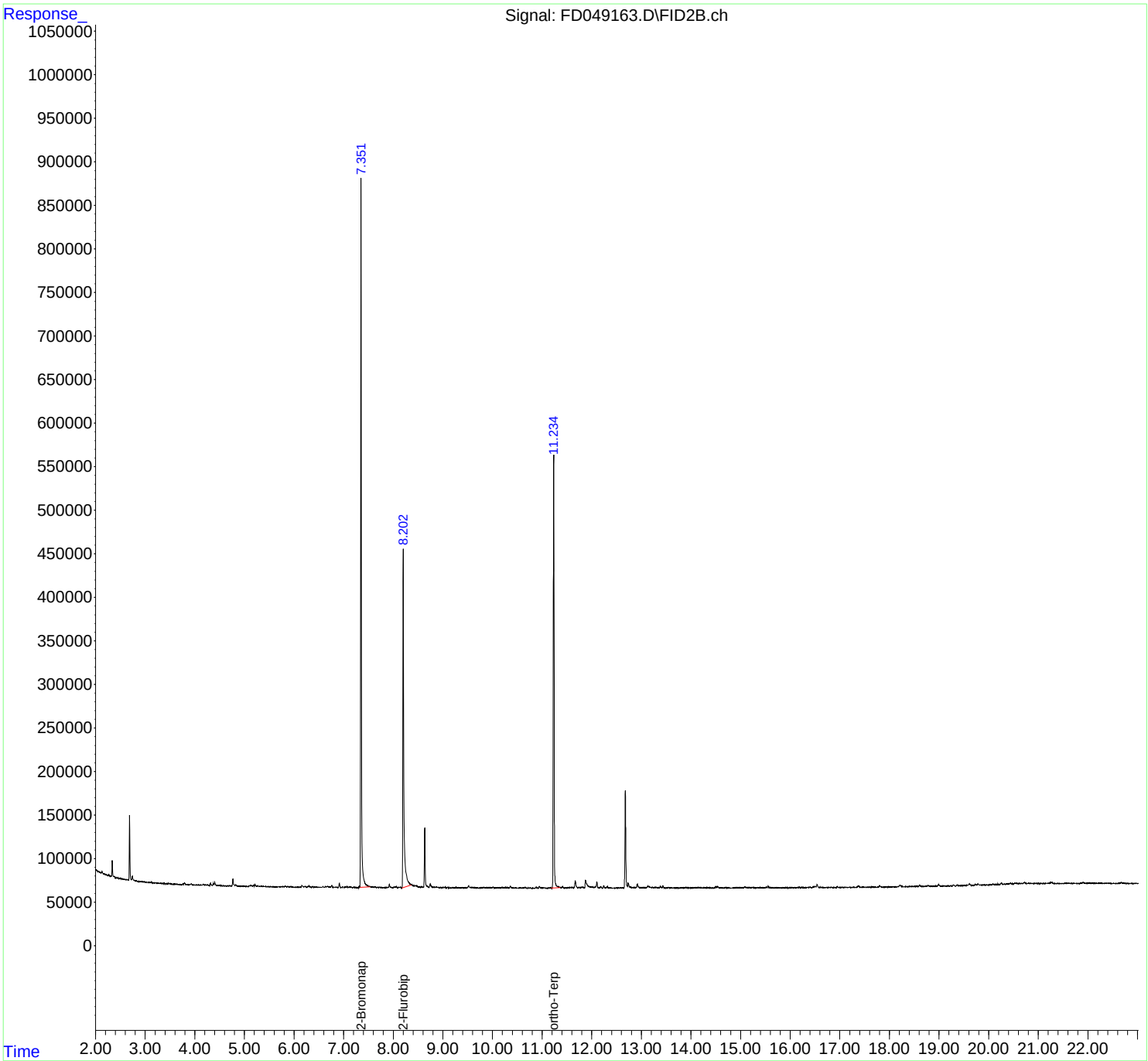
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049163.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 18:27
Operator : YP/AJ
Sample : Q1488-13
Misc :
ALS Vial : 65 Sample Multiplier: 1

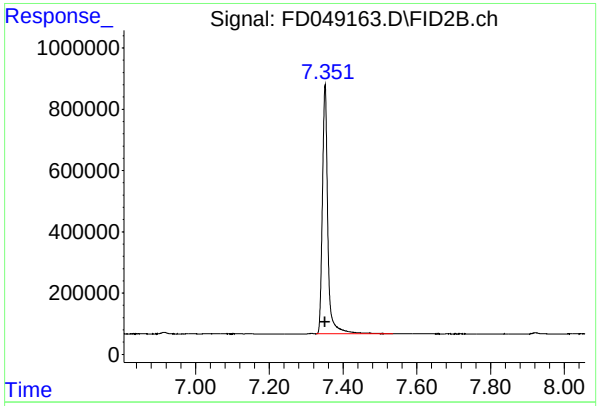
Instrument :
FID_D
ClientSampleId :
ENV-102-GW01

Integration File: autoint1.e
Quant Time: Mar 05 23:30:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

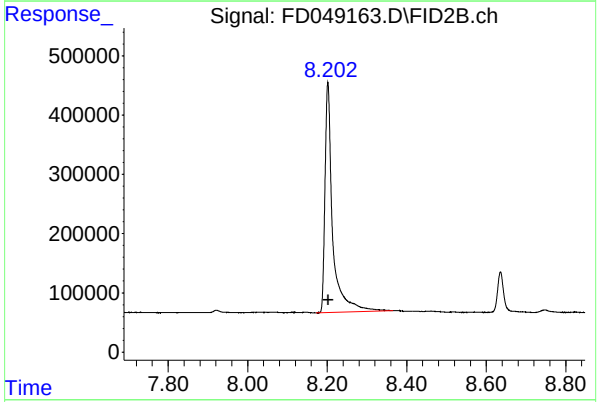


Instrument :
FID_D
ClientSampleId :
ENV-102-GW01



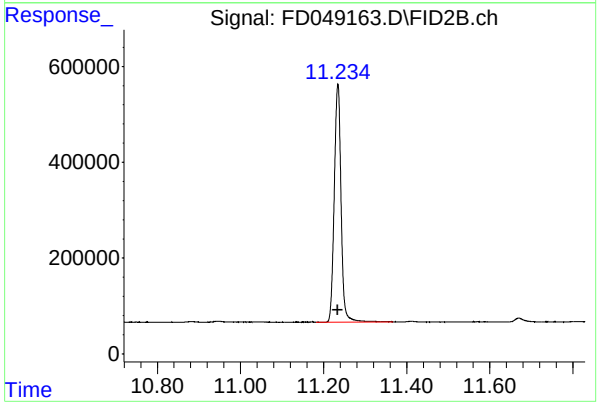
#4 2-Bromonaphthalene (SURR)

R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 8320671
Conc: 58.14 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5210148
Conc: 59.27 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.001 min
Response: 5636818
Conc: 34.84 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049163.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 18:27
Sample : Q1488-13
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.054	4.042	4.090	BV	200	4165	0.05%	0.016%
2	4.103	4.090	4.120	VV	309	3015	0.04%	0.011%
3	4.127	4.120	4.136	VV	285	2107	0.03%	0.008%
4	4.144	4.136	4.153	VV	246	2035	0.02%	0.008%
5	4.168	4.153	4.206	VV	1455	24366	0.29%	0.091%
6	4.211	4.206	4.218	VV	537	3098	0.04%	0.012%
7	4.228	4.218	4.235	VV	473	3934	0.05%	0.015%
8	4.248	4.235	4.259	VV	629	6789	0.08%	0.025%
9	4.266	4.259	4.295	VV	652	8635	0.10%	0.032%
10	4.319	4.295	4.345	VV	2702	35005	0.42%	0.130%
11	4.348	4.345	4.356	VV	540	3136	0.04%	0.012%
12	4.374	4.356	4.386	VV	2316	25426	0.30%	0.095%
13	4.402	4.386	4.454	VV	4045	58861	0.70%	0.219%
14	4.462	4.454	4.478	VV	427	4482	0.05%	0.017%
15	4.514	4.478	4.567	VV	922	19542	0.23%	0.073%
16	4.584	4.567	4.604	VV	484	6006	0.07%	0.022%
17	4.625	4.620	4.671	PV	153	2160	0.03%	0.008%
18	4.694	4.671	4.721	PV	614	8125	0.10%	0.030%
19	4.731	4.721	4.745	VV	258	2745	0.03%	0.010%
20	4.769	4.745	4.811	VV	8555	114389	1.36%	0.426%
21	4.826	4.811	4.903	VV	1776	34220	0.41%	0.127%
22	4.917	4.903	4.940	VV	286	5553	0.07%	0.021%
23	4.948	4.940	4.962	VV	252	3105	0.04%	0.012%
24	4.968	4.962	5.025	VV	406	8916	0.11%	0.033%
25	5.063	5.025	5.075	PV	340	5124	0.06%	0.019%
26	5.117	5.075	5.173	VV	1152	48159	0.57%	0.179%
27	5.187	5.173	5.199	VV	1456	17000	0.20%	0.063%
28	5.214	5.199	5.259	VV	3029	45535	0.54%	0.170%
29	5.273	5.259	5.292	VV	1065	14517	0.17%	0.054%
30	5.307	5.292	5.312	VV	498	5331	0.06%	0.020%
31	5.347	5.312	5.387	VV	780	21612	0.26%	0.080%
32	5.390	5.387	5.397	VV	369	1803	0.02%	0.007%
33	5.403	5.397	5.417	VV	422	3841	0.05%	0.014%
34	5.426	5.417	5.448	VV	464	6077	0.07%	0.023%
35	5.474	5.448	5.501	VV	505	9708	0.12%	0.036%
36	5.519	5.501	5.526	VV	469	4628	0.05%	0.017%

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37	5.531	5.526	5.562	VV	378	4186	0.05%	0.016%
38	5.577	5.562	5.596	VV	308	3765	0.04%	0.014%
39	5.652	5.645	5.657	VV	276	1414	0.02%	0.005%
40	5.660	5.657	5.717	VV	285	8047	0.10%	0.030%
41	5.727	5.717	5.755	VV	405	6792	0.08%	0.025%
42	5.781	5.755	5.803	VV	568	10659	0.13%	0.040%
43	5.823	5.803	5.852	VV	1252	20791	0.25%	0.077%
44	5.875	5.852	5.896	VV	684	14726	0.17%	0.055%
45	5.900	5.896	5.904	VV	427	1705	0.02%	0.006%
46	5.907	5.904	5.918	VV	327	2503	0.03%	0.009%
47	5.936	5.918	5.955	VV	692	11695	0.14%	0.044%
48	5.960	5.955	5.964	VV	552	2388	0.03%	0.009%
49	5.966	5.964	5.973	VV	400	1413	0.02%	0.005%
50	5.977	5.973	5.988	VV	207	1465	0.02%	0.005%
51	5.999	5.988	6.011	VV	177	1781	0.02%	0.007%
52	6.030	6.011	6.055	VV	282	3304	0.04%	0.012%
53	6.067	6.055	6.094	VV	296	3232	0.04%	0.012%
54	6.116	6.102	6.130	PV	272	2084	0.02%	0.008%
55	6.160	6.130	6.198	VV	2182	40110	0.48%	0.149%
56	6.224	6.198	6.250	VV	1456	23591	0.28%	0.088%
57	6.269	6.250	6.281	VV	913	10119	0.12%	0.038%
58	6.297	6.281	6.324	VV	1846	27943	0.33%	0.104%
59	6.328	6.324	6.351	VV	620	6837	0.08%	0.025%
60	6.371	6.351	6.396	VV	1131	15249	0.18%	0.057%
61	6.400	6.396	6.433	VV	356	4958	0.06%	0.018%
62	6.445	6.433	6.450	VV	342	2063	0.02%	0.008%
63	6.459	6.450	6.476	VV	258	3116	0.04%	0.012%
64	6.496	6.476	6.501	PV	285	2474	0.03%	0.009%
65	6.522	6.501	6.532	VV	287	2798	0.03%	0.010%
66	6.549	6.532	6.562	VV	236	2452	0.03%	0.009%
67	6.582	6.562	6.605	VV	1232	15763	0.19%	0.059%
68	6.610	6.605	6.615	VV	291	1421	0.02%	0.005%
69	6.632	6.615	6.650	VV	1087	15893	0.19%	0.059%
70	6.654	6.650	6.660	VV	852	4844	0.06%	0.018%
71	6.680	6.660	6.697	VV	1714	25875	0.31%	0.096%
72	6.707	6.697	6.735	VV	967	14911	0.18%	0.056%
73	6.760	6.735	6.790	VV	2384	35442	0.42%	0.132%
74	6.793	6.790	6.818	VV	329	4308	0.05%	0.016%
75	6.830	6.818	6.835	VV	377	2631	0.03%	0.010%
76	6.851	6.835	6.876	VV	538	8872	0.11%	0.033%
77	6.914	6.876	6.958	VV	5106	65186	0.77%	0.243%
78	6.962	6.958	6.965	VV	316	1138	0.01%	0.004%
79	6.987	6.965	7.012	VV	938	15032	0.18%	0.056%
80	7.028	7.012	7.054	VV	895	13476	0.16%	0.050%
81	7.066	7.054	7.101	VV	1352	20644	0.25%	0.077%
82	7.117	7.101	7.130	VV	851	10570	0.13%	0.039%
83	7.148	7.130	7.187	VV	1116	15802	0.19%	0.059%
84	7.202	7.187	7.210	VV	336	2483	0.03%	0.009%
85	7.216	7.210	7.223	VV	305	1652	0.02%	0.006%
86	7.227	7.223	7.242	VV	220	1855	0.02%	0.007%
87	7.251	7.242	7.279	PV	259	3046	0.04%	0.011%
88	7.283	7.279	7.298	VV	181	1110	0.01%	0.004%
89	7.314	7.298	7.327	VV	1801	17733	0.21%	0.066%

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90	7.351	7.327	7.542	VV	815948	8422324	100.00%	31.357%
91	7.546	7.542	7.569	VV	1180	17218	0.20%	0.064%
92	7.583	7.569	7.613	VV	1079	22443	0.27%	0.084%
93	7.627	7.613	7.653	VV	1444	23061	0.27%	0.086%
94	7.658	7.653	7.670	VV	532	4616	0.05%	0.017%
95	7.683	7.670	7.710	VV	744	13162	0.16%	0.049%
96	7.719	7.710	7.728	VV	695	6183	0.07%	0.023%
97	7.731	7.728	7.740	VV	656	3560	0.04%	0.013%
98	7.747	7.740	7.753	VV	483	2659	0.03%	0.010%
99	7.756	7.753	7.780	VV	386	4472	0.05%	0.017%
100	7.789	7.780	7.795	VV	355	2443	0.03%	0.009%
101	7.804	7.800	7.824	VV	297	3381	0.04%	0.013%
102	7.837	7.824	7.862	VV	592	9287	0.11%	0.035%
103	7.870	7.862	7.890	VV	477	6446	0.08%	0.024%
104	7.894	7.890	7.900	VV	555	2711	0.03%	0.010%
105	7.922	7.900	7.960	VV	4259	59205	0.70%	0.220%
106	7.965	7.960	7.982	VV	548	4971	0.06%	0.019%
107	7.986	7.982	7.991	VV	283	1277	0.02%	0.005%
108	8.018	7.991	8.041	VV	922	20408	0.24%	0.076%
109	8.046	8.041	8.054	VV	792	5829	0.07%	0.022%
110	8.068	8.054	8.098	VV	1082	16462	0.20%	0.061%
111	8.113	8.098	8.132	VV	878	11668	0.14%	0.043%
112	8.146	8.132	8.172	VV	1102	13150	0.16%	0.049%
113	8.202	8.172	8.365	PV	389033	5421321	64.37%	20.184%
114	8.377	8.365	8.410	VV	3940	86316	1.02%	0.321%
115	8.416	8.410	8.442	VV	2662	48253	0.57%	0.180%
116	8.461	8.442	8.503	VV	2942	78760	0.94%	0.293%
117	8.515	8.503	8.540	VV	1527	26806	0.32%	0.100%
118	8.547	8.540	8.551	VV	990	5625	0.07%	0.021%
119	8.568	8.551	8.606	VV	1311	32176	0.38%	0.120%
120	8.636	8.606	8.719	VV	69336	796697	9.46%	2.966%
121	8.748	8.719	8.807	VV	5025	107144	1.27%	0.399%
122	8.822	8.807	8.845	VV	1434	22982	0.27%	0.086%
123	8.870	8.845	8.904	VV	1210	32404	0.38%	0.121%
124	8.907	8.904	8.911	VV	642	2423	0.03%	0.009%
125	8.934	8.911	8.942	VV	755	12633	0.15%	0.047%
126	8.949	8.942	8.997	VV	801	19536	0.23%	0.073%
127	9.003	8.997	9.005	VV	622	2157	0.03%	0.008%
128	9.021	9.005	9.045	VV	972	18180	0.22%	0.068%
129	9.048	9.045	9.074	VV	1024	7709	0.09%	0.029%
130	9.099	9.074	9.134	VV	1130	21409	0.25%	0.080%
131	9.137	9.134	9.142	VV	287	1198	0.01%	0.004%
132	9.147	9.142	9.157	VV	331	2245	0.03%	0.008%
133	9.163	9.157	9.175	VV	345	3175	0.04%	0.012%
134	9.204	9.175	9.228	VV	406	9865	0.12%	0.037%
135	9.249	9.228	9.287	VV	820	14563	0.17%	0.054%
136	9.302	9.287	9.324	VV	570	7347	0.09%	0.027%
137	9.342	9.324	9.356	VV	644	7646	0.09%	0.028%
138	9.375	9.356	9.385	VV	543	6897	0.08%	0.026%
139	9.390	9.385	9.407	VV	508	5077	0.06%	0.019%
140	9.411	9.407	9.428	VV	471	3205	0.04%	0.012%
141	9.449	9.428	9.475	VV	527	6879	0.08%	0.026%

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142	9.520	9.475	9.555	VV	2773	55959	0.66%	0.208%
143	9.558	9.555	9.571	VV	849	6880	0.08%	0.026%
144	9.582	9.571	9.639	VV	918	28812	0.34%	0.107%
145	9.650	9.639	9.675	VV	575	10088	0.12%	0.038%
146	9.690	9.675	9.701	VV	418	4437	0.05%	0.017%
147	9.706	9.701	9.739	VV	403	4922	0.06%	0.018%
148	9.787	9.739	9.799	VV	583	12771	0.15%	0.048%
149	9.820	9.799	9.846	VV	890	15650	0.19%	0.058%
150	9.856	9.846	9.872	VV	318	3626	0.04%	0.013%
151	9.890	9.872	9.918	VV	814	14570	0.17%	0.054%
152	9.936	9.918	9.947	VV	750	9544	0.11%	0.036%
153	9.960	9.947	9.982	VV	617	10636	0.13%	0.040%
154	10.012	9.982	10.041	VV	1587	24886	0.30%	0.093%
155	10.101	10.041	10.121	VV	764	19035	0.23%	0.071%
156	10.135	10.121	10.160	VV	596	9099	0.11%	0.034%
157	10.188	10.160	10.206	VV	1204	18724	0.22%	0.070%
158	10.220	10.206	10.235	VV	614	9632	0.11%	0.036%
159	10.260	10.235	10.277	VV	1002	17657	0.21%	0.066%
160	10.295	10.277	10.314	VV	852	11694	0.14%	0.044%
161	10.324	10.314	10.340	VV	699	8026	0.10%	0.030%
162	10.364	10.340	10.392	VV	2271	33577	0.40%	0.125%
163	10.410	10.392	10.423	VV	448	6394	0.08%	0.024%
164	10.428	10.423	10.437	VV	358	2383	0.03%	0.009%
165	10.459	10.437	10.464	VV	514	6361	0.08%	0.024%
166	10.468	10.464	10.480	VV	411	2909	0.03%	0.011%
167	10.489	10.480	10.494	VV	290	1608	0.02%	0.006%
168	10.501	10.494	10.507	VV	260	1707	0.02%	0.006%
169	10.528	10.507	10.533	VV	361	4174	0.05%	0.016%
170	10.546	10.533	10.560	VV	469	5697	0.07%	0.021%
171	10.568	10.560	10.581	VV	400	4144	0.05%	0.015%
172	10.633	10.581	10.643	VV	654	13517	0.16%	0.050%
173	10.663	10.643	10.689	VV	1173	15074	0.18%	0.056%
174	10.707	10.689	10.742	PV	329	7248	0.09%	0.027%
175	10.751	10.742	10.763	VV	371	3615	0.04%	0.013%
176	10.775	10.763	10.803	VV	344	3975	0.05%	0.015%
177	10.819	10.803	10.828	VV	175	1716	0.02%	0.006%
178	10.842	10.828	10.853	PV	274	2566	0.03%	0.010%
179	10.881	10.853	10.917	VV	1505	22188	0.26%	0.083%
180	10.945	10.917	11.008	VV	2326	44802	0.53%	0.167%
181	11.017	11.008	11.026	VV	584	4805	0.06%	0.018%
182	11.048	11.026	11.079	VV	592	12984	0.15%	0.048%
183	11.102	11.079	11.120	VV	289	3987	0.05%	0.015%
184	11.174	11.120	11.202	VV	592	13562	0.16%	0.050%
185	11.234	11.202	11.386	VV	497237	5703920	67.72%	21.236%
186	11.412	11.386	11.448	VV	2088	38160	0.45%	0.142%
187	11.468	11.448	11.480	VV	491	8660	0.10%	0.032%
188	11.498	11.480	11.520	VV	632	11837	0.14%	0.044%
189	11.532	11.520	11.542	VV	731	8231	0.10%	0.031%
190	11.570	11.542	11.585	VV	977	21889	0.26%	0.081%
191	11.590	11.585	11.612	VV	986	13522	0.16%	0.050%
192	11.621	11.612	11.635	VV	788	10372	0.12%	0.039%
193	11.670	11.635	11.722	VV	8729	151965	1.80%	0.566%
194	11.736	11.722	11.747	VV	972	11886	0.14%	0.044%

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195	11.755	11.747	11.779	VV	906	12883	0.15%	0.048%
196	11.813	11.779	11.853	VV	1578	42362	0.50%	0.158%
197	11.877	11.853	12.002	VV	9067	280435	3.33%	1.044%
198	12.009	12.002	12.055	VV	1196	32789	0.39%	0.122%
199	12.103	12.055	12.139	VV	7317	121448	1.44%	0.452%
200	12.181	12.139	12.219	VV	1893	38322	0.45%	0.143%
201	12.243	12.219	12.283	VV	2915	40371	0.48%	0.150%
202	12.314	12.283	12.341	VV	1914	31793	0.38%	0.118%
203	12.363	12.341	12.378	VV	465	7251	0.09%	0.027%
204	12.389	12.378	12.416	VV	346	5309	0.06%	0.020%
205	12.424	12.416	12.475	VV	260	6020	0.07%	0.022%
206	12.494	12.475	12.501	VV	271	3120	0.04%	0.012%
207	12.518	12.501	12.545	VV	408	7433	0.09%	0.028%
208	12.564	12.545	12.587	VV	353	6909	0.08%	0.026%
209	12.613	12.587	12.645	VV	513	12420	0.15%	0.046%
210	12.677	12.645	12.715	VV	112158	1391800	16.53%	5.182%
211	12.735	12.715	12.825	VV	5856	141902	1.68%	0.528%
212	12.853	12.825	12.872	VV	1000	21122	0.25%	0.079%
213	12.919	12.872	12.979	VV	4794	103469	1.23%	0.385%
214	12.985	12.979	13.014	VV	642	12525	0.15%	0.047%
215	13.043	13.014	13.081	VV	894	24481	0.29%	0.091%
216	13.133	13.081	13.218	VV	2386	94917	1.13%	0.353%
217	13.228	13.218	13.256	VV	779	15282	0.18%	0.057%
218	13.288	13.256	13.351	VV	798	37580	0.45%	0.140%
219	13.386	13.351	13.410	VV	1664	35911	0.43%	0.134%
220	13.436	13.410	13.480	VV	2548	41981	0.50%	0.156%
221	13.486	13.480	13.520	VV	493	8195	0.10%	0.031%
222	13.545	13.520	13.606	VV	865	22671	0.27%	0.084%
223	13.613	13.606	13.633	VV	309	3477	0.04%	0.013%
224	13.668	13.633	13.718	VV	337	13808	0.16%	0.051%
225	13.729	13.718	13.757	VV	486	7663	0.09%	0.029%
226	13.772	13.757	13.787	VV	372	4560	0.05%	0.017%
227	13.824	13.787	13.844	VV	340	8116	0.10%	0.030%
228	13.906	13.844	13.939	VV	882	29930	0.36%	0.111%
229	13.945	13.939	13.959	VV	504	5060	0.06%	0.019%
230	13.976	13.959	13.985	VV	469	5969	0.07%	0.022%
231	13.995	13.985	14.026	VV	484	8483	0.10%	0.032%
232	14.035	14.026	14.044	VV	382	3184	0.04%	0.012%
233	14.087	14.044	14.120	VV	671	23082	0.27%	0.086%
234	14.161	14.120	14.179	VV	798	20956	0.25%	0.078%
235	14.199	14.179	14.245	VV	779	19997	0.24%	0.074%
236	14.296	14.245	14.317	VV	679	21395	0.25%	0.080%
237	14.344	14.317	14.364	VV	574	11961	0.14%	0.045%
238	14.381	14.364	14.397	VV	451	6382	0.08%	0.024%
239	14.404	14.397	14.425	VV	431	4581	0.05%	0.017%
240	14.446	14.425	14.473	VV	452	9169	0.11%	0.034%
241	14.498	14.473	14.514	VV	1289	19877	0.24%	0.074%
242	14.538	14.514	14.607	VV	1931	38525	0.46%	0.143%
243	14.629	14.607	14.670	VV	348	8030	0.10%	0.030%
244	14.698	14.670	14.722	VV	973	15849	0.19%	0.059%
245	14.728	14.722	14.759	VV	359	5707	0.07%	0.021%
246	14.770	14.759	14.819	VV	422	5771	0.07%	0.021%

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247	14.838	14.819	14.858	PV	226	3923	0.05%	0.015%
248	14.900	14.858	14.927	VV	566	12921	0.15%	0.048%
249	14.968	14.927	14.984	VV	553	14354	0.17%	0.053%
250	14.989	14.984	14.999	VV	489	4012	0.05%	0.015%
251	15.024	14.999	15.048	VV	550	13290	0.16%	0.049%
252	15.087	15.048	15.137	VV	1360	38570	0.46%	0.144%
253	15.174	15.137	15.204	VV	652	18681	0.22%	0.070%
254	15.244	15.204	15.316	VV	735	28383	0.34%	0.106%
255	15.358	15.316	15.374	VV	534	12306	0.15%	0.046%
256	15.390	15.374	15.426	VV	602	12516	0.15%	0.047%
257	15.435	15.426	15.457	VV	370	4822	0.06%	0.018%
258	15.522	15.457	15.534	VV	1216	18688	0.22%	0.070%
259	15.555	15.534	15.650	VV	1684	41176	0.49%	0.153%
260	15.657	15.650	15.670	VV	279	1435	0.02%	0.005%
261	15.696	15.670	15.713	VV	352	5844	0.07%	0.022%
262	15.740	15.713	15.830	VV	391	12780	0.15%	0.048%
263	15.839	15.830	15.897	VV	392	3325	0.04%	0.012%
264	15.912	15.897	15.927	PV	398	3285	0.04%	0.012%
265	15.931	15.927	15.965	VV	254	2935	0.03%	0.011%
266	15.997	15.965	16.014	VV	313	5663	0.07%	0.021%
267	16.046	16.014	16.080	VV	526	11911	0.14%	0.044%
268	16.096	16.080	16.135	VV	288	7222	0.09%	0.027%
269	16.160	16.135	16.215	VV	461	16334	0.19%	0.061%
270	16.228	16.215	16.249	VV	514	7426	0.09%	0.028%
271	16.257	16.249	16.276	VV	536	5578	0.07%	0.021%
272	16.289	16.276	16.312	VV	320	4406	0.05%	0.016%
273	16.399	16.312	16.447	VV	686	30010	0.36%	0.112%
274	16.467	16.447	16.480	VV	900	13959	0.17%	0.052%
275	16.498	16.480	16.522	VV	1707	29173	0.35%	0.109%
276	16.542	16.522	16.649	VV	3813	72546	0.86%	0.270%
277	16.658	16.649	16.711	VV	406	7656	0.09%	0.029%
278	16.742	16.711	16.755	VV	317	4104	0.05%	0.015%
279	16.794	16.755	16.808	VV	409	7046	0.08%	0.026%
280	16.824	16.808	16.884	VV	521	12277	0.15%	0.046%
281	16.891	16.884	16.900	VV	250	1429	0.02%	0.005%
282	16.911	16.900	16.927	VV	278	3418	0.04%	0.013%
283	16.950	16.927	16.991	VV	1151	20152	0.24%	0.075%
284	16.998	16.991	17.009	VV	297	1998	0.02%	0.007%
285	17.052	17.009	17.084	VV	450	11622	0.14%	0.043%
286	17.109	17.084	17.129	PV	388	6267	0.07%	0.023%
287	17.137	17.129	17.164	VV	368	4787	0.06%	0.018%
288	17.171	17.164	17.185	VV	211	2378	0.03%	0.009%
289	17.202	17.185	17.219	VV	243	4022	0.05%	0.015%
290	17.250	17.219	17.269	VV	304	5305	0.06%	0.020%
291	17.283	17.269	17.314	VV	304	5500	0.07%	0.020%
292	17.318	17.314	17.328	VV	223	1372	0.02%	0.005%
293	17.382	17.328	17.428	VV	2171	47878	0.57%	0.178%
294	17.441	17.428	17.452	VV	308	3241	0.04%	0.012%
295	17.457	17.452	17.483	VV	431	4596	0.05%	0.017%
296	17.492	17.483	17.500	VV	372	2146	0.03%	0.008%
297	17.522	17.500	17.557	VV	365	9441	0.11%	0.035%
298	17.575	17.557	17.615	VV	289	6425	0.08%	0.024%
299	17.666	17.615	17.692	VV	592	16317	0.19%	0.061%

					rteres			
300	17.704	17.692	17.747	VV	350	4290	0.05%	0.016%
301	17.805	17.747	17.879	PV	1883	41144	0.49%	0.153%
302	17.908	17.879	17.952	VV	408	10168	0.12%	0.038%
303	17.976	17.952	18.006	VV	265	5628	0.07%	0.021%
304	18.069	18.006	18.092	VV	480	12162	0.14%	0.045%
305	18.122	18.092	18.139	VV	283	4305	0.05%	0.016%
306	18.213	18.139	18.278	VV	2298	64396	0.76%	0.240%
307	18.287	18.278	18.296	VV	221	1363	0.02%	0.005%
308	18.323	18.296	18.334	PV	392	4919	0.06%	0.018%
309	18.346	18.334	18.374	VV	404	5842	0.07%	0.022%
310	18.426	18.374	18.448	VV	367	12109	0.14%	0.045%
311	18.473	18.448	18.502	VV	376	8312	0.10%	0.031%
312	18.524	18.502	18.542	VV	321	5380	0.06%	0.020%
313	18.550	18.542	18.570	VV	252	2085	0.02%	0.008%
314	18.608	18.570	18.670	VV	1384	27025	0.32%	0.101%
315	18.677	18.670	18.697	VV	191	1445	0.02%	0.005%

Sum of corrected areas: 26859796

Aromatic EPH 021125.M Wed Mar 05 23:53:55 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068374.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 19:04
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
ENV-104-GW01

Integration File: autoint1.e
Quant Time: Mar 05 22:34:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.836	4675167	41.567 ug/ml
Spiked Amount 50.000		Recovery = 83.13%	
Target Compounds			

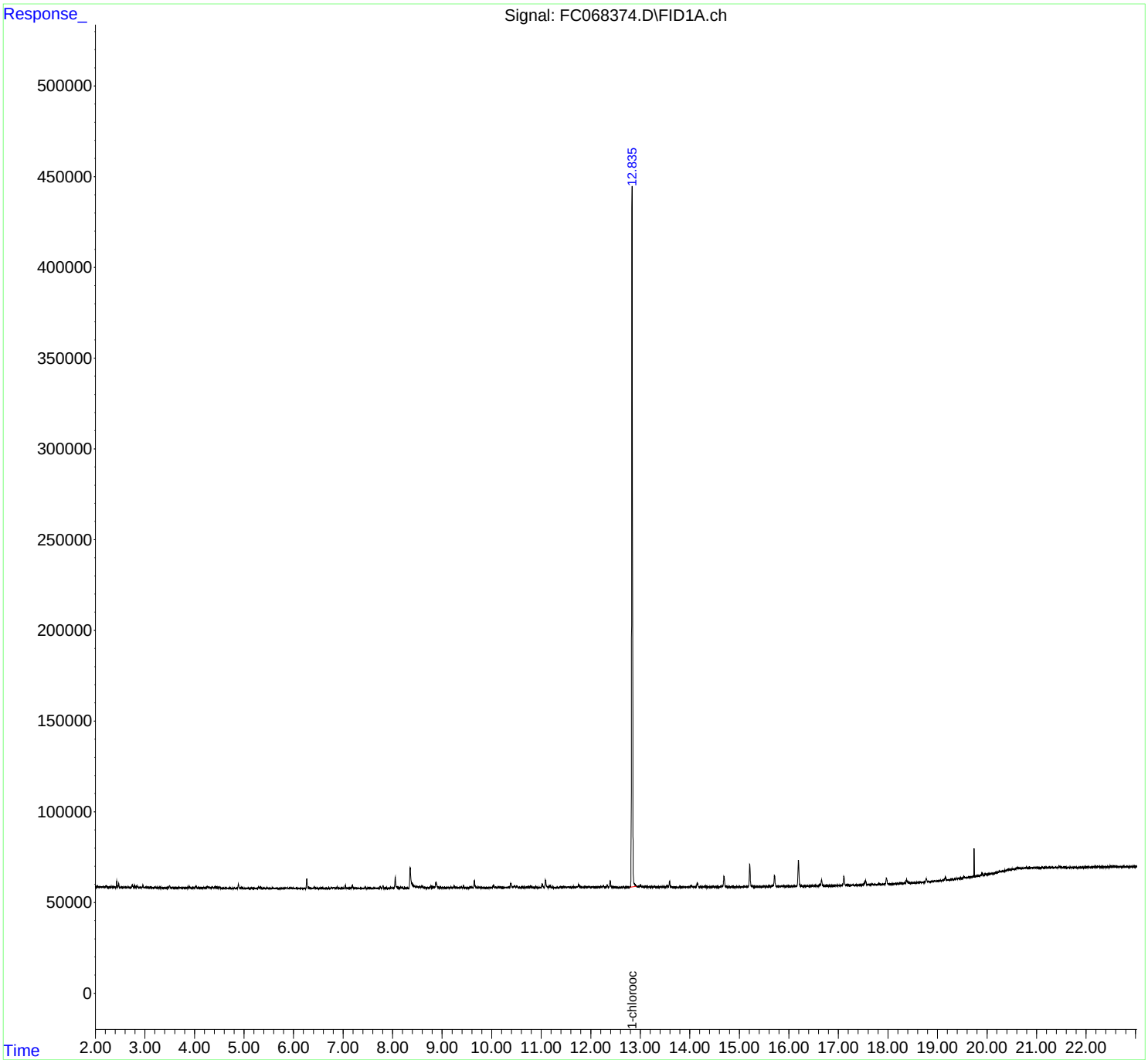
(f)=RT Delta > 1/2 Window (m)=manual int.

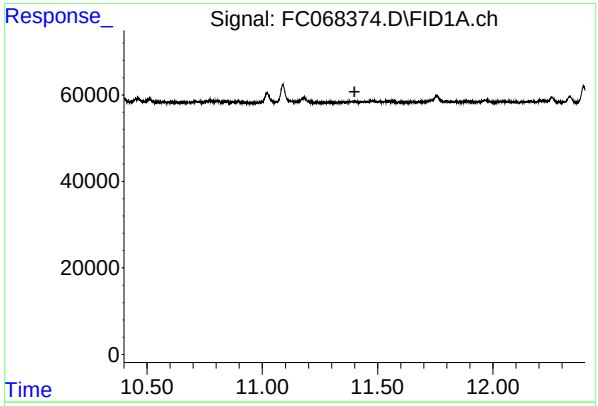
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068374.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 19:04
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
ENV-104-GW01

Integration File: autoint1.e
Quant Time: Mar 05 22:34:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

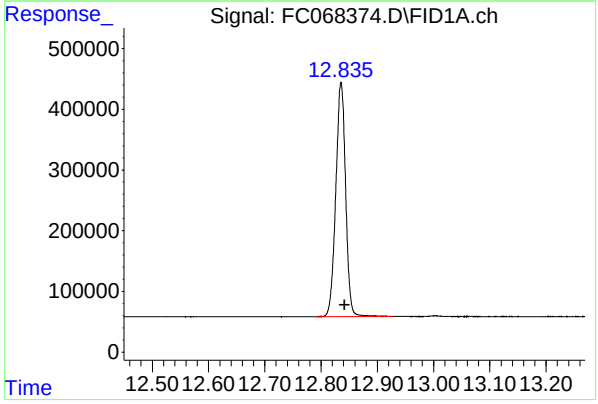




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
ENV-104-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 12.836 min
Delta R.T.: -0.006 min
Response: 4675167
Conc: 41.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068374.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 19:04
Sample : Q1488-14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.357	2.305	2.402	BV	316	4264	0.09%	0.038%
2	2.430	2.402	2.453	PV	3345	28135	0.59%	0.250%
3	2.471	2.453	2.506	VV	2209	20160	0.43%	0.179%
4	2.527	2.506	2.540	VV	189	1968	0.04%	0.017%
5	2.557	2.540	2.577	VV	141	2270	0.05%	0.020%
6	2.588	2.577	2.606	VV	104	1244	0.03%	0.011%
7	2.655	2.606	2.695	PV	457	6391	0.13%	0.057%
8	2.709	2.695	2.718	VV	111	1107	0.02%	0.010%
9	2.742	2.718	2.769	VV	1335	20138	0.42%	0.179%
10	2.787	2.769	2.821	VV	1134	14477	0.31%	0.129%
11	2.838	2.821	2.876	VV	1083	15102	0.32%	0.134%
12	2.884	2.876	2.895	VV	213	2047	0.04%	0.018%
13	2.916	2.895	2.940	VV	383	6625	0.14%	0.059%
14	2.960	2.940	2.998	VV	1126	15146	0.32%	0.135%
15	3.024	2.998	3.035	VV	202	3763	0.08%	0.033%
16	3.051	3.035	3.138	VV	187	6890	0.15%	0.061%
17	3.153	3.138	3.168	VV	160	2067	0.04%	0.018%
18	3.206	3.168	3.258	VV	409	9201	0.19%	0.082%
19	3.267	3.258	3.365	PV	151	5324	0.11%	0.047%
20	3.372	3.365	3.446	VV	100	3097	0.07%	0.028%
21	3.466	3.446	3.480	VV	237	2494	0.05%	0.022%
22	3.497	3.480	3.514	VV	1506	13198	0.28%	0.117%
23	3.524	3.514	3.553	VV	229	2386	0.05%	0.021%
24	3.577	3.553	3.616	VV	214	3234	0.07%	0.029%
25	3.628	3.616	3.671	VV	92	2191	0.05%	0.019%
26	3.691	3.671	3.751	VV	278	7372	0.16%	0.066%
27	3.774	3.751	3.797	VV	301	4464	0.09%	0.040%
28	3.810	3.797	3.838	VV	104	2310	0.05%	0.021%
29	3.864	3.838	3.881	VV	482	6595	0.14%	0.059%
30	3.893	3.881	3.934	VV	650	11213	0.24%	0.100%
31	3.957	3.934	3.995	VV	256	5959	0.13%	0.053%
32	4.029	3.995	4.061	VV	960	19298	0.41%	0.171%
33	4.074	4.061	4.088	VV	252	4015	0.08%	0.036%
34	4.093	4.088	4.115	VV	263	3472	0.07%	0.031%
35	4.122	4.115	4.152	VV	198	4503	0.10%	0.040%
36	4.163	4.152	4.198	VV	251	6115	0.13%	0.054%

rteres

37	4.215	4.198	4.238	VV	242	4701	0.10%	0.042%
38	4.261	4.238	4.291	VV	832	16846	0.36%	0.150%
39	4.300	4.291	4.340	VV	644	11134	0.23%	0.099%
40	4.364	4.340	4.392	VV	615	11188	0.24%	0.099%
41	4.425	4.392	4.446	VV	866	14429	0.30%	0.128%
42	4.456	4.446	4.467	VV	356	3862	0.08%	0.034%
43	4.481	4.467	4.496	VV	651	7255	0.15%	0.064%
44	4.511	4.496	4.571	VV	1036	13014	0.27%	0.116%
45	4.581	4.571	4.606	VV	168	1931	0.04%	0.017%
46	4.630	4.606	4.668	VV	220	4153	0.09%	0.037%
47	4.707	4.668	4.794	VV	172	5356	0.11%	0.048%
48	4.807	4.794	4.828	VV	234	2182	0.05%	0.019%
49	4.887	4.828	4.923	PV	2514	34593	0.73%	0.307%
50	4.943	4.923	4.958	VV	535	6586	0.14%	0.059%
51	4.973	4.958	5.010	VV	303	5846	0.12%	0.052%
52	5.022	5.010	5.048	VV	169	2846	0.06%	0.025%
53	5.057	5.048	5.069	VV	127	1614	0.03%	0.014%
54	5.082	5.069	5.115	VV	233	3489	0.07%	0.031%
55	5.162	5.115	5.205	PV	168	5057	0.11%	0.045%
56	5.253	5.205	5.273	VV	145	3320	0.07%	0.030%
57	5.291	5.273	5.309	VV	801	9457	0.20%	0.084%
58	5.328	5.309	5.375	VV	931	14611	0.31%	0.130%
59	5.382	5.375	5.412	VV	194	2978	0.06%	0.026%
60	5.421	5.412	5.441	VV	164	1600	0.03%	0.014%
61	5.466	5.441	5.528	VV	252	6353	0.13%	0.056%
62	5.539	5.528	5.548	VV	80	821	0.02%	0.007%
63	5.571	5.548	5.602	VV	323	4466	0.09%	0.040%
64	5.663	5.602	5.682	VV	147	4836	0.10%	0.043%
65	5.691	5.682	5.712	VV	98	1074	0.02%	0.010%
66	5.744	5.712	5.765	PV	237	2710	0.06%	0.024%
67	5.787	5.765	5.819	VV	206	3881	0.08%	0.034%
68	5.848	5.819	5.871	VV	332	6992	0.15%	0.062%
69	5.884	5.871	5.904	VV	317	4667	0.10%	0.041%
70	5.928	5.904	5.969	VV	562	10117	0.21%	0.090%
71	5.990	5.969	6.028	VV	419	7652	0.16%	0.068%
72	6.060	6.028	6.082	VV	220	4296	0.09%	0.038%
73	6.100	6.082	6.144	VV	175	2763	0.06%	0.025%
74	6.167	6.144	6.183	VV	161	2307	0.05%	0.020%
75	6.194	6.183	6.219	VV	98	1563	0.03%	0.014%
76	6.229	6.219	6.240	VV	134	975	0.02%	0.009%
77	6.268	6.240	6.328	VV	5411	70434	1.49%	0.626%
78	6.348	6.328	6.371	VV	508	6821	0.14%	0.061%
79	6.386	6.371	6.397	VV	292	3168	0.07%	0.028%
80	6.415	6.397	6.433	VV	742	8733	0.18%	0.078%
81	6.449	6.433	6.466	VV	272	3766	0.08%	0.033%
82	6.487	6.466	6.521	PV	330	4712	0.10%	0.042%
83	6.532	6.521	6.562	VV	136	1427	0.03%	0.013%
84	6.578	6.562	6.613	VV	178	2080	0.04%	0.018%
85	6.624	6.613	6.648	VV	124	1509	0.03%	0.013%
86	6.660	6.648	6.678	VV	142	1400	0.03%	0.012%
87	6.705	6.678	6.738	VV	515	6341	0.13%	0.056%
88	6.759	6.738	6.793	VV	494	10544	0.22%	0.094%
89	6.809	6.793	6.855	VV	522	10877	0.23%	0.097%

rteres

90	6.883	6.855	6.907	VV	729	12663	0.27%	0.113%
91	6.926	6.907	6.940	VV	240	3270	0.07%	0.029%
92	6.964	6.940	6.979	VV	211	4145	0.09%	0.037%
93	6.988	6.979	7.008	VV	243	2371	0.05%	0.021%
94	7.045	7.008	7.077	VV	1828	21532	0.45%	0.191%
95	7.106	7.077	7.135	VV	272	6551	0.14%	0.058%
96	7.188	7.135	7.231	VV	1995	31602	0.67%	0.281%
97	7.247	7.231	7.268	VV	365	5460	0.12%	0.049%
98	7.277	7.268	7.303	VV	340	4349	0.09%	0.039%
99	7.314	7.303	7.326	VV	146	1590	0.03%	0.014%
100	7.359	7.326	7.379	VV	238	4659	0.10%	0.041%
101	7.446	7.379	7.494	VV	678	12733	0.27%	0.113%
102	7.516	7.494	7.533	VV	262	4003	0.08%	0.036%
103	7.546	7.533	7.573	VV	297	4095	0.09%	0.036%
104	7.610	7.573	7.628	VV	382	6760	0.14%	0.060%
105	7.638	7.628	7.695	VV	266	6603	0.14%	0.059%
106	7.705	7.695	7.728	VV	305	3090	0.07%	0.027%
107	7.751	7.728	7.788	PV	993	12937	0.27%	0.115%
108	7.806	7.788	7.831	VV	1538	17828	0.38%	0.158%
109	7.841	7.831	7.861	VV	265	2760	0.06%	0.025%
110	7.876	7.861	7.927	VV	331	6643	0.14%	0.059%
111	7.963	7.927	7.982	VV	634	8975	0.19%	0.080%
112	7.993	7.982	8.025	VV	224	4962	0.10%	0.044%
113	8.054	8.025	8.128	VV	6258	84158	1.78%	0.748%
114	8.156	8.128	8.185	VV	473	11708	0.25%	0.104%
115	8.200	8.185	8.225	VV	452	7100	0.15%	0.063%
116	8.242	8.225	8.268	VV	310	4869	0.10%	0.043%
117	8.287	8.268	8.320	VV	380	4899	0.10%	0.044%
118	8.355	8.320	8.525	VV	11407	278544	5.88%	2.475%
119	8.540	8.525	8.571	VV	802	18981	0.40%	0.169%
120	8.589	8.571	8.626	VV	1287	26101	0.55%	0.232%
121	8.648	8.626	8.683	VV	560	11629	0.25%	0.103%
122	8.704	8.683	8.748	VV	392	10110	0.21%	0.090%
123	8.772	8.748	8.792	VV	1249	17759	0.37%	0.158%
124	8.809	8.792	8.837	VV	899	16157	0.34%	0.144%
125	8.877	8.837	8.941	VV	3327	72446	1.53%	0.644%
126	8.958	8.941	8.991	VV	611	11362	0.24%	0.101%
127	9.007	8.991	9.034	VV	511	8423	0.18%	0.075%
128	9.063	9.034	9.081	VV	369	7313	0.15%	0.065%
129	9.088	9.081	9.145	VV	307	9969	0.21%	0.089%
130	9.173	9.145	9.218	VV	496	12690	0.27%	0.113%
131	9.241	9.218	9.274	VV	1048	19299	0.41%	0.171%
132	9.292	9.274	9.316	VV	535	8729	0.18%	0.078%
133	9.332	9.316	9.358	VV	390	7396	0.16%	0.066%
134	9.380	9.358	9.410	VV	758	14256	0.30%	0.127%
135	9.430	9.410	9.475	VV	1266	18695	0.39%	0.166%
136	9.492	9.475	9.508	VV	237	3180	0.07%	0.028%
137	9.523	9.508	9.536	VV	258	3048	0.06%	0.027%
138	9.572	9.536	9.594	VV	550	9846	0.21%	0.087%
139	9.613	9.594	9.626	VV	330	5424	0.11%	0.048%
140	9.652	9.626	9.699	VV	4315	63860	1.35%	0.567%
141	9.719	9.699	9.807	VV	483	21777	0.46%	0.194%

rteres

142	9.825	9.807	9.846	VV	267	4522	0.10%	0.040%
143	9.865	9.846	9.878	VV	221	3200	0.07%	0.028%
144	9.882	9.878	9.889	VV	202	1067	0.02%	0.009%
145	9.926	9.889	9.942	VV	269	5555	0.12%	0.049%
146	9.970	9.942	9.980	VV	363	6138	0.13%	0.055%
147	10.038	9.980	10.068	VV	1166	30275	0.64%	0.269%
148	10.078	10.068	10.101	VV	503	8220	0.17%	0.073%
149	10.130	10.101	10.165	VV	542	14285	0.30%	0.127%
150	10.179	10.165	10.227	VV	478	10906	0.23%	0.097%
151	10.248	10.227	10.265	VV	402	6401	0.14%	0.057%
152	10.279	10.265	10.299	VV	369	6072	0.13%	0.054%
153	10.328	10.299	10.351	VV	513	11720	0.25%	0.104%
154	10.388	10.351	10.424	VV	2648	48995	1.03%	0.435%
155	10.458	10.424	10.485	VV	1191	27825	0.59%	0.247%
156	10.511	10.485	10.542	VV	1046	20738	0.44%	0.184%
157	10.557	10.542	10.587	VV	377	8730	0.18%	0.078%
158	10.601	10.587	10.658	VV	381	12135	0.26%	0.108%
159	10.709	10.658	10.740	VV	538	16714	0.35%	0.149%
160	10.773	10.740	10.792	VV	623	15244	0.32%	0.135%
161	10.806	10.792	10.825	VV	623	8955	0.19%	0.080%
162	10.838	10.825	10.862	VV	493	7927	0.17%	0.070%
163	10.893	10.862	10.975	VV	490	16576	0.35%	0.147%
164	11.021	10.975	11.056	VV	2413	41674	0.88%	0.370%
165	11.089	11.056	11.148	VV	4350	73033	1.54%	0.649%
166	11.180	11.148	11.224	VV	1267	28451	0.60%	0.253%
167	11.241	11.224	11.261	VV	226	4402	0.09%	0.039%
168	11.291	11.261	11.345	VV	209	8709	0.18%	0.077%
169	11.379	11.345	11.428	VV	441	15232	0.32%	0.135%
170	11.441	11.428	11.461	VV	413	6876	0.15%	0.061%
171	11.477	11.461	11.528	VV	559	15899	0.34%	0.141%
172	11.542	11.528	11.599	VV	470	14216	0.30%	0.126%
173	11.604	11.599	11.614	VV	200	1664	0.04%	0.015%
174	11.690	11.614	11.701	VV	353	12448	0.26%	0.111%
175	11.756	11.701	11.867	VV	1800	54345	1.15%	0.483%
176	11.884	11.867	11.931	VV	465	11937	0.25%	0.106%
177	11.968	11.931	12.010	VV	641	18059	0.38%	0.160%
178	12.032	12.010	12.115	VV	382	15690	0.33%	0.139%
179	12.165	12.115	12.186	VV	418	12468	0.26%	0.111%
180	12.208	12.186	12.237	VV	538	12854	0.27%	0.114%
181	12.255	12.237	12.300	VV	1279	19544	0.41%	0.174%
182	12.333	12.300	12.361	VV	1498	22625	0.48%	0.201%
183	12.393	12.361	12.495	VV	3785	61387	1.30%	0.545%
184	12.516	12.495	12.559	VV	333	7222	0.15%	0.064%
185	12.585	12.559	12.626	PV	112	3361	0.07%	0.030%
186	12.653	12.626	12.729	VV	276	10763	0.23%	0.096%
187	12.836	12.729	12.976	VV	386937	4739691	100.00%	42.117%
188	13.003	12.976	13.042	VV	1571	32165	0.68%	0.286%
189	13.051	13.042	13.061	VV	494	4894	0.10%	0.043%
190	13.067	13.061	13.156	VV	481	18542	0.39%	0.165%
191	13.210	13.156	13.240	VV	334	13158	0.28%	0.117%
192	13.284	13.240	13.325	VV	453	16069	0.34%	0.143%
193	13.332	13.325	13.339	VV	180	1530	0.03%	0.014%
194	13.353	13.339	13.369	VV	298	3407	0.07%	0.030%

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195	13.389	13.369	13.416	VV	276	6301	0.13%	0.056%
196	13.453	13.416	13.481	VV	348	10945	0.23%	0.097%
197	13.493	13.481	13.510	VV	264	3725	0.08%	0.033%
198	13.538	13.510	13.562	VV	1210	18847	0.40%	0.167%
199	13.591	13.562	13.655	VV	3073	50462	1.06%	0.448%
200	13.665	13.655	13.695	VV	170	3038	0.06%	0.027%
201	13.716	13.695	13.772	VV	146	3784	0.08%	0.034%
202	13.819	13.772	13.911	PV	329	13297	0.28%	0.118%
203	13.947	13.911	13.991	VV	187	5183	0.11%	0.046%
204	14.028	13.991	14.115	VV	1020	26712	0.56%	0.237%
205	14.151	14.115	14.195	VV	2574	42146	0.89%	0.375%
206	14.211	14.195	14.231	VV	200	3763	0.08%	0.033%
207	14.242	14.231	14.255	VV	178	2290	0.05%	0.020%
208	14.290	14.255	14.325	VV	301	9561	0.20%	0.085%
209	14.334	14.325	14.380	VV	217	4863	0.10%	0.043%
210	14.394	14.380	14.421	VV	218	3716	0.08%	0.033%
211	14.465	14.421	14.480	VV	281	6522	0.14%	0.058%
212	14.496	14.480	14.525	VV	264	4126	0.09%	0.037%
213	14.544	14.525	14.581	VV	204	4240	0.09%	0.038%
214	14.585	14.581	14.596	VV	143	675	0.01%	0.006%
215	14.646	14.596	14.663	VV	1043	16248	0.34%	0.144%
216	14.690	14.663	14.818	VV	5897	98659	2.08%	0.877%
217	14.825	14.818	14.834	VV	68	560	0.01%	0.005%
218	14.866	14.834	14.882	VV	252	4743	0.10%	0.042%
219	14.890	14.882	14.960	VV	138	4851	0.10%	0.043%
220	14.994	14.960	15.020	PV	186	3312	0.07%	0.029%
221	15.029	15.020	15.036	VV	112	796	0.02%	0.007%
222	15.041	15.036	15.064	VV	111	1228	0.03%	0.011%
223	15.116	15.064	15.145	PV	297	8294	0.17%	0.074%
224	15.209	15.145	15.303	VV	12589	188776	3.98%	1.677%
225	15.362	15.303	15.371	VV	168	4919	0.10%	0.044%
226	15.387	15.371	15.433	VV	180	5095	0.11%	0.045%
227	15.446	15.433	15.459	VV	146	1870	0.04%	0.017%
228	15.509	15.459	15.531	VV	257	7177	0.15%	0.064%
229	15.552	15.531	15.568	VV	203	3737	0.08%	0.033%
230	15.571	15.568	15.578	VV	203	1074	0.02%	0.010%
231	15.585	15.578	15.592	VV	156	1287	0.03%	0.011%
232	15.601	15.592	15.618	VV	186	2201	0.05%	0.020%
233	15.671	15.618	15.683	VV	864	14976	0.32%	0.133%
234	15.709	15.683	15.801	VV	6318	101183	2.13%	0.899%
235	15.806	15.801	15.831	VV	179	1995	0.04%	0.018%
236	15.856	15.831	15.874	VV	215	3778	0.08%	0.034%
237	15.897	15.874	15.969	VV	182	6547	0.14%	0.058%
238	16.128	15.969	16.141	PV	257	9496	0.20%	0.084%
239	16.192	16.141	16.298	VV	14330	231044	4.87%	2.053%
240	16.317	16.298	16.334	VV	208	3495	0.07%	0.031%
241	16.377	16.334	16.412	VV	213	7108	0.15%	0.063%
242	16.429	16.412	16.451	VV	153	2788	0.06%	0.025%
243	16.461	16.451	16.523	VV	183	4190	0.09%	0.037%
244	16.552	16.523	16.588	VV	285	6802	0.14%	0.060%
245	16.626	16.588	16.634	VV	773	12916	0.27%	0.115%
246	16.659	16.634	16.751	VV	3327	59295	1.25%	0.527%

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247	16.758	16.751	16.785	VV	181	2653	0.06%	0.024%
248	16.791	16.785	16.811	VV	71	1240	0.03%	0.011%
249	16.819	16.811	16.852	VV	134	1869	0.04%	0.017%
250	16.890	16.852	16.911	VV	102	2432	0.05%	0.022%
251	16.952	16.911	16.985	VV	190	4226	0.09%	0.038%
252	16.996	16.985	17.012	PV	156	1242	0.03%	0.011%
253	17.019	17.012	17.027	VV	91	681	0.01%	0.006%
254	17.110	17.027	17.180	PV	5141	85871	1.81%	0.763%
255	17.206	17.180	17.268	VV	275	7274	0.15%	0.065%
256	17.302	17.268	17.381	VV	211	7842	0.17%	0.070%
257	17.391	17.381	17.431	VV	157	2750	0.06%	0.024%
258	17.546	17.431	17.588	VV	2646	56404	1.19%	0.501%
259	17.601	17.588	17.645	VV	228	5542	0.12%	0.049%
260	17.651	17.645	17.661	VV	107	1187	0.03%	0.011%
261	17.698	17.661	17.785	VV	212	8329	0.18%	0.074%
262	17.826	17.785	17.908	PV	333	8580	0.18%	0.076%
263	17.969	17.908	18.061	PV	3499	65533	1.38%	0.582%
264	18.072	18.061	18.077	VV	124	724	0.02%	0.006%
265	18.085	18.077	18.136	VV	128	2974	0.06%	0.026%
266	18.179	18.136	18.201	VV	152	3529	0.07%	0.031%
267	18.249	18.201	18.261	PV	244	6661	0.14%	0.059%
268	18.267	18.261	18.291	VV	169	2331	0.05%	0.021%
269	18.301	18.291	18.309	VV	97	932	0.02%	0.008%
270	18.378	18.309	18.455	VV	2040	48291	1.02%	0.429%
271	18.538	18.455	18.547	PV	129	3534	0.07%	0.031%
272	18.558	18.547	18.571	VV	91	1018	0.02%	0.009%
273	18.575	18.571	18.605	VV	117	1035	0.02%	0.009%
274	18.775	18.605	18.851	PV	1686	34158	0.72%	0.304%
275	18.953	18.851	18.970	PV	300	9123	0.19%	0.081%
276	19.161	18.970	19.228	VV	1552	43711	0.92%	0.388%
277	19.238	19.228	19.244	VV	109	862	0.02%	0.008%
278	19.396	19.244	19.409	VV	420	19986	0.42%	0.178%
279	19.465	19.409	19.497	VV	546	21426	0.45%	0.190%
280	19.536	19.497	19.565	VV	1156	27154	0.57%	0.241%
281	19.741	19.565	19.753	VV	5507	73138	1.54%	0.650%
282	19.794	19.753	19.809	VV	1026	30330	0.64%	0.270%
283	19.899	19.809	19.941	VV	1921	91051	1.92%	0.809%
284	19.962	19.941	19.998	VV	1349	41816	0.88%	0.372%
285	20.254	19.998	20.287	VV	2447	276629	5.84%	2.458%
286	20.431	20.287	20.458	VV	2898	250724	5.29%	2.228%
287	20.612	20.458	20.658	VV	3449	348380	7.35%	3.096%
288	20.796	20.658	20.898	VV	2948	407306	8.59%	3.619%
289	20.941	20.898	20.985	VV	2624	133269	2.81%	1.184%
290	21.015	20.985	21.051	VV	2534	95704	2.02%	0.850%
291	21.314	21.051	21.421	VV	1919	436573	9.21%	3.879%
292	21.467	21.421	21.513	VV	1757	87530	1.85%	0.778%
293	21.534	21.513	21.576	VV	1375	48015	1.01%	0.427%
294	21.594	21.576	21.623	VV	1075	28975	0.61%	0.257%
295	21.799	21.623	21.843	VV	655	101011	2.13%	0.898%
296	21.906	21.843	21.956	VV	384	25561	0.54%	0.227%
297	21.979	21.956	22.083	VV	317	14519	0.31%	0.129%
			Sum of corrected areas:			11253663		

rteres

Aliphatic EPH 021125.M Wed Mar 05 23:13:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049164.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 19:04
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
ENV-104-GW01

Integration File: autoint1.e
Quant Time: Mar 05 23:31:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	7709000	53.868 ug/ml
Spiked Amount 50.000		Recovery = 107.74%	
6) S 2-Flurobiphenyl (SURR)	8.201	4707811	53.551 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.10%	
11) S ortho-Terphenyl (SURR)	11.235	7345608	45.407 ug/ml
Spiked Amount 50.000		Recovery = 90.81%	
Target Compounds			

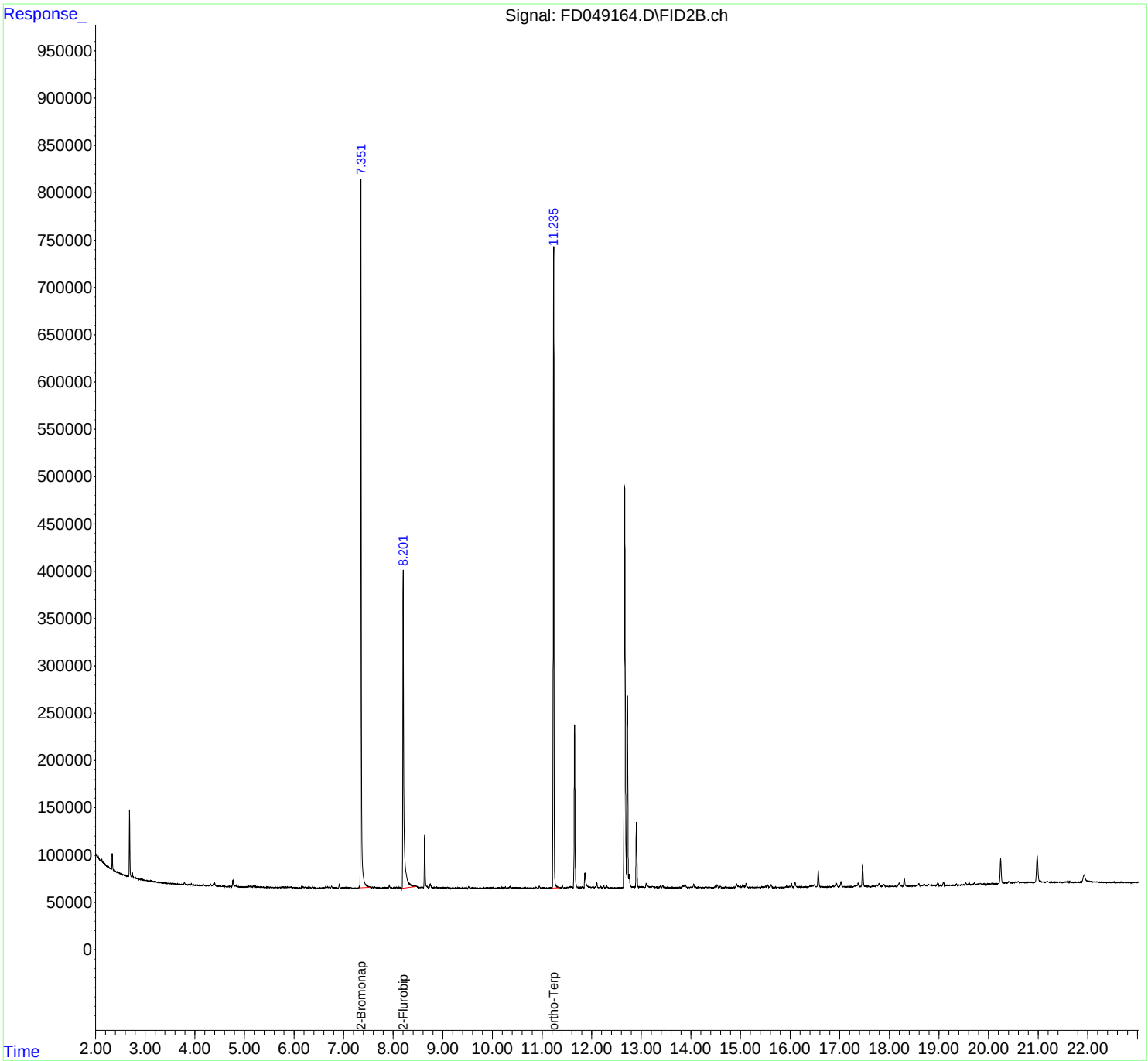
(f)=RT Delta > 1/2 Window (m)=manual int.

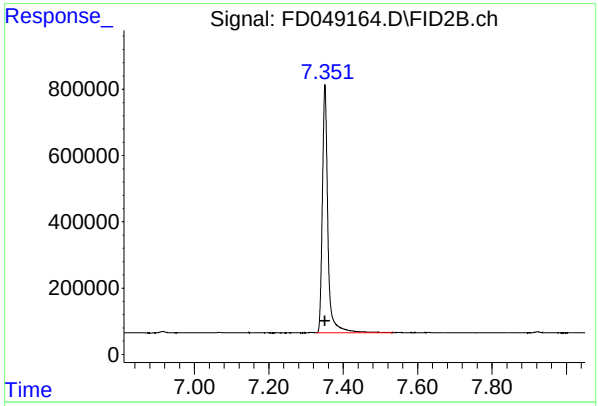
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049164.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 19:04
Operator : YP/AJ
Sample : Q1488-14
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
ENV-104-GW01

Integration File: autoint1.e
Quant Time: Mar 05 23:31:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

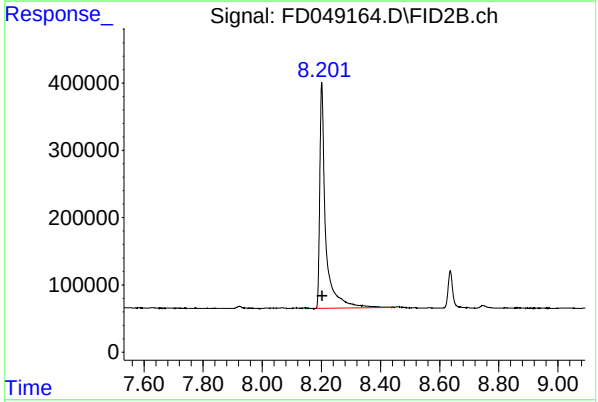




#4 2-Bromonaphthalene (SURR)

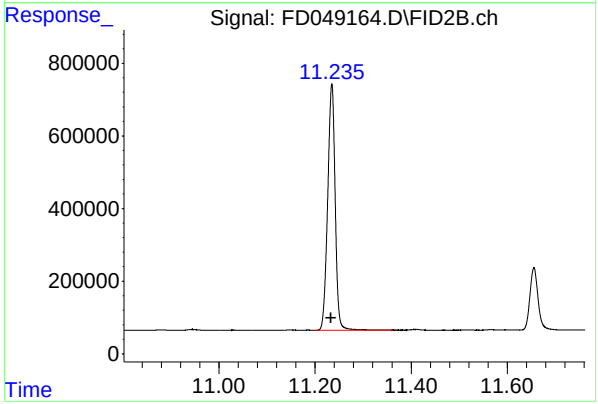
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7709000
Conc: 53.87 ug/ml

Instrument :
FID_D
ClientSampleId :
ENV-104-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 4707811
Conc: 53.55 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 7345608
Conc: 45.41 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049164.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 19:04
Sample : Q1488-14
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.056	4.042	4.069	BV	202	1442	0.02%	0.003%
2	4.085	4.069	4.102	PV	255	1133	0.01%	0.003%
3	4.129	4.122	4.147	VV	170	1700	0.02%	0.004%
4	4.169	4.147	4.209	VV	1215	21632	0.28%	0.049%
5	4.221	4.209	4.227	VV	229	1722	0.02%	0.004%
6	4.231	4.227	4.237	VV	238	1074	0.01%	0.002%
7	4.264	4.237	4.285	VV	598	12146	0.16%	0.028%
8	4.291	4.285	4.300	VV	435	2413	0.03%	0.006%
9	4.318	4.300	4.359	VV	2181	31029	0.40%	0.071%
10	4.373	4.359	4.387	VV	2094	22522	0.29%	0.051%
11	4.402	4.387	4.462	VV	3510	48888	0.63%	0.112%
12	4.469	4.462	4.480	VV	280	2378	0.03%	0.005%
13	4.497	4.480	4.501	VV	619	4990	0.06%	0.011%
14	4.512	4.501	4.543	VV	725	11141	0.14%	0.025%
15	4.554	4.543	4.565	PV	176	1486	0.02%	0.003%
16	4.582	4.565	4.645	VV	536	10325	0.13%	0.024%
17	4.648	4.645	4.675	PV	189	2002	0.03%	0.005%
18	4.689	4.675	4.702	VV	476	5068	0.07%	0.012%
19	4.708	4.702	4.745	VV	387	7256	0.09%	0.017%
20	4.768	4.745	4.815	VV	7184	102939	1.32%	0.235%
21	4.828	4.815	4.854	VV	1590	21364	0.27%	0.049%
22	4.857	4.854	4.874	VV	472	4227	0.05%	0.010%
23	4.879	4.874	4.915	VV	474	7558	0.10%	0.017%
24	4.921	4.915	4.939	VV	347	3981	0.05%	0.009%
25	4.949	4.939	4.979	VV	334	6951	0.09%	0.016%
26	4.983	4.979	4.996	VV	249	1370	0.02%	0.003%
27	5.013	4.996	5.022	PV	408	2929	0.04%	0.007%
28	5.041	5.022	5.049	VV	466	5632	0.07%	0.013%
29	5.052	5.049	5.062	VV	430	2893	0.04%	0.007%
30	5.065	5.062	5.072	VV	452	2054	0.03%	0.005%
31	5.100	5.072	5.107	VV	1008	16942	0.22%	0.039%
32	5.112	5.107	5.131	VV	1057	13025	0.17%	0.030%
33	5.137	5.131	5.166	VV	983	16100	0.21%	0.037%
34	5.183	5.166	5.200	VV	1602	22500	0.29%	0.051%
35	5.213	5.200	5.239	VV	2349	31705	0.41%	0.072%
36	5.242	5.239	5.255	VV	531	4513	0.06%	0.010%

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37	5.269	5.255	5.306	VV	1031	17707	0.23%	0.040%
38	5.311	5.306	5.325	VV	378	3543	0.05%	0.008%
39	5.345	5.325	5.359	VV	604	9828	0.13%	0.022%
40	5.366	5.359	5.371	VV	505	3303	0.04%	0.008%
41	5.377	5.371	5.398	VV	538	5627	0.07%	0.013%
42	5.403	5.398	5.427	VV	311	4402	0.06%	0.010%
43	5.432	5.427	5.444	VV	317	2093	0.03%	0.005%
44	5.466	5.444	5.474	VV	555	5070	0.07%	0.012%
45	5.483	5.474	5.508	VV	301	5058	0.06%	0.012%
46	5.512	5.508	5.548	VV	390	6196	0.08%	0.014%
47	5.553	5.548	5.578	VV	254	2309	0.03%	0.005%
48	5.589	5.578	5.597	VV	168	1219	0.02%	0.003%
49	5.609	5.597	5.614	VV	172	1334	0.02%	0.003%
50	5.630	5.620	5.656	VV	296	4184	0.05%	0.010%
51	5.664	5.656	5.675	VV	298	2638	0.03%	0.006%
52	5.693	5.675	5.709	VV	398	5541	0.07%	0.013%
53	5.743	5.709	5.749	VV	536	9023	0.12%	0.021%
54	5.778	5.749	5.803	VV	744	16595	0.21%	0.038%
55	5.819	5.803	5.863	VV	1267	26844	0.34%	0.061%
56	5.870	5.863	5.899	VV	844	11890	0.15%	0.027%
57	5.902	5.899	5.909	VV	538	2739	0.04%	0.006%
58	5.942	5.909	5.985	VV	887	26482	0.34%	0.060%
59	5.989	5.985	6.008	VV	445	4532	0.06%	0.010%
60	6.022	6.008	6.053	VV	387	5279	0.07%	0.012%
61	6.060	6.053	6.066	VV	290	1034	0.01%	0.002%
62	6.086	6.073	6.094	PV	272	2005	0.03%	0.005%
63	6.108	6.094	6.122	VV	195	1871	0.02%	0.004%
64	6.129	6.122	6.137	VV	310	1683	0.02%	0.004%
65	6.159	6.137	6.205	VV	2141	41672	0.54%	0.095%
66	6.223	6.205	6.254	VV	1395	20961	0.27%	0.048%
67	6.267	6.254	6.282	VV	699	9480	0.12%	0.022%
68	6.299	6.282	6.324	VV	1904	30692	0.39%	0.070%
69	6.329	6.324	6.353	VV	729	9102	0.12%	0.021%
70	6.371	6.353	6.420	VV	1098	21521	0.28%	0.049%
71	6.425	6.420	6.434	VV	231	1598	0.02%	0.004%
72	6.447	6.434	6.466	PV	378	4573	0.06%	0.010%
73	6.472	6.466	6.490	VV	227	2643	0.03%	0.006%
74	6.511	6.490	6.517	VV	522	5484	0.07%	0.013%
75	6.522	6.517	6.534	VV	480	3378	0.04%	0.008%
76	6.541	6.534	6.565	VV	325	3878	0.05%	0.009%
77	6.583	6.565	6.609	VV	1084	15655	0.20%	0.036%
78	6.633	6.609	6.644	VV	1076	14234	0.18%	0.032%
79	6.651	6.644	6.660	VV	985	9377	0.12%	0.021%
80	6.681	6.660	6.702	VV	1644	29615	0.38%	0.068%
81	6.709	6.702	6.734	VV	1012	13777	0.18%	0.031%
82	6.758	6.734	6.803	VV	2234	38850	0.50%	0.089%
83	6.809	6.803	6.813	VV	507	2369	0.03%	0.005%
84	6.820	6.813	6.830	VV	441	3622	0.05%	0.008%
85	6.850	6.830	6.873	VV	603	9905	0.13%	0.023%
86	6.915	6.894	6.942	VV	4366	49590	0.64%	0.113%
87	6.945	6.942	6.954	VV	342	1757	0.02%	0.004%
88	6.964	6.954	6.968	VV	344	2323	0.03%	0.005%
89	6.988	6.968	7.016	VV	923	16074	0.21%	0.037%

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90	7.028	7.016	7.037	VV	814	7764	0.10%	0.018%
91	7.040	7.037	7.051	VV	668	5187	0.07%	0.012%
92	7.065	7.051	7.101	VV	1266	23931	0.31%	0.055%
93	7.118	7.101	7.132	VV	791	10368	0.13%	0.024%
94	7.148	7.132	7.167	VV	1099	13126	0.17%	0.030%
95	7.170	7.167	7.176	VV	346	1446	0.02%	0.003%
96	7.182	7.176	7.189	VV	281	1692	0.02%	0.004%
97	7.198	7.189	7.217	VV	337	2593	0.03%	0.006%
98	7.221	7.217	7.235	VV	424	2061	0.03%	0.005%
99	7.239	7.235	7.245	VV	218	1008	0.01%	0.002%
100	7.250	7.245	7.257	VV	284	1368	0.02%	0.003%
101	7.266	7.257	7.295	VV	371	4610	0.06%	0.011%
102	7.315	7.295	7.327	VV	1647	16805	0.22%	0.038%
103	7.351	7.327	7.511	VV	746687	7783871	100.00%	17.765%
104	7.515	7.511	7.533	VV	1507	17775	0.23%	0.041%
105	7.541	7.533	7.569	VV	1285	23838	0.31%	0.054%
106	7.571	7.569	7.576	VV	889	4119	0.05%	0.009%
107	7.586	7.576	7.607	VV	985	16754	0.22%	0.038%
108	7.629	7.607	7.665	VV	1295	29831	0.38%	0.068%
109	7.684	7.665	7.759	VV	784	30570	0.39%	0.070%
110	7.776	7.759	7.809	VV	529	10844	0.14%	0.025%
111	7.814	7.809	7.825	VV	499	3625	0.05%	0.008%
112	7.839	7.825	7.861	VV	470	8893	0.11%	0.020%
113	7.879	7.861	7.902	VV	378	8201	0.11%	0.019%
114	7.923	7.902	7.961	VV	3382	48773	0.63%	0.111%
115	7.967	7.961	7.990	VV	565	5879	0.08%	0.013%
116	8.016	7.990	8.027	VV	716	10408	0.13%	0.024%
117	8.035	8.027	8.050	VV	774	10149	0.13%	0.023%
118	8.069	8.050	8.095	VV	1127	19162	0.25%	0.044%
119	8.117	8.095	8.134	VV	914	14782	0.19%	0.034%
120	8.147	8.134	8.180	VV	947	13387	0.17%	0.031%
121	8.202	8.180	8.404	VV	334695	4809796	61.79%	10.977%
122	8.410	8.404	8.442	VV	2317	49820	0.64%	0.114%
123	8.459	8.442	8.505	VV	2619	70783	0.91%	0.162%
124	8.513	8.505	8.537	VV	1266	19560	0.25%	0.045%
125	8.564	8.537	8.607	VV	1258	37992	0.49%	0.087%
126	8.636	8.607	8.722	VV	56509	658265	8.46%	1.502%
127	8.747	8.722	8.806	VV	4669	94990	1.22%	0.217%
128	8.823	8.806	8.845	VV	1183	22359	0.29%	0.051%
129	8.870	8.845	8.902	VV	1211	29536	0.38%	0.067%
130	8.924	8.902	8.942	VV	854	15355	0.20%	0.035%
131	8.949	8.942	8.992	VV	822	16571	0.21%	0.038%
132	9.017	8.992	9.074	VV	999	31865	0.41%	0.073%
133	9.095	9.074	9.158	VV	1245	22761	0.29%	0.052%
134	9.193	9.158	9.230	VV	433	12473	0.16%	0.028%
135	9.252	9.230	9.285	VV	616	11236	0.14%	0.026%
136	9.307	9.285	9.365	VV	783	12834	0.16%	0.029%
137	9.385	9.365	9.426	PV	466	12136	0.16%	0.028%
138	9.449	9.426	9.495	VV	581	13781	0.18%	0.031%
139	9.521	9.495	9.572	VV	1838	30773	0.40%	0.070%
140	9.588	9.572	9.639	VV	718	19760	0.25%	0.045%
141	9.647	9.639	9.674	VV	541	5867	0.08%	0.013%

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142	9.687	9.674	9.727	VV	377	5498	0.07%	0.013%
143	9.783	9.727	9.804	VV	459	12423	0.16%	0.028%
144	9.822	9.804	9.849	VV	634	10412	0.13%	0.024%
145	9.908	9.849	9.925	VV	782	19027	0.24%	0.043%
146	9.933	9.925	9.959	VV	420	7984	0.10%	0.018%
147	9.976	9.959	9.989	VV	504	7397	0.10%	0.017%
148	10.013	9.989	10.037	VV	1118	19098	0.25%	0.044%
149	10.047	10.037	10.060	VV	399	4316	0.06%	0.010%
150	10.103	10.060	10.132	VV	829	20135	0.26%	0.046%
151	10.138	10.132	10.159	VV	492	6080	0.08%	0.014%
152	10.187	10.159	10.208	VV	1037	19432	0.25%	0.044%
153	10.222	10.208	10.239	VV	539	9416	0.12%	0.021%
154	10.256	10.239	10.280	VV	1350	21065	0.27%	0.048%
155	10.293	10.280	10.312	VV	746	11046	0.14%	0.025%
156	10.363	10.312	10.389	VV	2239	52804	0.68%	0.121%
157	10.406	10.389	10.422	VV	640	10777	0.14%	0.025%
158	10.433	10.422	10.444	VV	641	7714	0.10%	0.018%
159	10.455	10.444	10.485	VV	787	13114	0.17%	0.030%
160	10.528	10.485	10.559	VV	648	20003	0.26%	0.046%
161	10.565	10.559	10.585	VV	472	5295	0.07%	0.012%
162	10.603	10.585	10.616	VV	479	6165	0.08%	0.014%
163	10.634	10.616	10.646	VV	671	8514	0.11%	0.019%
164	10.663	10.646	10.684	VV	989	13711	0.18%	0.031%
165	10.712	10.684	10.739	VV	507	11651	0.15%	0.027%
166	10.763	10.739	10.784	VV	376	7769	0.10%	0.018%
167	10.798	10.784	10.818	VV	309	5731	0.07%	0.013%
168	10.847	10.818	10.862	VV	515	9487	0.12%	0.022%
169	10.880	10.862	10.915	VV	1406	23205	0.30%	0.053%
170	10.944	10.915	10.980	VV	2483	43001	0.55%	0.098%
171	10.988	10.980	11.012	VV	628	10227	0.13%	0.023%
172	11.030	11.012	11.054	VV	751	14650	0.19%	0.033%
173	11.062	11.054	11.078	VV	538	6072	0.08%	0.014%
174	11.091	11.078	11.120	VV	580	8794	0.11%	0.020%
175	11.148	11.120	11.170	VV	892	17594	0.23%	0.040%
176	11.185	11.170	11.201	VV	790	11027	0.14%	0.025%
177	11.235	11.201	11.385	VV	681535	7405929	95.14%	16.902%
178	11.410	11.385	11.449	VV	2570	47914	0.62%	0.109%
179	11.469	11.449	11.478	VV	721	10991	0.14%	0.025%
180	11.514	11.478	11.545	VV	1402	35425	0.46%	0.081%
181	11.565	11.545	11.583	VV	1850	30773	0.40%	0.070%
182	11.595	11.583	11.625	VV	1635	31508	0.40%	0.072%
183	11.656	11.625	11.725	VV	173007	2068559	26.57%	4.721%
184	11.737	11.725	11.777	VV	1131	30912	0.40%	0.071%
185	11.812	11.777	11.841	VV	1545	41318	0.53%	0.094%
186	11.865	11.841	11.981	VV	16127	356745	4.58%	0.814%
187	11.989	11.981	12.010	VV	1205	20679	0.27%	0.047%
188	12.022	12.010	12.054	VV	1250	29364	0.38%	0.067%
189	12.102	12.054	12.147	VV	6178	121076	1.56%	0.276%
190	12.181	12.147	12.209	VV	2224	45171	0.58%	0.103%
191	12.243	12.209	12.283	VV	3173	56826	0.73%	0.130%
192	12.309	12.283	12.344	VV	2163	42521	0.55%	0.097%
193	12.356	12.344	12.399	VV	755	20479	0.26%	0.047%
194	12.402	12.399	12.461	VV	618	19121	0.25%	0.044%

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195	12.492	12.461	12.502	VV	676	14113	0.18%	0.032%
196	12.512	12.502	12.542	VV	785	15789	0.20%	0.036%
197	12.553	12.542	12.561	VV	657	6712	0.09%	0.015%
198	12.571	12.561	12.584	VV	652	7479	0.10%	0.017%
199	12.612	12.584	12.628	VV	878	18731	0.24%	0.043%
200	12.666	12.628	12.700	VV	424226	6464541	83.05%	14.754%
201	12.721	12.700	12.745	VV	203391	2436791	31.31%	5.561%
202	12.756	12.745	12.815	VV	15195	251568	3.23%	0.574%
203	12.831	12.815	12.874	VV	1644	48812	0.63%	0.111%
204	12.902	12.874	12.952	VV	70138	917323	11.78%	2.094%
205	12.974	12.952	13.007	VV	1967	56288	0.72%	0.128%
206	13.027	13.007	13.080	VV	1920	63841	0.82%	0.146%
207	13.100	13.080	13.196	VV	5116	175436	2.25%	0.400%
208	13.222	13.196	13.292	VV	2159	89975	1.16%	0.205%
209	13.302	13.292	13.320	VV	1374	20862	0.27%	0.048%
210	13.332	13.320	13.360	VV	1192	26674	0.34%	0.061%
211	13.381	13.360	13.412	VV	2572	47900	0.62%	0.109%
212	13.433	13.412	13.457	VV	3279	51271	0.66%	0.117%
213	13.474	13.457	13.510	VV	1447	33913	0.44%	0.077%
214	13.527	13.510	13.537	VV	1035	14544	0.19%	0.033%
215	13.541	13.537	13.565	VV	984	13723	0.18%	0.031%
216	13.589	13.565	13.600	VV	883	17289	0.22%	0.039%
217	13.609	13.600	13.635	VV	936	16267	0.21%	0.037%
218	13.687	13.635	13.697	VV	940	31156	0.40%	0.071%
219	13.726	13.697	13.746	VV	1120	26259	0.34%	0.060%
220	13.804	13.746	13.813	VV	1199	40204	0.52%	0.092%
221	13.843	13.813	13.860	VV	2844	62618	0.80%	0.143%
222	13.886	13.860	13.974	VV	3598	124895	1.60%	0.285%
223	13.995	13.974	14.017	VV	1549	30547	0.39%	0.070%
224	14.057	14.017	14.100	VV	4413	99118	1.27%	0.226%
225	14.111	14.100	14.121	VV	1171	14427	0.19%	0.033%
226	14.133	14.121	14.144	VV	1164	15261	0.20%	0.035%
227	14.157	14.144	14.178	VV	1396	22716	0.29%	0.052%
228	14.192	14.178	14.227	VV	1262	27952	0.36%	0.064%
229	14.247	14.227	14.262	VV	1074	19325	0.25%	0.044%
230	14.297	14.262	14.327	VV	1627	47167	0.61%	0.108%
231	14.335	14.327	14.344	VV	1191	11403	0.15%	0.026%
232	14.371	14.344	14.459	VV	1679	76943	0.99%	0.176%
233	14.487	14.459	14.509	VV	2417	48027	0.62%	0.110%
234	14.531	14.509	14.566	VV	3689	69786	0.90%	0.159%
235	14.590	14.566	14.667	VV	2648	77742	1.00%	0.177%
236	14.698	14.667	14.722	VV	1477	38031	0.49%	0.087%
237	14.734	14.722	14.749	VV	1142	15941	0.20%	0.036%
238	14.756	14.749	14.783	VV	1016	18298	0.24%	0.042%
239	14.795	14.783	14.805	VV	876	10333	0.13%	0.024%
240	14.852	14.805	14.875	VV	1017	39584	0.51%	0.090%
241	14.917	14.875	15.000	VV	5099	185661	2.39%	0.424%
242	15.010	15.000	15.025	VV	1842	25443	0.33%	0.058%
243	15.046	15.025	15.090	VV	3777	93478	1.20%	0.213%
244	15.112	15.090	15.164	VV	5350	110643	1.42%	0.253%
245	15.194	15.164	15.220	VV	1523	42974	0.55%	0.098%
246	15.242	15.220	15.280	VV	1460	45554	0.59%	0.104%

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247	15.290	15.280	15.317	VV	1113	22921	0.29%	0.052%
248	15.338	15.317	15.349	VV	1212	21910	0.28%	0.050%
249	15.364	15.349	15.384	VV	1265	25757	0.33%	0.059%
250	15.394	15.384	15.410	VV	1344	20374	0.26%	0.046%
251	15.443	15.410	15.475	VV	1545	51547	0.66%	0.118%
252	15.509	15.475	15.525	VV	2503	55036	0.71%	0.126%
253	15.545	15.525	15.573	VV	4025	72719	0.93%	0.166%
254	15.584	15.573	15.591	VV	1495	15715	0.20%	0.036%
255	15.615	15.591	15.671	VV	4128	98300	1.26%	0.224%
256	15.688	15.671	15.724	VV	1327	37270	0.48%	0.085%
257	15.739	15.724	15.771	VV	1303	34062	0.44%	0.078%
258	15.807	15.771	15.847	VV	1427	51909	0.67%	0.118%
259	15.930	15.847	15.970	VV	2087	111618	1.43%	0.255%
260	16.024	15.970	16.064	VV	5090	142895	1.84%	0.326%
261	16.099	16.064	16.215	VV	6571	212163	2.73%	0.484%
262	16.238	16.215	16.285	VV	1603	60177	0.77%	0.137%
263	16.309	16.285	16.324	VV	1594	34172	0.44%	0.078%
264	16.350	16.324	16.364	VV	1591	35549	0.46%	0.081%
265	16.402	16.364	16.435	VV	2890	97524	1.25%	0.223%
266	16.454	16.435	16.467	VV	3167	54335	0.70%	0.124%
267	16.487	16.467	16.513	VV	4127	83748	1.08%	0.191%
268	16.566	16.513	16.700	VV	19081	441689	5.67%	1.008%
269	16.711	16.700	16.746	VV	1607	41908	0.54%	0.096%
270	16.760	16.746	16.779	VV	1599	31010	0.40%	0.071%
271	16.797	16.779	16.828	VV	1808	51078	0.66%	0.117%
272	16.864	16.828	16.893	VV	2545	86003	1.10%	0.196%
273	16.936	16.893	16.974	VV	5365	143636	1.85%	0.328%
274	17.023	16.974	17.064	VV	7351	179806	2.31%	0.410%
275	17.077	17.064	17.108	VV	1988	49290	0.63%	0.112%
276	17.117	17.108	17.158	VV	1868	53918	0.69%	0.123%
277	17.191	17.158	17.204	VV	1964	50009	0.64%	0.114%
278	17.224	17.204	17.235	VV	1927	34708	0.45%	0.079%
279	17.252	17.235	17.269	VV	1945	36955	0.47%	0.084%
280	17.309	17.269	17.322	VV	2844	75495	0.97%	0.172%
281	17.370	17.322	17.399	VV	5234	159000	2.04%	0.363%
282	17.410	17.399	17.421	VV	2127	27413	0.35%	0.063%
283	17.460	17.421	17.500	VV	24127	415050	5.33%	0.947%
284	17.521	17.500	17.558	VV	2660	83674	1.07%	0.191%
285	17.578	17.558	17.599	VV	2456	54188	0.70%	0.124%
286	17.604	17.599	17.616	VV	2114	21118	0.27%	0.048%
287	17.668	17.616	17.703	VV	2640	116717	1.50%	0.266%
288	17.739	17.703	17.767	VV	4032	116392	1.50%	0.266%
289	17.791	17.767	17.837	VV	5287	148126	1.90%	0.338%
290	17.890	17.837	17.925	VV	4445	159318	2.05%	0.364%
291	17.934	17.925	17.964	VV	2368	53015	0.68%	0.121%
292	17.968	17.964	17.980	VV	2409	22428	0.29%	0.051%
293	17.987	17.980	18.000	VV	2292	26920	0.35%	0.061%
294	18.010	18.000	18.024	VV	2357	31301	0.40%	0.071%
295	18.041	18.024	18.073	VV	2412	69509	0.89%	0.159%
296	18.084	18.073	18.098	VV	2337	33973	0.44%	0.078%
297	18.111	18.098	18.140	VV	2416	58513	0.75%	0.134%
298	18.197	18.140	18.227	VV	5883	192231	2.47%	0.439%
299	18.233	18.227	18.264	VV	3164	62869	0.81%	0.143%

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300	18.301	18.264	18.349	VV	10406	244660	3.14%	0.558%
301	18.356	18.349	18.377	VV	2824	45311	0.58%	0.103%
302	18.415	18.377	18.429	VV	2692	81044	1.04%	0.185%
303	18.444	18.429	18.470	VV	2790	67292	0.86%	0.154%
304	18.539	18.470	18.550	VV	3161	137737	1.77%	0.314%
305	18.595	18.550	18.647	VV	5078	214477	2.76%	0.489%
306	18.708	18.647	18.750	VBA	4181	220743	2.84%	0.504%
			Sum of corrected areas:			43816009		

Aromatic EPH 021125.M Wed Mar 05 23:54:16 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068369.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 15:58
Operator : YP/AJ
Sample : PB166976BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166976BL

Integration File: autoint1.e
Quant Time: Mar 05 22:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.835	4498831	39.999 ug/ml
Spiked Amount 50.000		Recovery = 80.00%	
Target Compounds			

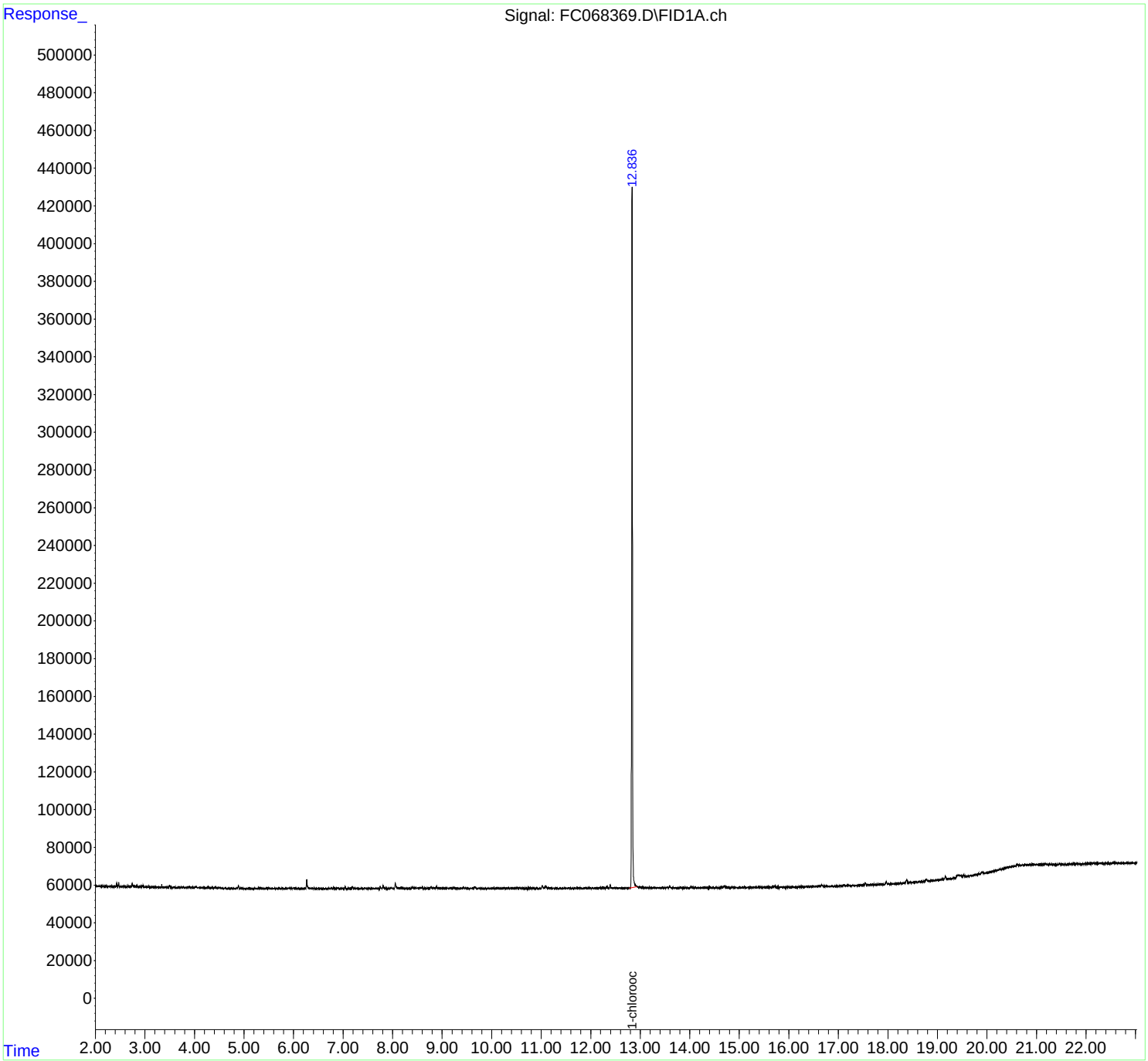
(f)=RT Delta > 1/2 Window (m)=manual int.

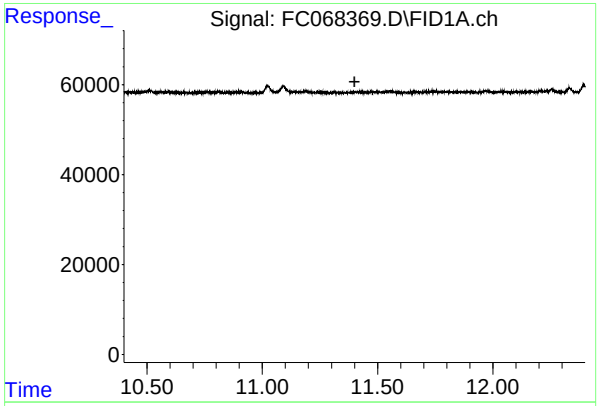
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068369.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 15:58
Operator : YP/AJ
Sample : PB166976BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166976BL

Integration File: autoint1.e
Quant Time: Mar 05 22:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

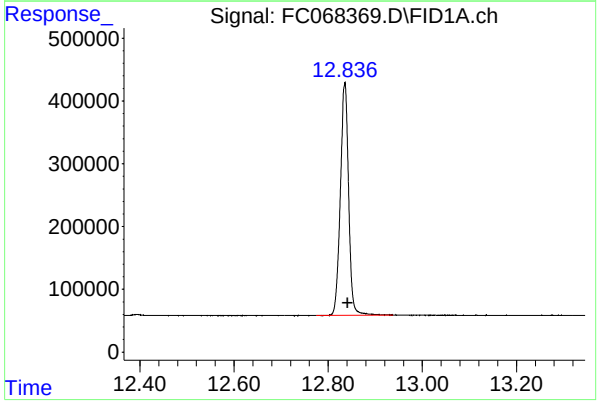




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166976BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.835 min
Delta R.T.: -0.006 min
Response: 4498831
Conc: 40.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068369.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 15:58
Sample : PB166976BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.835	12.774	12.938	BB	370023	4498831	100.00%	100.000%

Sum of corrected areas: 4498831

Aliphatic EPH 021125.M Wed Mar 05 23:05:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049159.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 15:58
Operator : YP/AJ
Sample : PB166976BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166976BL

Integration File: autoint1.e
Quant Time: Mar 05 23:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	8157579	57.003 ug/ml
Spiked Amount 50.000		Recovery = 114.01%	
6) S 2-Flurobiphenyl (SURR)	8.202	5123276	58.277 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 116.55%	
11) S ortho-Terphenyl (SURR)	11.235	8019786	49.574 ug/ml
Spiked Amount 50.000		Recovery = 99.15%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

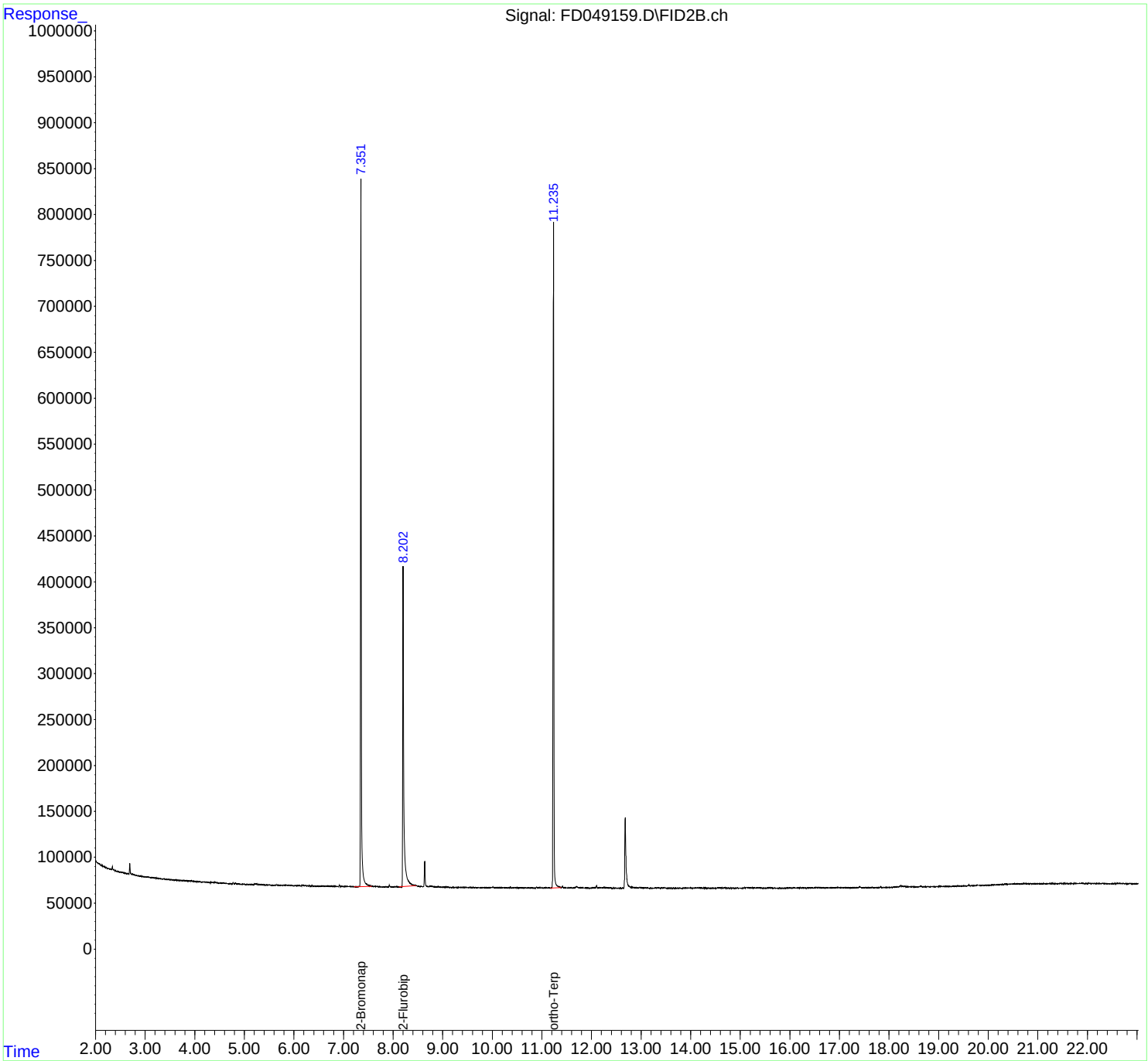
Sample Results: **FD049159.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049159.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 15:58
Operator : YP/AJ
Sample : PB166976BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

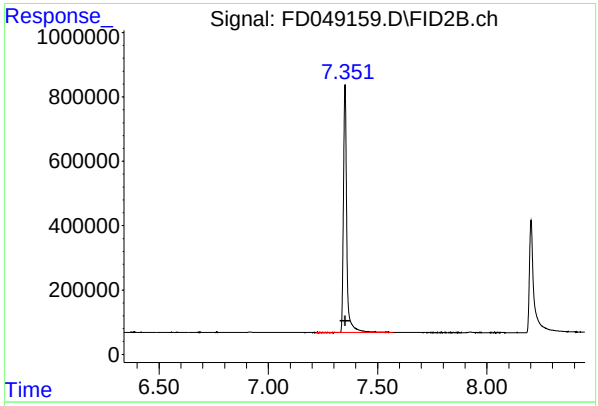
Instrument :
FID_D
ClientSampleId :
PB166976BL

Integration File: autoint1.e
Quant Time: Mar 05 23:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

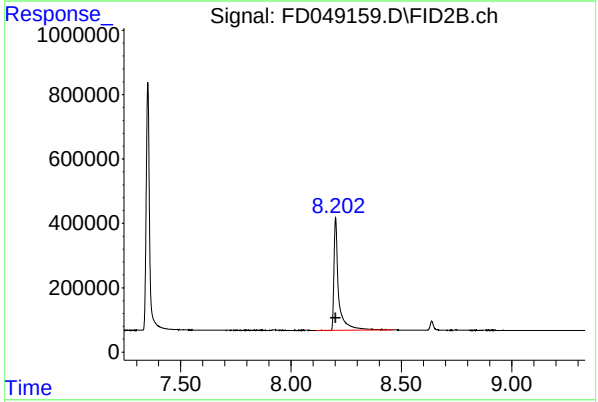


Instrument :
FID_D
ClientSampleId :
PB166976BL



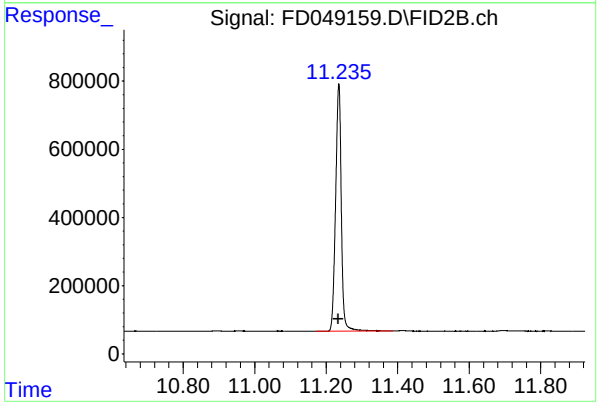
#4 2-Bromonaphthalene (SURR)

R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 8157579
Conc: 57.00 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5123276
Conc: 58.28 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 8019786
Conc: 49.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049159.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 15:58
Sample : PB166976BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.351	7.218	7.570	BB	768953	8157579	100.00%	38.297%
2	8.202	8.113	8.462	BB	348909	5123276	62.80%	24.052%
3	11.235	11.172	11.387	BV	725284	8019786	98.31%	37.650%
			Sum of corrected areas:			21300641		

Aromatic EPH 021125.M Wed Mar 05 23:45:21 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015629.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 16:47
Operator : YP\AJ
Sample : PB167058BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BL

Integration File: autoint1.e
Quant Time: Mar 11 03:21:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.986	6103809	52.432 ug/ml
Spiked Amount 50.000		Recovery = 104.86%	
6) S 2-Flurobiphenyl (SURR)	8.864	3965538	55.671 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 111.34%	
11) S ortho-Terphenyl (SURR)	11.928	6277057	42.671 ug/ml
Spiked Amount 50.000		Recovery = 85.34%	
Target Compounds			

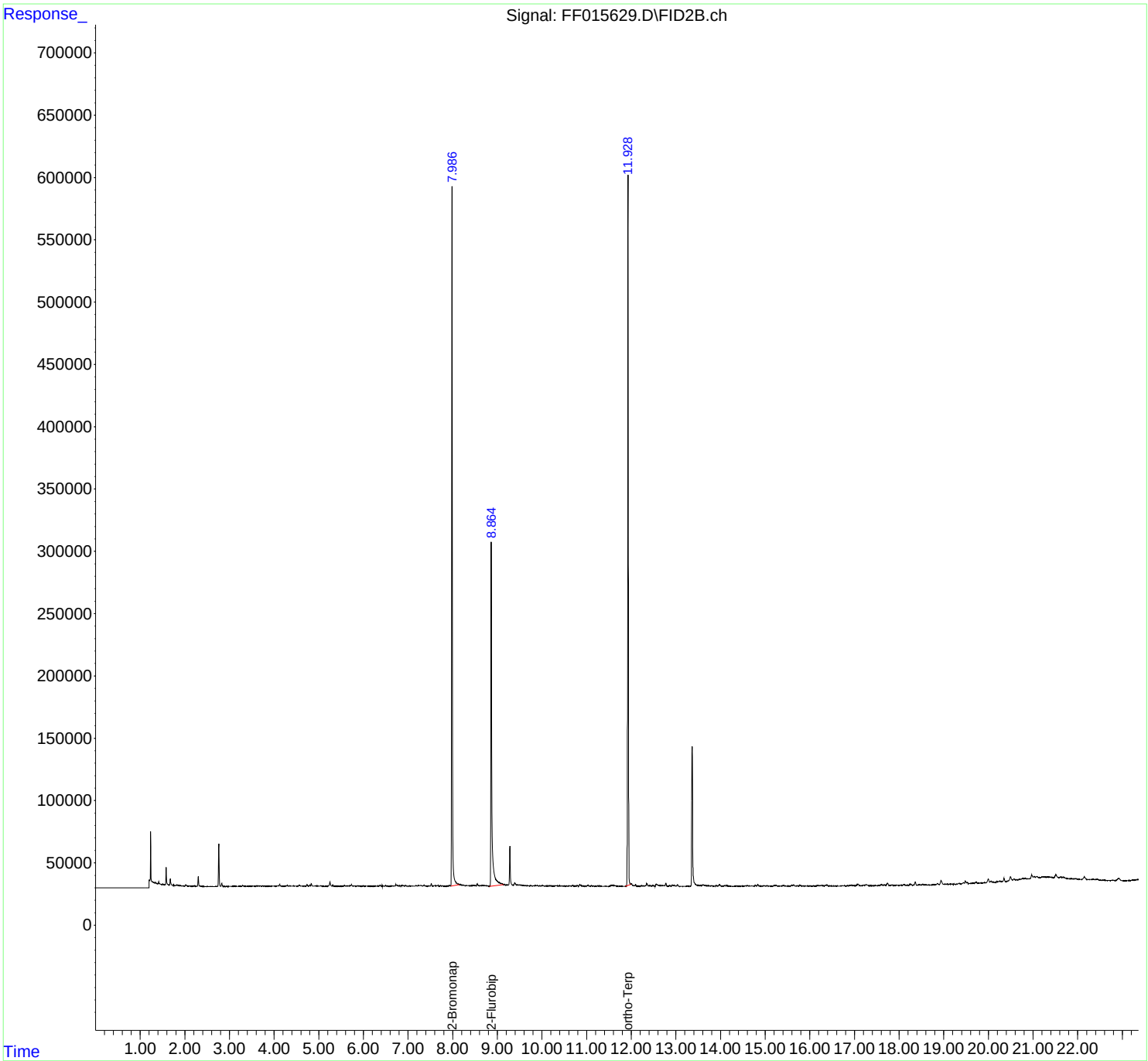
(f)=RT Delta > 1/2 Window (m)=manual int.

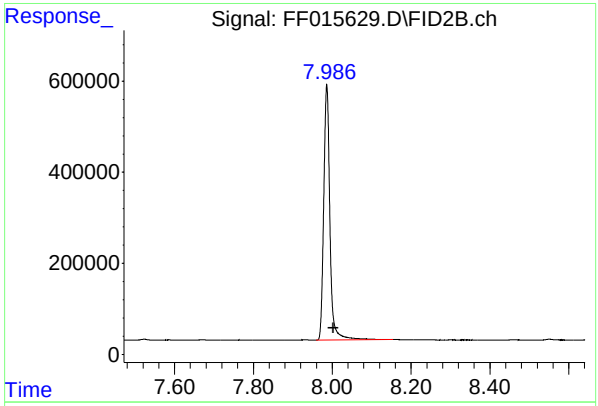
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015629.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 16:47
Operator : YP\AJ
Sample : PB167058BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BL

Integration File: autoint1.e
Quant Time: Mar 11 03:21:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

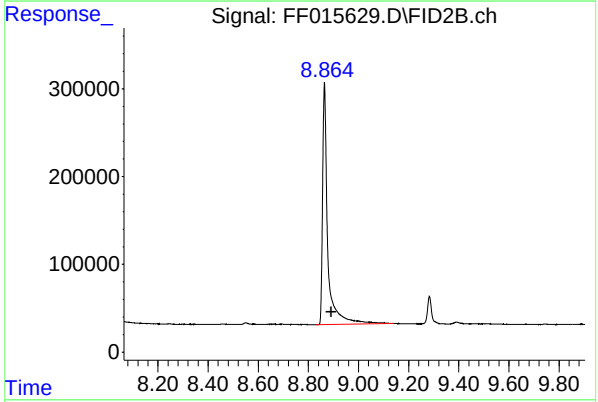




#4 2-Bromonaphthalene (SURR)

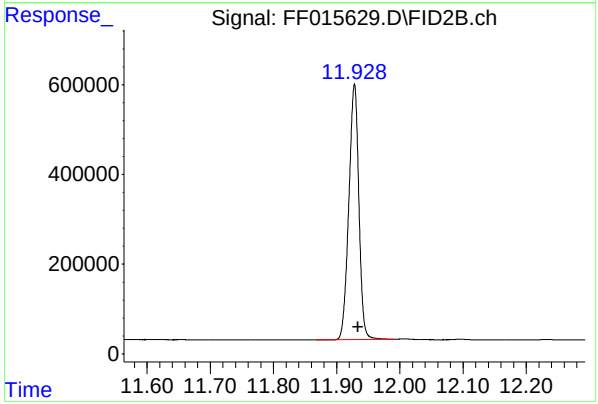
R.T.: 7.986 min
Delta R.T.: -0.017 min
Response: 6103809
Conc: 52.43 ug/ml

Instrument :
FID_F
ClientSampleId :
PB167058BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: -0.027 min
Response: 3965538
Conc: 55.67 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: -0.005 min
Response: 6277057
Conc: 42.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015629.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 16:47
Sample : PB167058BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	7.986	7.959	8.154	BB	561935	6103809	97.24%	37.340%
2	8.864	8.831	9.137	BB	275614	3965538	63.18%	24.259%
3	11.928	11.867	11.989	BV	569136	6277057	100.00%	38.400%
			Sum of corrected areas:			16346404		

Aromatic EPH 022625.M Tue Mar 11 03:57:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052708.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:02
Operator : YP\AJ
Sample : PB167058BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BL

Integration File: autoint1.e
Quant Time: Mar 11 05:22:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.358	4505970	37.109 ug/ml
Spiked Amount 50.000		Recovery = 74.22%	
Target Compounds			

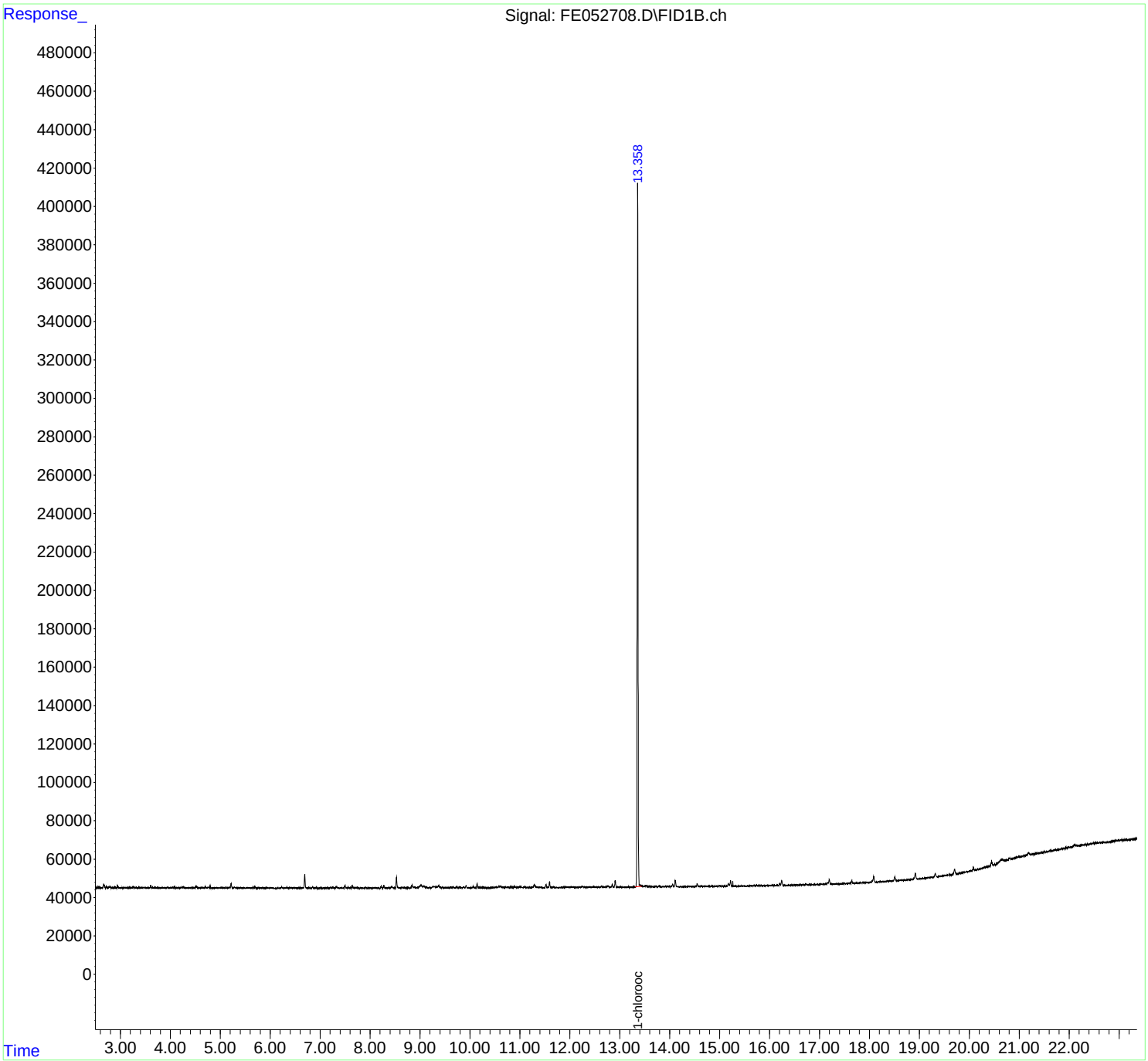
(f)=RT Delta > 1/2 Window (m)=manual int.

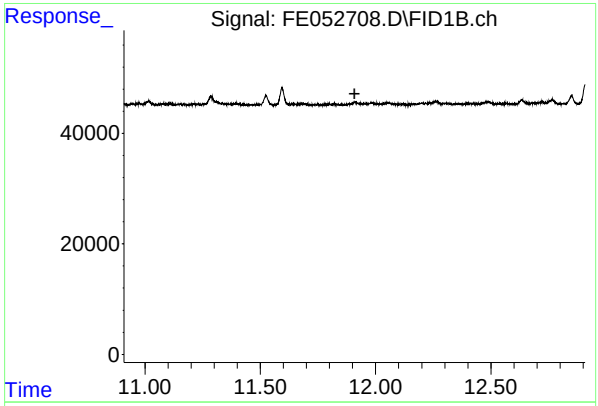
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052708.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:02
Operator : YP\AJ
Sample : PB167058BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BL

Integration File: autoint1.e
Quant Time: Mar 11 05:22:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

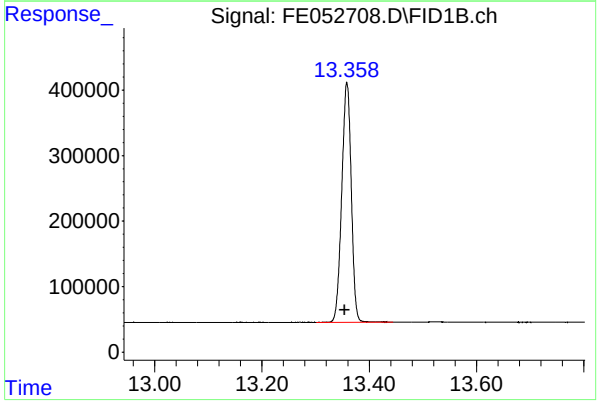




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.909 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB167058BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.358 min
Delta R.T.: 0.004 min
Response: 4505970
Conc: 37.11 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052708.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:02
Sample : PB167058BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.358	13.301	13.444	BB	366698	4505970	100.00%	100.000%
			Sum of corrected areas:			4505970		

Aliphatic EPH 030325.M Tue Mar 11 06:18:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068370.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 16:35
Operator : YP/AJ
Sample : PB166976BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166976BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Integration File: autoint1.e
Quant Time: Mar 05 22:32:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.835	4883798	43.421 ug/ml
Spiked Amount	50.000		Recovery =	86.84%
	Target Compounds			
1) T	n-Nonane (C9)	3.203	2827544	20.100 ug/mlm
2) T	n-Decane (C10)	4.259	3559909	25.128 ug/ml
4) T	n-Dodecane (C12)	6.267	4529774	32.181 ug/ml
6) T	n-Tetradecane (C14)	8.055	5054909	37.075 ug/ml
7) T	n-Hexadecane (C16)	9.651	5354888	39.097 ug/ml
8) T	n-Octadecane (C18)	11.088	5591448	40.886 ug/ml
10) T	n-Eicosane (C20)	12.395	5948137	45.654 ug/ml
11) T	n-Heneicosane (C21)	13.005	5750147	44.977 ug/ml
13) T	n-Docosane (C22)	13.591	5722955	45.410 ug/ml
14) T	n-Tetracosane (C24)	14.692	5629723	45.263 ug/ml
15) T	n-Hexacosane (C26)	15.709	5518200	45.383 ug/ml
16) T	n-Octacosane (C28)	16.659	5355981	45.096 ug/ml
17) T	n-Tricontane (C30)	17.544	5374125	44.648 ug/ml
18) T	n-Dotriacontane (C32)	18.375	5335525	45.969 ug/ml
19) T	n-Tetratriacontane (C34)	19.159	5236268	48.458 ug/ml
20) T	n-Hexatriacontane (C36)	19.897	5035566	52.362 ug/ml
21) T	n-Octatriacontane (C38)	20.609	4926005	54.796 ug/ml
22) T	n-Tetracontane (C40)	21.459	4773044	55.167 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068370.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 16:35
Operator : YP/AJ
Sample : PB166976BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

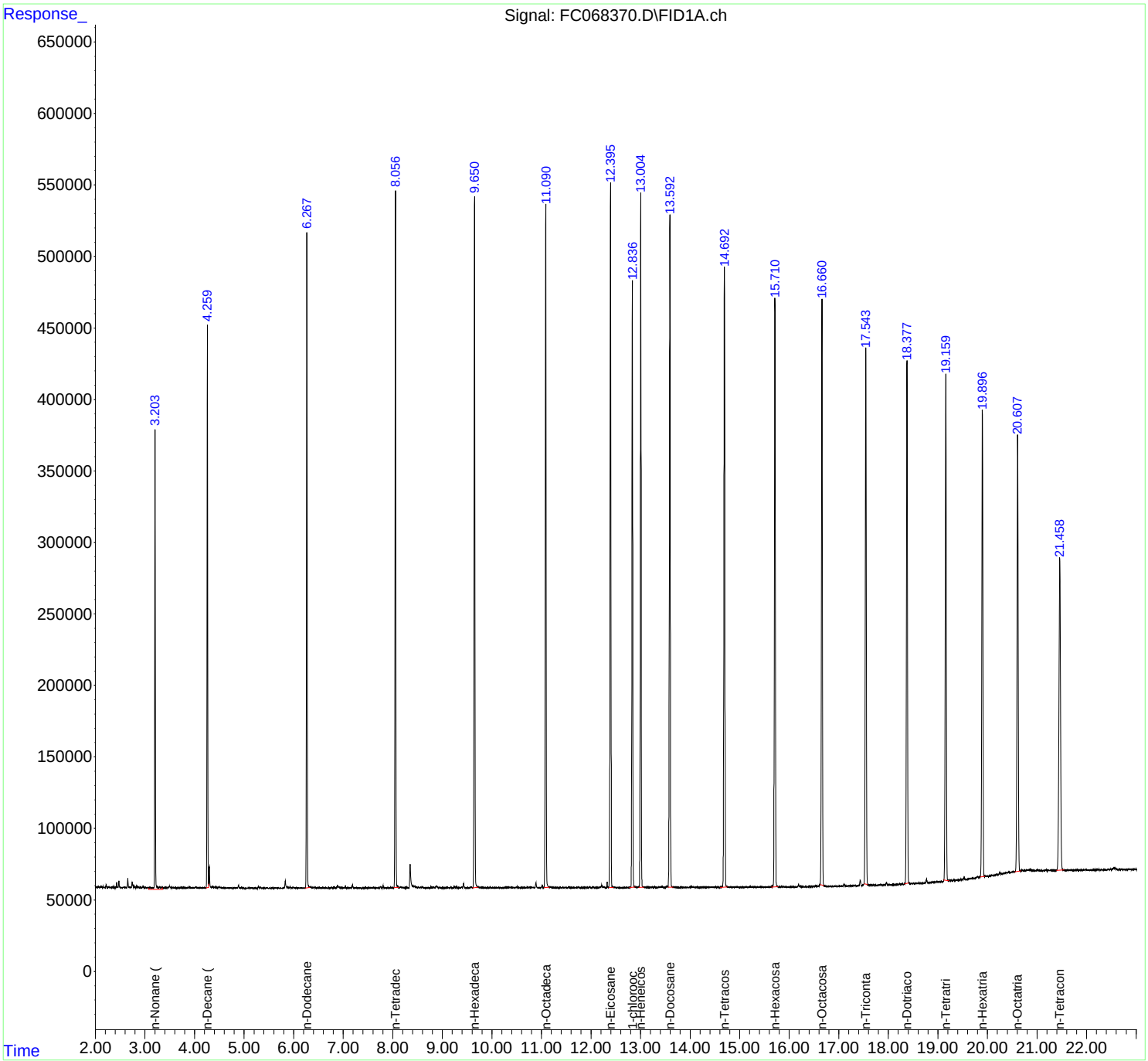
Integration File: autoint1.e
Quant Time: Mar 05 22:32:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB166976BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

12



12

Instrument :
FID_C
ClientSampleId :
PB166976BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC03052
Data File : FC068370.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 16:35
Sample : PB166976BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.203	3.171	3.264	BB	314530	2636542	44.33%	2.740%
2	4.259	4.228	4.283	BV	391552	3559909	59.85%	3.700%
3	6.267	6.228	6.331	BB	459065	4529774	76.15%	4.708%
4	8.055	8.028	8.124	BB	484233	5054909	84.98%	5.254%
5	9.651	9.611	9.728	BB	484057	5354888	90.03%	5.565%
6	11.088	11.051	11.164	BB	478566	5591448	94.00%	5.811%
7	12.395	12.354	12.458	BB	490147	5948137	100.00%	6.182%
8	12.835	12.771	12.898	BB	419014	4883798	82.11%	5.076%
9	13.005	12.961	13.068	BB	483011	5750147	96.67%	5.976%
10	13.591	13.551	13.654	BB	466071	5722955	96.21%	5.948%
11	14.692	14.611	14.754	BB	433349	5629723	94.65%	5.851%
12	15.709	15.631	15.774	BB	412568	5518200	92.77%	5.735%
13	16.659	16.621	16.699	BBA	401245	5355981	90.04%	5.567%
14	17.544	17.508	17.576	BBA	374770	5374125	90.35%	5.585%
15	18.375	18.321	18.409	BBA	362149	5335525	89.70%	5.545%
16	19.159	19.121	19.221	BB	349323	5236268	88.03%	5.442%
17	19.897	19.851	19.948	BB	324621	5035566	84.66%	5.234%
18	20.609	20.551	20.671	BB	302419	4926005	82.82%	5.120%
19	21.459	21.391	21.548	BB	217673	4773044	80.24%	4.961%
			Sum of corrected areas:			96216942		

Aliphatic EPH 021125.M Wed Mar 05 23:06:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049160.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 16:35
Operator : YP/AJ
Sample : PB166976BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166976BS

Integration File: autoint1.e
Quant Time: Mar 05 23:29:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.351	8453892	59.073 ug/ml
	Spiked Amount 50.000		Recovery = 118.15%	
6)	S 2-Flurobiphenyl (SURR)	8.202	5054241	57.492 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 114.98%	
11)	S ortho-Terphenyl (SURR)	11.236	8417347	52.031 ug/ml
	Spiked Amount 50.000		Recovery = 104.06%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.175	5552142	34.864 ug/ml
2)	T Naphthalene (C11.7)	5.691	6350091	39.991 ug/ml
3)	T 2-Methylnaphthalene (...	6.738	6465727	41.529 ug/ml
5)	T Acenaphthylene (C15.06)	8.004	7500307	46.126 ug/ml
7)	T Acenaphthene (C15.5)	8.299	8145079	49.512 ug/ml
8)	T Flouorene (C16.55)	9.077	7912127	50.188 ug/ml
9)	T Phenanthrene (C19.36)	10.465	7970215	52.888 ug/ml
10)	T Anthracene (C19.43)	10.541	8037215	53.217 ug/ml
12)	T Fluoranthene (C21.85)	12.270	8243131	53.418 ug/ml
13)	T Pyrene (C20.8)	12.563	8165876	53.005 ug/ml
14)	T Benzo[a]anthracene (C...	14.435	7533013	57.333 ug/ml
15)	T Chrysene (C27.41)	14.476	7422754	45.908 ug/ml
16)	T benzo[b]fluoranthene ...	15.984	7569764	55.015 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.018	7928873	50.201 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.359	7273189	53.583 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.728	6578388	60.199 ug/ml
20)	T Dibenz[a,h]anthracene...	17.762	7368166	47.494 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.979	7187811	49.588 ug/ml

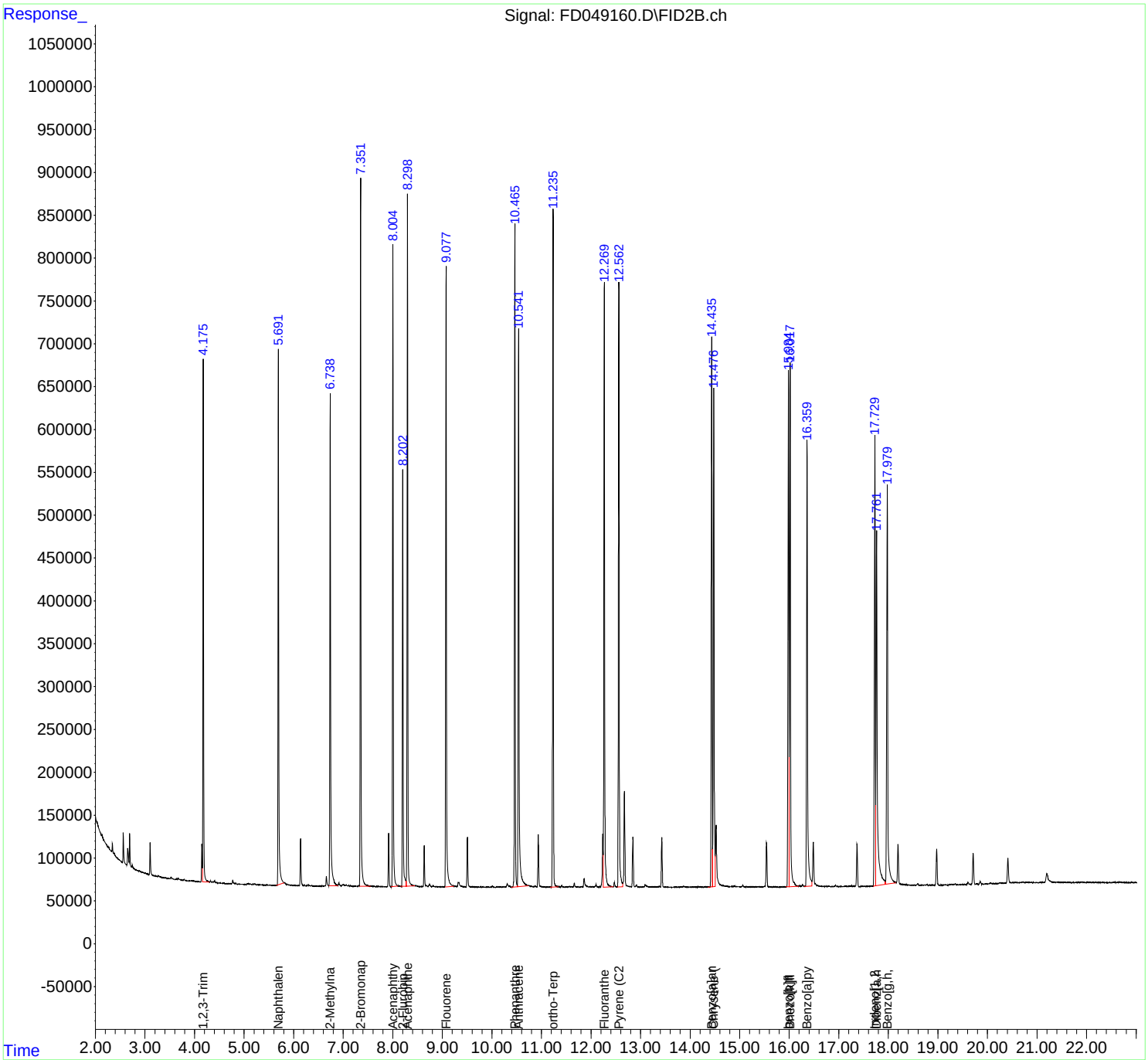
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049160.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 16:35
Operator : YP/AJ
Sample : PB166976BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166976BS

Integration File: autoint1.e
Quant Time: Mar 05 23:29:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049160.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 16:35
Sample : PB166976BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.175	4.159	4.299	VV	609832	5552142	65.68%	3.579%
2	5.691	5.645	5.806	BV	625008	6350091	75.11%	4.093%
3	6.738	6.709	6.890	BV	574734	6465727	76.48%	4.168%
4	7.351	7.327	7.554	VB	826973	8453892	100.00%	5.450%
5	8.004	7.960	8.105	BV	747937	7500307	88.72%	4.835%
6	8.202	8.149	8.270	BV	485727	5054241	59.79%	3.258%
7	8.299	8.270	8.444	VV	808027	8145079	96.35%	5.251%
8	9.077	9.052	9.232	PV	723637	7912127	93.59%	5.100%
9	10.465	10.390	10.513	BV	774039	7970215	94.28%	5.138%
10	10.541	10.513	10.739	VV	650563	8037215	95.07%	5.181%
11	11.236	11.172	11.345	BB	790904	8417347	99.57%	5.426%
12	12.270	12.247	12.444	VB	706154	8243131	97.51%	5.314%
13	12.563	12.525	12.639	BV	705656	8165876	96.59%	5.264%
14	14.435	14.359	14.453	BV	642640	7533013	89.11%	4.856%
15	14.476	14.453	14.507	VV	579499	7422754	87.80%	4.785%
16	15.984	15.930	15.998	BV	598874	7569764	89.54%	4.880%
17	16.018	15.998	16.197	VV	612039	7928873	93.79%	5.111%
18	16.359	16.295	16.457	PV	520603	7273189	86.03%	4.688%
19	17.728	17.690	17.743	BV	525918	6578388	77.81%	4.241%
20	17.762	17.743	17.940	VV	413708	7368166	87.16%	4.750%
21	17.979	17.940	18.160	VV	465448	7187811	85.02%	4.633%

Sum of corrected areas: 155129349

Aromatic EPH 021125.M Wed Mar 05 23:50:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052709.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:32
Operator : YP\AJ
Sample : PB167058BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BS

Integration File: autoint1.e
Quant Time: Mar 11 05:22:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.359	5139492	42.326 ug/ml
Spiked Amount	50.000		Recovery =	84.65%
	Target Compounds			
1) T	n-Nonane (C9)	3.251	3149781	20.315 ug/ml
2) T	n-Decane (C10)	4.513	4262023	27.130 ug/ml
4) T	n-Dodecane (C12)	6.694	5383747	34.578 ug/ml
6) T	n-Tetradecane (C14)	8.532	5974264	39.484 ug/ml
7) T	n-Hexadecane (C16)	10.148	6261316	40.954 ug/ml
8) T	n-Octadecane (C18)	11.598	6613379	43.469 ug/ml
10) T	n-Eicosane (C20)	12.913	6807737	46.894 ug/ml
11) T	n-Heneicosane (C21)	13.527	6543581	45.975 ug/ml
13) T	n-Docosane (C22)	14.116	6550624	46.031 ug/ml
14) T	n-Tetracosane (C24)	15.223	6506786	45.467 ug/ml
15) T	n-Hexacosane (C26)	16.248	6455544	45.400 ug/ml
16) T	n-Octacosane (C28)	17.200	6404791	45.042 ug/ml
17) T	n-Tricontane (C30)	18.091	6509204	44.070 ug/ml
18) T	n-Dotriacontane (C32)	18.926	6546250	45.091 ug/ml
19) T	n-Tetratriacontane (C34)	19.712	6565176	48.711 ug/ml
20) T	n-Hexatriacontane (C36)	20.454	6469074	54.443 ug/ml
21) T	n-Octatriacontane (C38)	21.199	6501240	58.603 ug/ml
22) T	n-Tetracontane (C40)	22.123	6486247	59.993 ug/ml

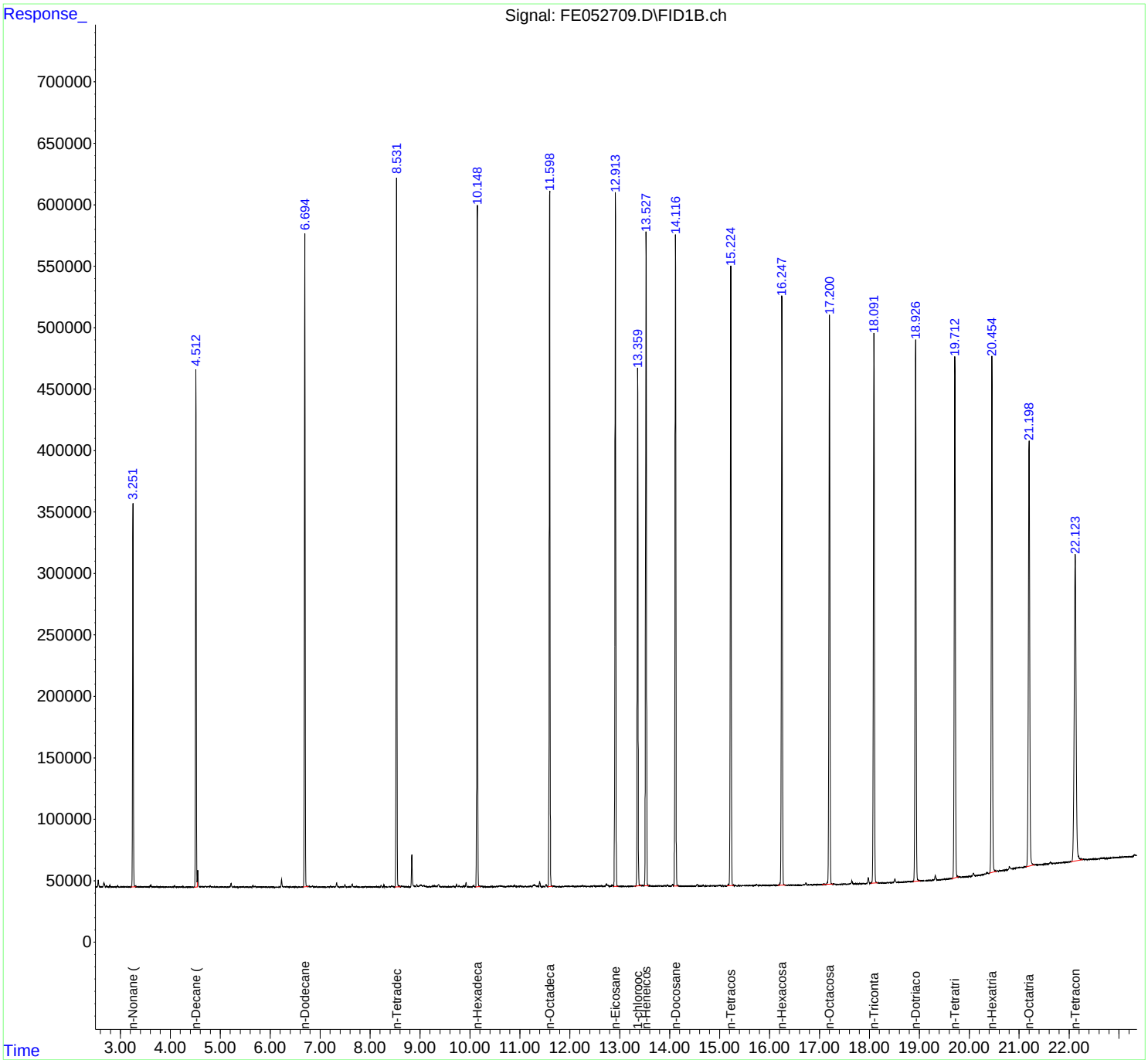
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052709.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:32
Operator : YP\AJ
Sample : PB167058BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BS

Integration File: autoint1.e
Quant Time: Mar 11 05:22:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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_E\Data\FE031025AL\
Data File : FE052709.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 20:32
Sample : PB167058BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.251	3.215	3.318	BB	312332	3149781	46.27%	2.736%
2	4.513	4.475	4.537	BV	419371	4262023	62.61%	3.702%
3	6.694	6.658	6.758	BB	531950	5383747	79.08%	4.676%
4	8.532	8.495	8.605	BB	574343	5974264	87.76%	5.189%
5	10.148	10.108	10.205	BB	554166	6261316	91.97%	5.438%
6	11.598	11.555	11.658	PB	566127	6613379	97.15%	5.744%
7	12.913	12.873	12.975	PB	566176	6807737	100.00%	5.913%
8	13.359	13.295	13.431	BB	420903	5139492	75.49%	4.464%
9	13.527	13.488	13.588	BB	534779	6543581	96.12%	5.684%
10	14.116	14.077	14.175	VB	526836	6550624	96.22%	5.690%
11	15.223	15.145	15.285	BB	506210	6506786	95.58%	5.652%
12	16.248	16.168	16.325	BB	480474	6455544	94.83%	5.607%
13	17.200	17.051	17.268	BB	456860	6404791	94.08%	5.563%
14	18.091	18.025	18.165	BB	448088	6509204	95.61%	5.654%
15	18.926	18.871	19.021	BB	440846	6546250	96.16%	5.686%
16	19.712	19.651	19.778	BB	422178	6565176	96.44%	5.702%
17	20.454	20.401	20.548	BB	420660	6469074	95.03%	5.619%
18	21.199	21.131	21.311	BB	345771	6501240	95.50%	5.647%
19	22.123	22.041	22.275	BB	249504	6486247	95.28%	5.634%

Sum of corrected areas: 115130255

Aliphatic EPH 030325.M Tue Mar 11 06:18:41 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015630.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:17
Operator : YP\AJ
Sample : PB167058BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BS

Integration File: autoint1.e
Quant Time: Mar 11 03:22:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.996	7701341	66.154 ug/ml
Spiked Amount	50.000		Recovery =	132.31%
6) S	2-Flurobiphenyl (SURR)	8.873	4814742	67.593 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	135.19%#
11) S	ortho-Terphenyl (SURR)	11.934	8163013	55.492 ug/ml
Spiked Amount	50.000		Recovery =	110.98%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.602	5019387	38.881 ug/ml
2) T	Naphthalene (C11.7)	6.273	5751283	45.064 ug/ml
3) T	2-Methylnaphthalene (...	7.369	5893791	46.547 ug/ml
5) T	Acenaphthylene (C15.06)	8.671	7008327	49.580 ug/ml
7) T	Acenaphthene (C15.5)	8.970	7577334	53.201 ug/ml
8) T	Flouorene (C16.55)	9.761	7521898	56.529 ug/ml
9) T	Phenanthrene (C19.36)	11.169	7647213	58.790 ug/ml
10) T	Anthracene (C19.43)	11.245	7699079	61.469 ug/ml
12) T	Fluoranthene (C21.85)	12.994	7965097	56.402 ug/ml
13) T	Pyrene (C20.8)	13.292	7913566	55.045 ug/ml
14) T	Benzo[a]anthracene (C...	15.177	7357313	62.634 ug/ml
15) T	Chrysene (C27.41)	15.220	8751942	58.595 ug/ml
16) T	benzo[b]fluoranthene ...	16.741	7278110	55.883 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.774	7689052	51.530 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.121	6782739	53.447 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.500	6800974	66.444 ug/ml
20) T	Dibenz[a,h]anthracene...	18.532	6920863	53.527 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.755	6885368	55.330 ug/ml

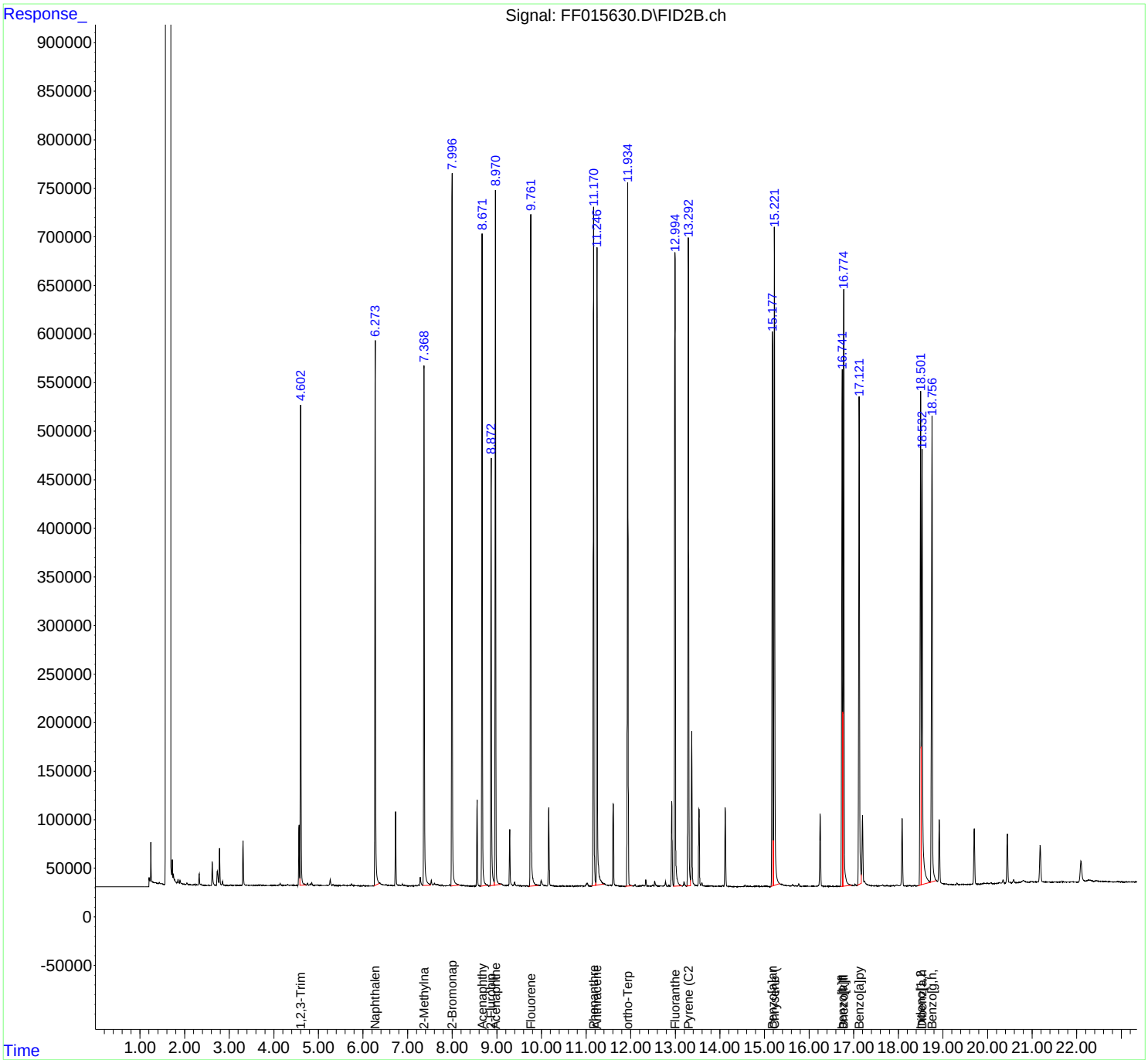
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015630.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:17
Operator : YP\AJ
Sample : PB167058BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BS

Integration File: autoint1.e
Quant Time: Mar 11 03:22:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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_F\Data\FF031025AR\
Data File : FF015630.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:17
Sample : PB167058BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.602	4.582	4.722	VB	495164	5019387	57.35%	3.365%
2	6.273	6.239	6.369	BV	560029	5751283	65.71%	3.856%
3	7.369	7.336	7.512	PV	535731	5893791	67.34%	3.952%
4	7.996	7.969	8.161	PB	732224	7701341	88.00%	5.164%
5	8.671	8.631	8.777	BV	671112	7008327	80.08%	4.699%
6	8.873	8.831	8.942	BV	439329	4814742	55.01%	3.228%
7	8.970	8.942	9.084	VV	716832	7577334	86.58%	5.081%
8	9.761	9.722	9.929	BV	691623	7521898	85.95%	5.043%
9	11.169	11.121	11.219	BV	696492	7647213	87.38%	5.127%
10	11.245	11.219	11.401	VBA	657664	7699079	87.97%	5.162%
11	11.934	11.879	12.034	BB	725105	8163013	93.27%	5.473%
12	12.994	12.960	13.154	VB	654399	7965097	91.01%	5.341%
13	13.292	13.241	13.338	BV	669022	7913566	90.42%	5.306%
14	15.177	15.139	15.197	BV	570426	7357313	84.06%	4.933%
15	15.220	15.197	15.341	VBA	678322	8751942	100.00%	5.868%
16	16.741	16.697	16.756	BV	530938	7278110	83.16%	4.880%
17	16.774	16.756	16.957	VB	610130	7689052	87.86%	5.156%
18	17.121	17.071	17.169	BV	501657	6782739	77.50%	4.548%
19	18.500	18.451	18.514	BV	506273	6800974	77.71%	4.560%
20	18.532	18.514	18.714	VV	447432	6920863	79.08%	4.640%
21	18.755	18.714	18.851	VBA	480926	6885368	78.67%	4.617%
			Sum of corrected areas:			149142433		

Aromatic EPH 022625.M Tue Mar 11 03:58:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068371.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 17:12
Operator : YP/AJ
Sample : PB166976BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166976BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Integration File: autoint1.e
Quant Time: Mar 05 22:33:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.835	4989985	44.366 ug/ml
Spiked Amount	50.000		Recovery =	88.73%
	Target Compounds			
1) T	n-Nonane (C9)	3.202	2915968	20.728 ug/mlm
2) T	n-Decane (C10)	4.259	3555925	25.100 ug/ml
4) T	n-Dodecane (C12)	6.267	4530569	32.187 ug/ml
6) T	n-Tetradecane (C14)	8.055	5057084	37.091 ug/ml
7) T	n-Hexadecane (C16)	9.651	5376555	39.255 ug/ml
8) T	n-Octadecane (C18)	11.089	5618922	41.086 ug/ml
10) T	n-Eicosane (C20)	12.395	5974676	45.858 ug/ml
11) T	n-Heneicosane (C21)	13.005	5772498	45.151 ug/ml
13) T	n-Docosane (C22)	13.591	5744572	45.582 ug/ml
14) T	n-Tetracosane (C24)	14.691	5641632	45.359 ug/ml
15) T	n-Hexacosane (C26)	15.710	5522630	45.419 ug/ml
16) T	n-Octacosane (C28)	16.658	5356837	45.104 ug/ml
17) T	n-Tricontane (C30)	17.544	5380902	44.704 ug/ml
18) T	n-Dotriacontane (C32)	18.375	5335339	45.968 ug/ml
19) T	n-Tetratriacontane (C34)	19.157	5245337	48.542 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	5039804	52.406 ug/ml
21) T	n-Octatriacontane (C38)	20.609	4927229	54.809 ug/ml
22) T	n-Tetracontane (C40)	21.461	4792754	55.394 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

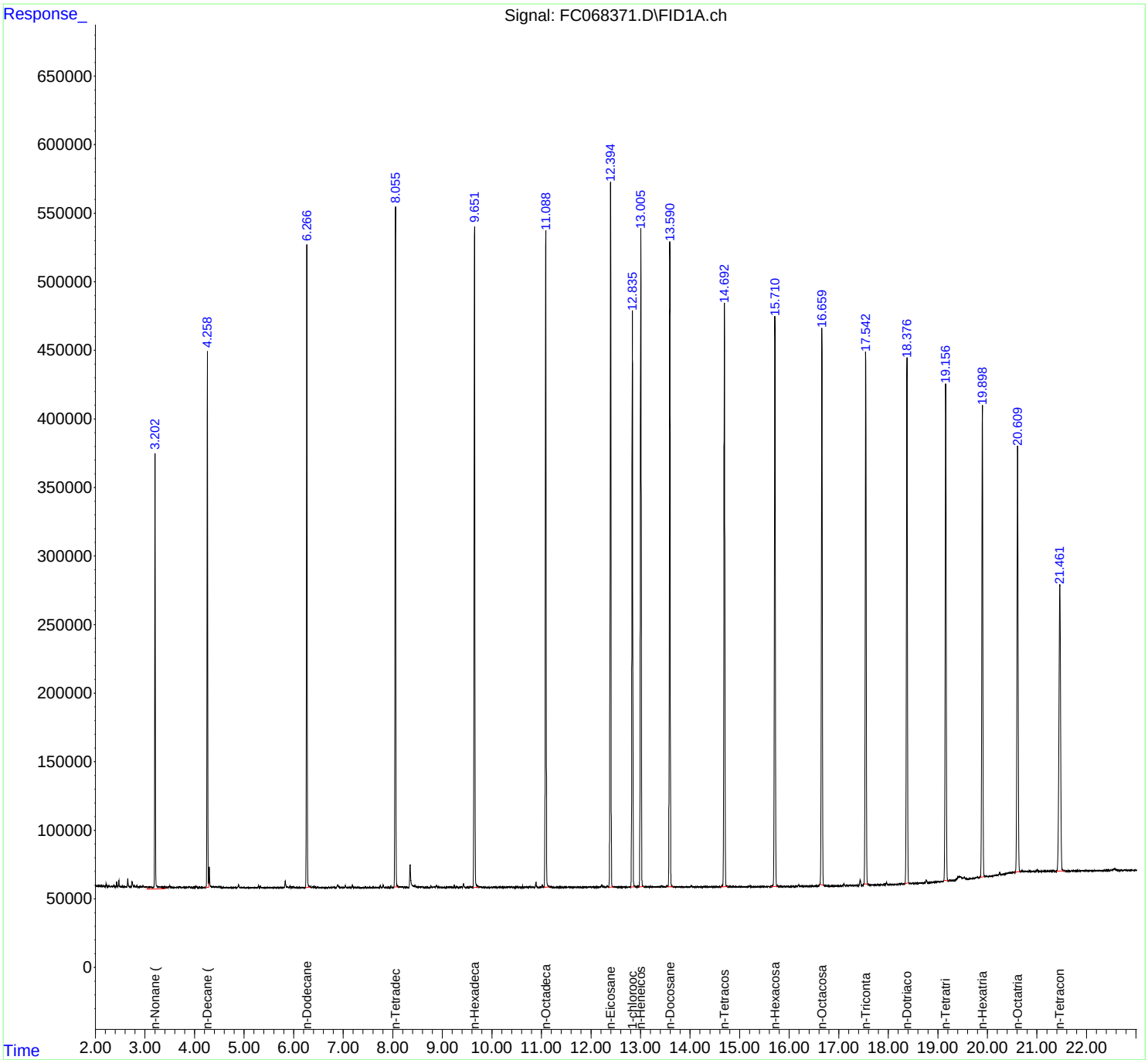
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC030525AL\
Data File : FC068371.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 17:12
Operator : YP/AJ
Sample : PB166976BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166976BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Integration File: autoint1.e
Quant Time: Mar 05 22:33:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



12

Instrument :
FID_C
ClientSampleId :
PB166976BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC03052
Data File : FC068371.D
Signal(s) : FID1A.ch
Acq On : 05 Mar 2025 17:12
Sample : PB166976BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.202	3.158	3.264	BB	313739	2633949	44.09%	2.730%
2	4.259	4.221	4.283	BV	388220	3555925	59.52%	3.685%
3	6.267	6.231	6.334	BB	469532	4530569	75.83%	4.695%
4	8.055	8.028	8.118	BB	492662	5057084	84.64%	5.241%
5	9.651	9.611	9.728	BB	482972	5376555	89.99%	5.572%
6	11.089	11.051	11.164	BB	477952	5618922	94.05%	5.823%
7	12.395	12.354	12.458	BB	512548	5974676	100.00%	6.192%
8	12.835	12.794	12.898	BB	413822	4989985	83.52%	5.171%
9	13.005	12.964	13.068	BB	470117	5772498	96.62%	5.982%
10	13.591	13.551	13.654	BB	470036	5744572	96.15%	5.953%
11	14.691	14.611	14.754	BB	423710	5641632	94.43%	5.846%
12	15.710	15.631	15.774	BB	417975	5522630	92.43%	5.723%
13	16.658	16.621	16.699	BBA	404529	5356837	89.66%	5.551%
14	17.544	17.508	17.576	BBA	383025	5380902	90.06%	5.576%
15	18.375	18.321	18.409	BBA	382661	5335339	89.30%	5.529%
16	19.158	19.121	19.218	BB	359177	5245337	87.79%	5.436%
17	19.898	19.851	19.941	BB	342461	5039804	84.35%	5.223%
18	20.609	20.551	20.664	BB	305335	4927229	82.47%	5.106%
19	21.461	21.391	21.554	BB	207538	4792754	80.22%	4.967%
			Sum of corrected areas:			96497197		

Aliphatic EPH 021125.M Wed Mar 05 23:07:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049161.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 17:12
Operator : YP/AJ
Sample : PB166976BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166976BSD

Integration File: autoint1.e
Quant Time: Mar 05 23:30:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.351	8619183	60.228 ug/ml
Spiked Amount	50.000		Recovery =	120.46%
6) S	2-Flurobiphenyl (SURR)	8.201	5168475	58.792 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	117.58%
11) S	ortho-Terphenyl (SURR)	11.236	8602132	53.174 ug/ml
Spiked Amount	50.000		Recovery =	106.35%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.175	5624480	35.318 ug/ml
2) T	Naphthalene (C11.7)	5.692	6447560	40.605 ug/ml
3) T	2-Methylnaphthalene (...	6.738	6620553	42.523 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	7668529	47.160 ug/ml
7) T	Acenaphthene (C15.5)	8.298	8295826	50.428 ug/ml
8) T	Flouorene (C16.55)	9.077	8069862	51.189 ug/ml
9) T	Phenanthrene (C19.36)	10.465	8131454	53.957 ug/ml
10) T	Anthracene (C19.43)	10.540	8198495	54.284 ug/ml
12) T	Fluoranthene (C21.85)	12.270	8348434	54.100 ug/ml
13) T	Pyrene (C20.8)	12.562	8266371	53.657 ug/ml
14) T	Benzo[a]anthracene (C...	14.434	7642958	58.170 ug/ml
15) T	Chrysene (C27.41)	14.476	7520161	46.511 ug/ml
16) T	benzo[b]fluoranthene ...	15.985	7675923	55.787 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.017	7993047	50.607 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.359	7376396	54.343 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.729	6733767	61.621 ug/ml
20) T	Dibenz[a,h]anthracene...	17.763	7529723	48.535 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.980	7291670	50.304 ug/ml

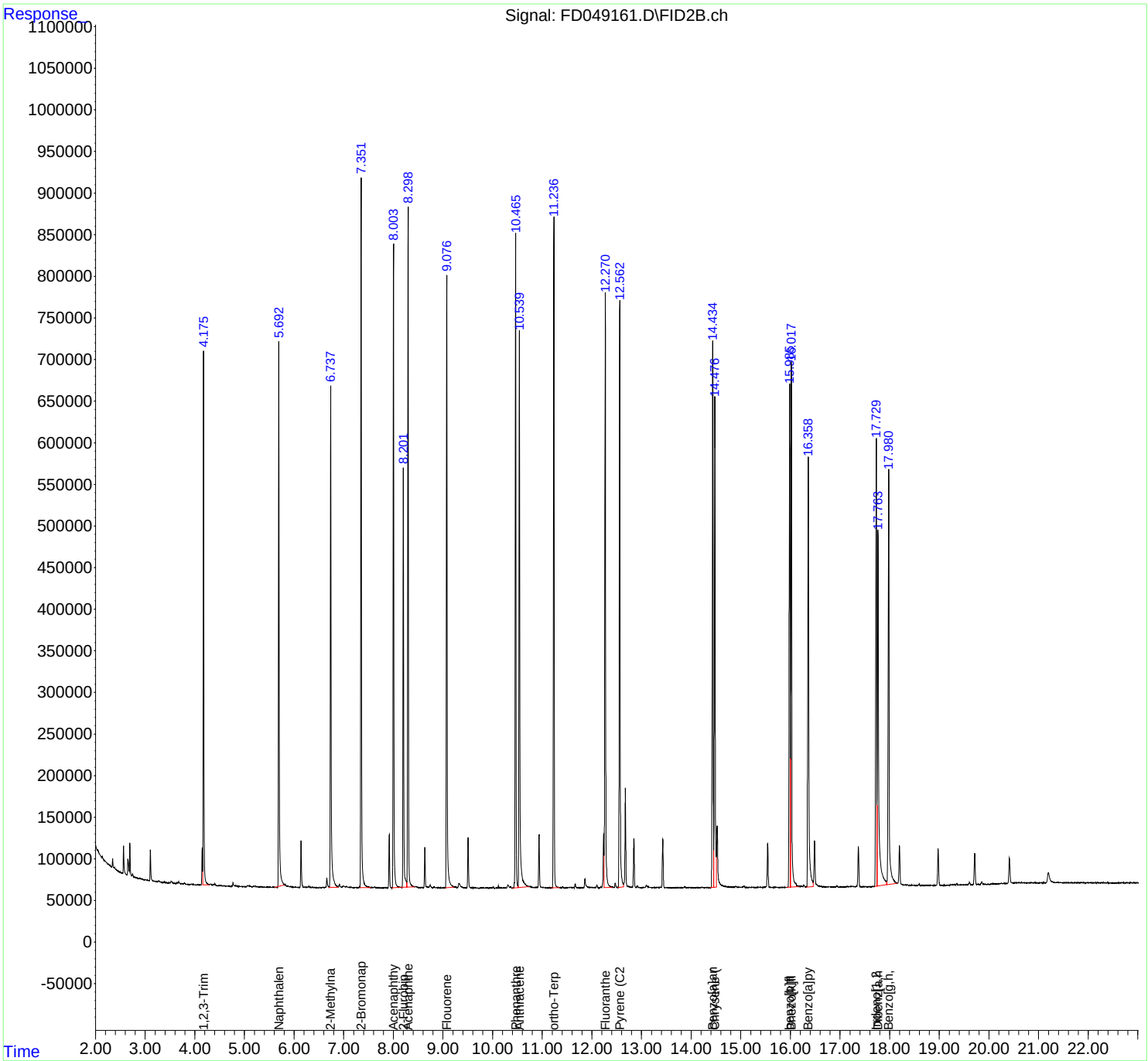
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049161.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 17:12
Operator : YP/AJ
Sample : PB166976BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166976BSD

Integration File: autoint1.e
Quant Time: Mar 05 23:30:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD030525AR\
Data File : FD049161.D
Signal(s) : FID2B.ch
Acq On : 05 Mar 2025 17:12
Sample : PB166976BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.175	4.159	4.297	VV	640771	5624480	65.26%	3.564%
2	5.692	5.618	5.807	PV	653844	6447560	74.80%	4.085%
3	6.738	6.702	6.882	VV	601549	6620553	76.81%	4.195%
4	7.351	7.326	7.542	VB	852911	8619183	100.00%	5.461%
5	8.003	7.960	8.133	BB	773719	7668529	88.97%	4.859%
6	8.201	8.145	8.271	BV	504187	5168475	59.96%	3.275%
7	8.298	8.271	8.432	VV	817291	8295826	96.25%	5.256%
8	9.077	9.043	9.228	BV	736277	8069862	93.63%	5.113%
9	10.465	10.398	10.513	BV	786847	8131454	94.34%	5.152%
10	10.540	10.513	10.740	VV	667558	8198495	95.12%	5.195%
11	11.236	11.173	11.348	BB	808109	8602132	99.80%	5.450%
12	12.270	12.247	12.415	VB	715005	8348434	96.86%	5.290%
13	12.562	12.517	12.637	BV	702607	8266371	95.91%	5.238%
14	14.434	14.375	14.453	BV	655650	7642958	88.67%	4.843%
15	14.476	14.453	14.507	VV	591816	7520161	87.25%	4.765%
16	15.985	15.930	15.998	BV	606361	7675923	89.06%	4.864%
17	16.017	15.998	16.177	VV	630458	7993047	92.74%	5.065%
18	16.359	16.318	16.458	BV	516813	7376396	85.58%	4.674%
19	17.729	17.690	17.743	BV	539084	6733767	78.13%	4.267%
20	17.763	17.743	17.938	VV	428028	7529723	87.36%	4.771%
21	17.980	17.938	18.150	VV	499171	7291670	84.60%	4.620%

Sum of corrected areas: 157824999

Aromatic EPH 021125.M Wed Mar 05 23:52:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052710.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:02
Operator : YP\AJ
Sample : PB167058BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BSD

Integration File: autoint1.e
Quant Time: Mar 11 05:23:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.359	5296371	43.618 ug/ml
Spiked Amount	50.000		Recovery =	87.24%
	Target Compounds			
1) T	n-Nonane (C9)	3.252	3184968	20.542 ug/ml
2) T	n-Decane (C10)	4.513	4302223	27.386 ug/ml
4) T	n-Dodecane (C12)	6.694	5434184	34.902 ug/ml
6) T	n-Tetradecane (C14)	8.533	6022996	39.806 ug/ml
7) T	n-Hexadecane (C16)	10.147	6298949	41.200 ug/ml
8) T	n-Octadecane (C18)	11.597	6644892	43.676 ug/ml
10) T	n-Eicosane (C20)	12.913	6831700	47.059 ug/ml
11) T	n-Heneicosane (C21)	13.528	6563747	46.117 ug/ml
13) T	n-Docosane (C22)	14.116	6576156	46.210 ug/ml
14) T	n-Tetracosane (C24)	15.223	6518581	45.550 ug/ml
15) T	n-Hexacosane (C26)	16.247	6478447	45.561 ug/ml
16) T	n-Octacosane (C28)	17.200	6430737	45.225 ug/ml
17) T	n-Tricontane (C30)	18.090	6567154	44.463 ug/ml
18) T	n-Dotriacontane (C32)	18.925	6615939	45.571 ug/ml
19) T	n-Tetratriacontane (C34)	19.710	6628461	49.180 ug/ml
20) T	n-Hexatriacontane (C36)	20.453	6495807	54.668 ug/ml
21) T	n-Octatriacontane (C38)	21.196	6520037	58.773 ug/ml
22) T	n-Tetracontane (C40)	22.121	6523072	60.334 ug/ml

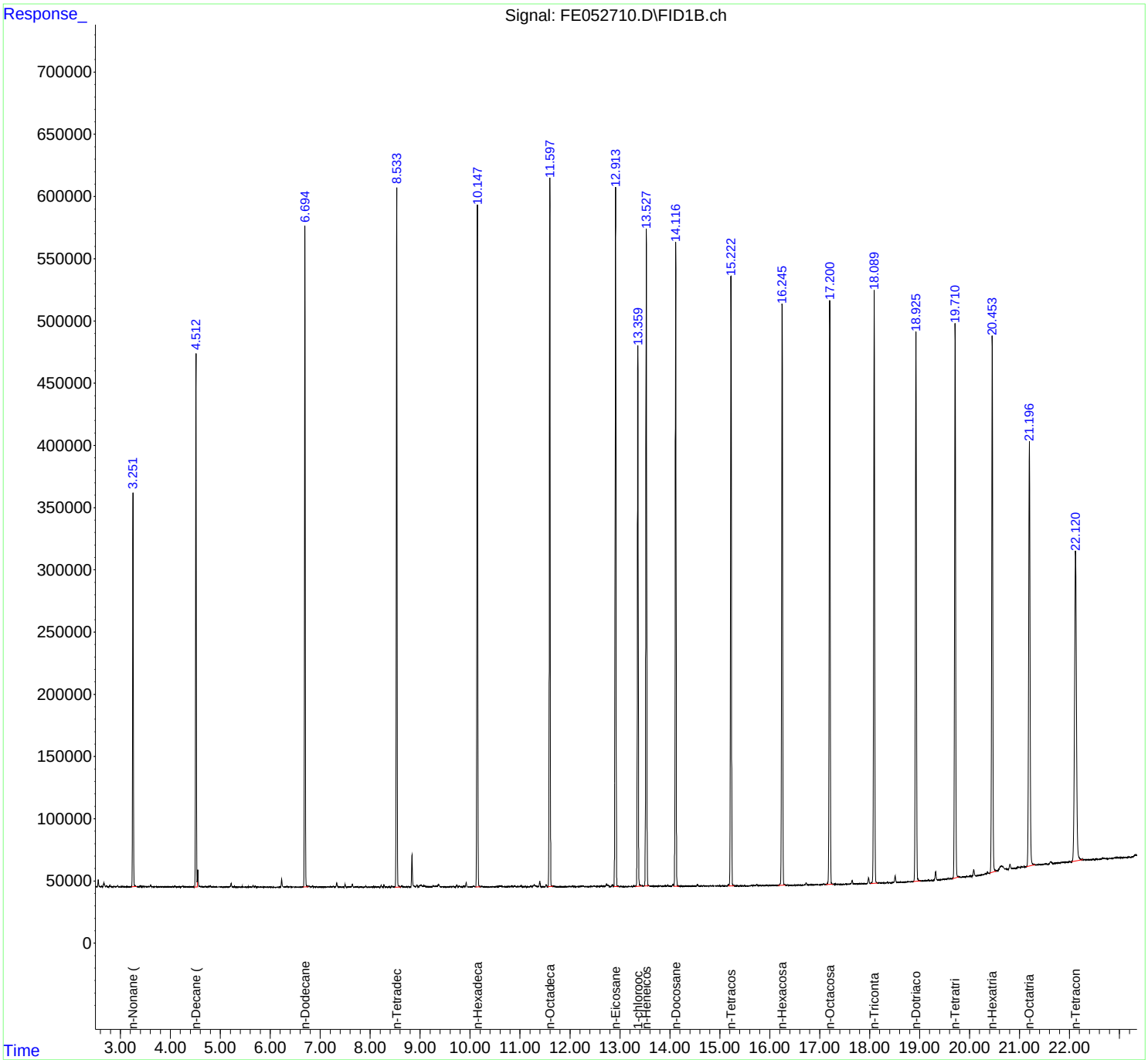
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052710.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:02
Operator : YP\AJ
Sample : PB167058BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167058BSD

Integration File: autoint1.e
Quant Time: Mar 11 05:23:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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_E\Data\FE031025AL\
Data File : FE052710.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 21:02
Sample : PB167058BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.252	3.221	3.325	BB	315967	3184968	46.62%	2.747%
2	4.513	4.475	4.537	BV	426301	4302223	62.97%	3.711%
3	6.694	6.658	6.765	BB	531530	5434184	79.54%	4.687%
4	8.533	8.495	8.608	BV	556162	6022996	88.16%	5.195%
5	10.147	10.105	10.205	BB	549322	6298949	92.20%	5.433%
6	11.597	11.558	11.658	PB	566739	6644892	97.27%	5.732%
7	12.913	12.873	12.975	PB	564884	6831700	100.00%	5.893%
8	13.359	13.301	13.441	BB	433916	5296371	77.53%	4.568%
9	13.528	13.485	13.588	BB	528155	6563747	96.08%	5.662%
10	14.116	14.077	14.185	VB	519851	6576156	96.26%	5.672%
11	15.223	15.184	15.288	VB	491283	6518581	95.42%	5.623%
12	16.247	16.161	16.315	BB	464966	6478447	94.83%	5.588%
13	17.200	17.121	17.265	BB	472858	6430737	94.13%	5.547%
14	18.090	18.025	18.161	BB	469286	6567154	96.13%	5.665%
15	18.925	18.871	19.018	BB	439295	6615939	96.84%	5.707%
16	19.710	19.651	19.785	BB	444154	6628461	97.03%	5.717%
17	20.453	20.401	20.535	BB	431882	6495807	95.08%	5.603%
18	21.196	21.131	21.308	BB	340013	6520037	95.44%	5.624%
19	22.121	22.041	22.271	BB	248353	6523072	95.48%	5.627%

Sum of corrected areas: 115934419

Aliphatic EPH 030325.M Tue Mar 11 06:19:24 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015631.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:46
Operator : YP\AJ
Sample : PB167058BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BSD

Integration File: autoint1.e
Quant Time: Mar 11 03:22:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	6861975	58.944	ug/ml
	Spiked Amount 50.000		Recovery = 117.89%		
6)	S 2-Flurobiphenyl (SURR)	8.874	4252404	59.698	ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 119.40%		
11)	S ortho-Terphenyl (SURR)	11.935	7259660	49.351	ug/ml
	Spiked Amount 50.000		Recovery = 98.70%		
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.603	4491192	34.789	ug/ml
2)	T Naphthalene (C11.7)	6.274	5225784	40.946	ug/ml
3)	T 2-Methylnaphthalene (...	7.370	5253176	41.488	ug/ml
5)	T Acenaphthylene (C15.06)	8.673	6294057	44.527	ug/ml
7)	T Acenaphthene (C15.5)	8.972	6763066	47.484	ug/ml
8)	T Flouorene (C16.55)	9.762	6670028	50.127	ug/ml
9)	T Phenanthrene (C19.36)	11.171	6781201	52.132	ug/ml
10)	T Anthracene (C19.43)	11.246	6827746	54.512	ug/ml
12)	T Fluoranthene (C21.85)	12.993	7078040	50.121	ug/ml
13)	T Pyrene (C20.8)	13.292	7020250	48.831	ug/ml
14)	T Benzo[a]anthracene (C...	15.178	6514139	55.456	ug/ml
15)	T Chrysene (C27.41)	15.221	7816361	52.331	ug/ml
16)	T benzo[b]fluoranthene ...	16.740	6492778	49.853	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.773	6889705	46.173	ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.122	6032279	47.533	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.500	5980933	58.433	ug/ml
20)	T Dibenz[a,h]anthracene...	18.534	6283187	48.595	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.756	6114763	49.138	ug/ml

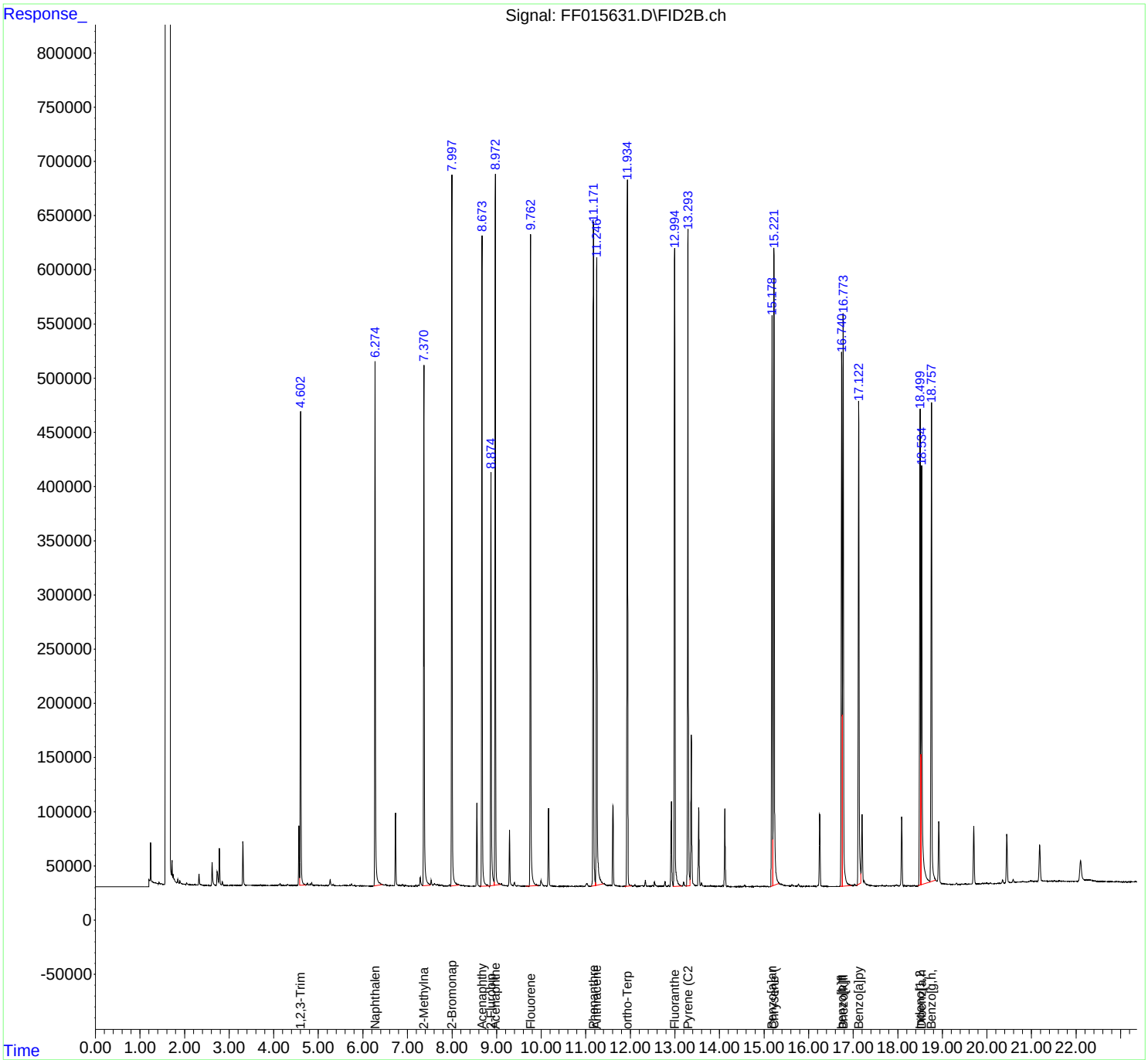
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015631.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:46
Operator : YP\AJ
Sample : PB167058BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167058BSD

Integration File: autoint1.e
Quant Time: Mar 11 03:22:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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_F\Data\FF031025AR\
Data File : FF015631.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 17:46
Sample : PB167058BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.603	4.584	4.727	VB	437069	4491192	57.46%	3.379%
2	6.274	6.245	6.437	BB	483497	5225784	66.86%	3.932%
3	7.370	7.339	7.512	PV	478895	5253176	67.21%	3.953%
4	7.997	7.969	8.160	PB	656019	6861975	87.79%	5.163%
5	8.673	8.632	8.830	BBA	596827	6294057	80.52%	4.736%
6	8.874	8.830	8.944	BV	381002	4252404	54.40%	3.200%
7	8.972	8.944	9.087	VV	657903	6763066	86.52%	5.089%
8	9.762	9.654	9.934	BB	602375	6670028	85.33%	5.019%
9	11.171	11.120	11.218	BV	611709	6781201	86.76%	5.102%
10	11.246	11.218	11.400	VBA	580008	6827746	87.35%	5.137%
11	11.935	11.867	12.022	BB	651600	7259660	92.88%	5.462%
12	12.993	12.964	13.162	VB	589805	7078040	90.55%	5.326%
13	13.292	13.240	13.340	BV	600210	7020250	89.81%	5.282%
14	15.178	15.140	15.198	BV	526661	6514139	83.34%	4.901%
15	15.221	15.198	15.340	VBA	584008	7816361	100.00%	5.881%
16	16.740	16.699	16.755	BV	492671	6492778	83.07%	4.885%
17	16.773	16.755	16.967	VB	530972	6889705	88.14%	5.184%
18	17.122	17.070	17.171	BV	445416	6032279	77.18%	4.539%
19	18.500	18.450	18.515	BV	439986	5980933	76.52%	4.500%
20	18.534	18.515	18.719	VV	386081	6283187	80.39%	4.728%
21	18.756	18.719	18.850	VBA	437363	6114763	78.23%	4.601%
			Sum of corrected areas:			132902723		

Aromatic EPH 022625.M Tue Mar 11 03:59:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015634.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:14
Operator : YP\AJ
Sample : Q1488-01MS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

Integration File: autoint1.e
Quant Time: Mar 11 03:24:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 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...	7.997	6376280	54.772 ug/ml
	Spiked Amount 50.000		Recovery = 109.54%	
6)	S 2-Flurobiphenyl (SURR)	8.875	3847204	54.010 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 108.02%	
11)	S ortho-Terphenyl (SURR)	11.934	4755517	32.328 ug/ml
	Spiked Amount 50.000		Recovery = 64.66%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.603	4287013	33.208 ug/ml
2)	T Naphthalene (C11.7)	6.275	4728989	37.054 ug/ml
3)	T 2-Methylnaphthalene (...	7.370	4613932	36.440 ug/ml
5)	T Acenaphthylene (C15.06)	8.673	5488943	38.831 ug/ml
7)	T Acenaphthene (C15.5)	8.971	5941626	41.717 ug/ml
8)	T Flouorene (C16.55)	9.762	5982248	44.958 ug/ml
9)	T Phenanthrene (C19.36)	11.170	6154497	47.314 ug/ml
10)	T Anthracene (C19.43)	11.245	6129272	48.936 ug/ml
12)	T Fluoranthene (C21.85)	12.994	6454604	45.706 ug/ml
13)	T Pyrene (C20.8)	13.292	6386504	44.423 ug/ml
14)	T Benzo[a]anthracene (C...	15.177	5803370	49.405 ug/ml
15)	T Chrysene (C27.41)	15.219	6980582	46.736 ug/ml
16)	T benzo[b]fluoranthene ...	16.740	5812993	44.633 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.772	6180819	41.422 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.120	5381621	42.406 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.499	5193699	50.742 ug/mlm
20)	T Dibenz[a,h]anthracene...	18.531	5339576	41.297 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.753	5437974	43.699 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

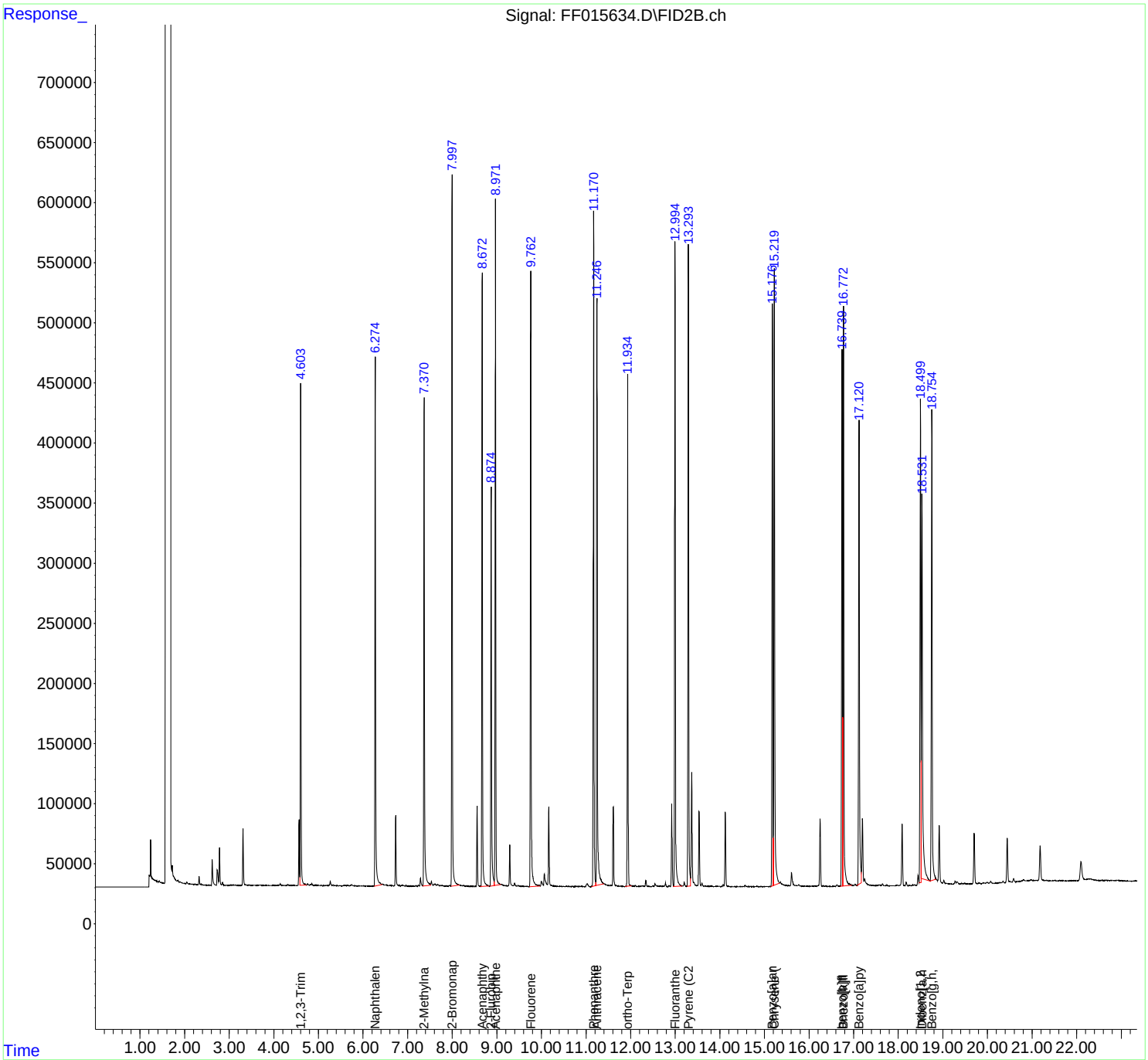
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015634.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:14
Operator : YP\AJ
Sample : Q1488-01MS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

Integration File: autoint1.e
Quant Time: Mar 11 03:24:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



12

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF03102
Data File : FF015634.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:14
Sample : Q1488-01MS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.566	4.507	4.584	BV	54787	566878	8.12%	0.444%
2	4.603	4.584	4.732	VB	419253	4287013	61.41%	3.355%
3	5.267	5.204	5.314	BV	3609	49638	0.71%	0.039%
4	6.275	6.247	6.429	BV	439443	4728989	67.74%	3.701%
5	6.733	6.684	6.792	BV	58192	632538	9.06%	0.495%
6	7.289	7.216	7.341	BV	6706	106406	1.52%	0.083%
7	7.371	7.341	7.514	VV	405738	4613932	66.10%	3.611%
8	7.535	7.514	7.572	VV	3295	43826	0.63%	0.034%
9	7.997	7.969	8.166	BB	592318	6376280	91.34%	4.990%
10	8.560	8.521	8.626	BB	66691	715981	10.26%	0.560%
11	8.673	8.631	8.830	BBA	510392	5488943	78.63%	4.295%
12	8.875	8.846	8.944	BV	332469	3847204	55.11%	3.011%
13	8.971	8.944	9.091	VV	571018	5941626	85.12%	4.649%
14	9.293	9.231	9.369	BB	34266	386854	5.54%	0.303%
15	9.762	9.729	9.974	BB	514364	5982248	85.70%	4.681%
16	9.999	9.976	10.047	BV	3892	79854	1.14%	0.062%
17	10.066	10.047	10.138	VV	9828	205939	2.95%	0.161%
18	10.167	10.138	10.234	VB	65719	768957	11.02%	0.602%
19	11.170	11.121	11.221	BV	562005	6154497	88.17%	4.816%
20	11.245	11.221	11.401	VBA	489151	6129272	87.80%	4.796%
21	11.610	11.571	11.679	BB	65557	802529	11.50%	0.628%
22	11.934	11.871	12.011	BB	426938	4755517	68.12%	3.721%
23	12.340	12.291	12.384	BB	4871	58217	0.83%	0.046%
24	12.922	12.889	12.962	PV	68602	860427	12.33%	0.673%
25	12.994	12.962	13.157	VB	539336	6454604	92.47%	5.051%
26	13.199	13.172	13.240	BBA	3322	43658	0.63%	0.034%
27	13.292	13.259	13.342	BV	534177	6386504	91.49%	4.998%
28	13.368	13.342	13.472	VB	94152	1331767	19.08%	1.042%
29	13.534	13.474	13.572	BV	61743	760942	10.90%	0.595%
30	14.121	14.092	14.174	VB	61975	770259	11.03%	0.603%
31	15.177	15.137	15.196	BV	483521	5803370	83.14%	4.541%
32	15.219	15.196	15.341	VBA	514065	6980582	100.00%	5.462%
33	15.607	15.547	15.694	BB	10636	191846	2.75%	0.150%
34	16.247	16.184	16.282	BB	56085	754934	10.81%	0.591%
35	16.740	16.702	16.755	BV	446867	5812993	83.27%	4.549%
36	16.772	16.755	16.961	VB	484127	6180819	88.54%	4.837%

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Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

A B C D E F G H I J

rteres

37	17.120	17.071	17.172	BV	387572	5381621	77.09%	4.211%
38	17.197	17.172	17.229	VV	53020	776583	1	
39	18.087	18.011	18.141	BB	51274	730166	1	
40	18.444	18.397	18.450	BBA	2594	-4776	-	
41	18.499	18.451	18.514	BV	399805	5074495	7	
42	18.531	18.514	18.712	VV	318781	5339576	7	
43	18.753	18.712	18.851	PBA	393838	5437974	77.90%	4.255%

Sum of corrected areas: 127791480

Aromatic EPH 022625.M Tue Mar 11 04:31:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052713.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 22:32
Operator : YP\AJ
Sample : Q1488-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01MS

Integration File: autoint1.e
Quant Time: Mar 11 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.358	4515939	37.191 ug/ml
Spiked Amount	50.000	Recovery	=	74.38%
	Target Compounds			
1)	T n-Nonane (C9)	3.251	3926499	25.324 ug/ml
2)	T n-Decane (C10)	4.512	4725334	30.079 ug/ml
4)	T n-Dodecane (C12)	6.694	5189852	33.333 ug/ml
6)	T n-Tetradecane (C14)	8.532	5619054	37.136 ug/ml
7)	T n-Hexadecane (C16)	10.148	6134619	40.125 ug/ml
8)	T n-Octadecane (C18)	11.598	6467491	42.510 ug/ml
10)	T n-Eicosane (C20)	12.913	6560393	45.190 ug/ml
11)	T n-Heneicosane (C21)	13.527	6286711	44.170 ug/ml
13)	T n-Docosane (C22)	14.115	6285602	44.169 ug/ml
14)	T n-Tetracosane (C24)	15.222	6226039	43.506 ug/ml
15)	T n-Hexacosane (C26)	16.246	6171430	43.401 ug/ml
16)	T n-Octacosane (C28)	17.198	6117068	43.019 ug/ml
17)	T n-Tricontane (C30)	18.088	6214716	42.076 ug/ml
18)	T n-Dotriacontane (C32)	18.924	6240074	42.982 ug/ml
19)	T n-Tetratriacontane (C34)	19.710	6279158	46.588 ug/ml
20)	T n-Hexatriacontane (C36)	20.453	6191104	52.103 ug/ml
21)	T n-Octatriacontane (C38)	21.196	6275071	56.565 ug/ml
22)	T n-Tetracontane (C40)	22.122	6329171	58.541 ug/ml

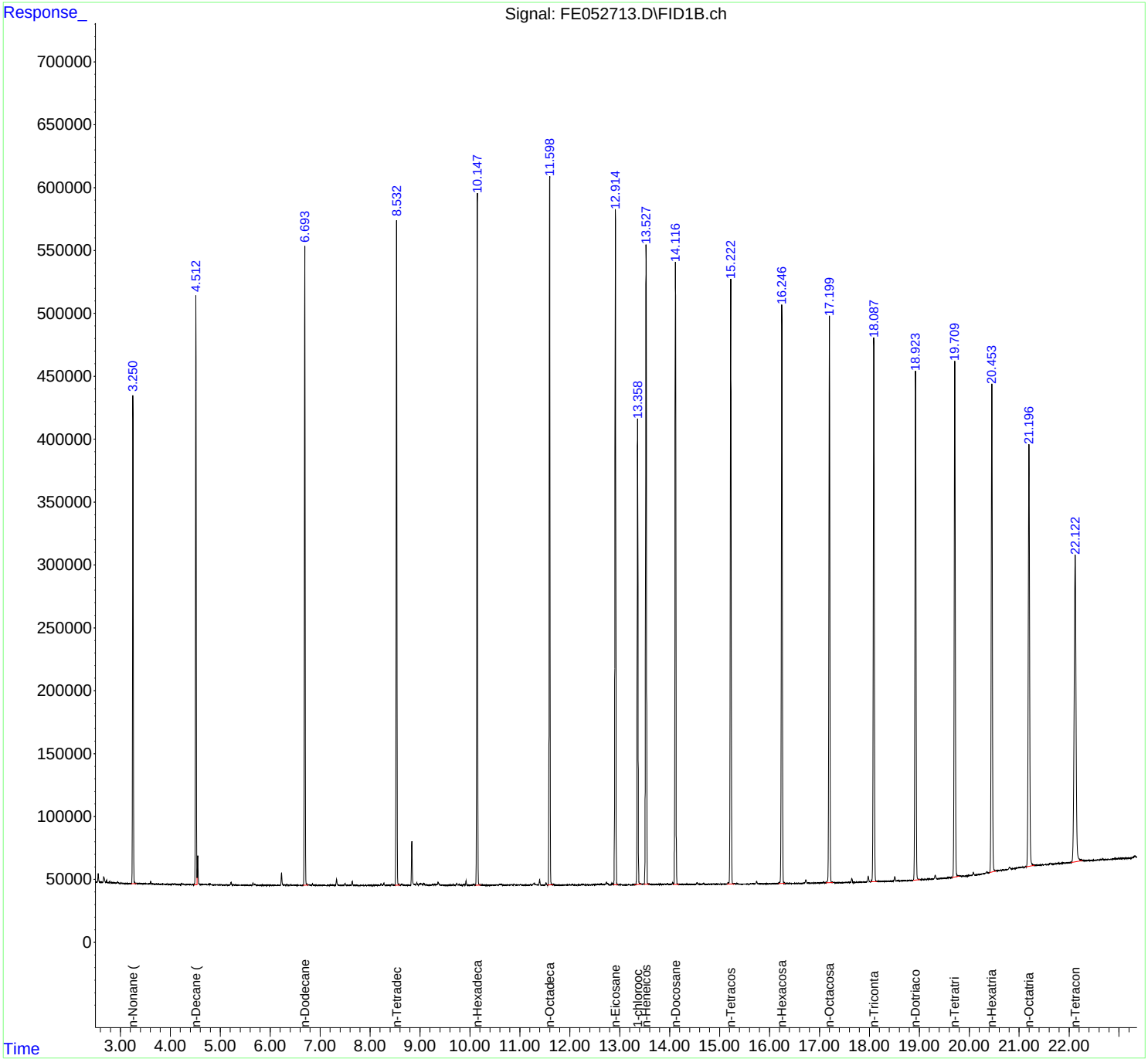
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052713.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 22:32
Operator : YP\AJ
Sample : Q1488-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01MS

Integration File: autoint1.e
Quant Time: Mar 11 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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_E\Data\FE031025AL\
Data File : FE052713.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 22:32
Sample : Q1488-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.555	2.531	2.614	BB	6999	69975	1.07%	0.062%
2	3.251	3.211	3.321	BB	388027	3926499	59.85%	3.488%
3	4.512	4.471	4.536	BV	465144	4725334	72.03%	4.198%
4	4.549	4.536	4.608	VB	22925	238289	3.63%	0.212%
5	6.228	6.201	6.274	BB	9945	109711	1.67%	0.097%
6	6.694	6.658	6.761	BB	507152	5189852	79.11%	4.611%
7	8.532	8.494	8.604	BB	526459	5619054	85.65%	4.992%
8	8.838	8.798	8.914	BB	35016	392042	5.98%	0.348%
9	10.148	10.111	10.218	BB	549665	6134619	93.51%	5.450%
10	11.598	11.554	11.661	PB	563375	6467491	98.58%	5.746%
11	12.913	12.872	12.964	PB	538710	6560393	100.00%	5.828%
12	13.358	13.298	13.434	BB	369939	4515939	68.84%	4.012%
13	13.527	13.484	13.591	BB	510532	6286711	95.83%	5.585%
14	14.115	14.077	14.188	VB	489887	6285602	95.81%	5.584%
15	15.222	15.144	15.294	BB	477358	6226039	94.90%	5.531%
16	16.246	16.178	16.314	BB	455802	6171430	94.07%	5.483%
17	17.198	17.128	17.271	BB	447635	6117068	93.24%	5.434%
18	18.088	18.021	18.154	BB	433849	6214716	94.73%	5.521%
19	18.924	18.871	19.014	BB	403051	6240074	95.12%	5.544%
20	19.710	19.651	19.804	BB	408851	6279158	95.71%	5.578%
21	20.453	20.401	20.534	BB	386412	6191104	94.37%	5.500%
22	21.196	21.131	21.311	BB	333367	6275071	95.65%	5.575%
23	22.122	22.041	22.271	BB	243759	6329171	96.48%	5.623%

Sum of corrected areas: 112565338

Aliphatic EPH 030325.M Tue Mar 11 06:21:04 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015635.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:43
Operator : YP\AJ
Sample : Q1488-01MSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 11 03:24:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.997	6125678	52.619 ug/ml
	Spiked Amount 50.000		Recovery = 105.24%	
6)	S 2-Flurobiphenyl (SURR)	8.875	3708178	52.058 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 104.12%	
11)	S ortho-Terphenyl (SURR)	11.934	4585479	31.172 ug/ml
	Spiked Amount 50.000		Recovery = 62.34%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.603	4111239	31.846 ug/ml
2)	T Naphthalene (C11.7)	6.275	4526606	35.468 ug/ml
3)	T 2-Methylnaphthalene (...	7.371	4432188	35.004 ug/ml
5)	T Acenaphthylene (C15.06)	8.673	5277450	37.335 ug/ml
7)	T Acenaphthene (C15.5)	8.971	5794370	40.683 ug/ml
8)	T Flouorene (C16.55)	9.762	5723946	43.017 ug/ml
9)	T Phenanthrene (C19.36)	11.170	5935463	45.631 ug/ml
10)	T Anthracene (C19.43)	11.245	5909263	47.179 ug/ml
12)	T Fluoranthene (C21.85)	12.993	6241118	44.194 ug/ml
13)	T Pyrene (C20.8)	13.292	6164085	42.876 ug/ml
14)	T Benzo[a]anthracene (C...	15.177	5614385	47.796 ug/ml
15)	T Chrysene (C27.41)	15.220	6749937	45.192 ug/ml
16)	T benzo[b]fluoranthene ...	16.739	5614781	43.111 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.772	5987374	40.126 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.120	5198895	40.966 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.498	4934634	48.211 ug/mlm
20)	T Dibenz[a,h]anthracene...	18.531	5179421	40.058 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.753	5263590	42.298 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

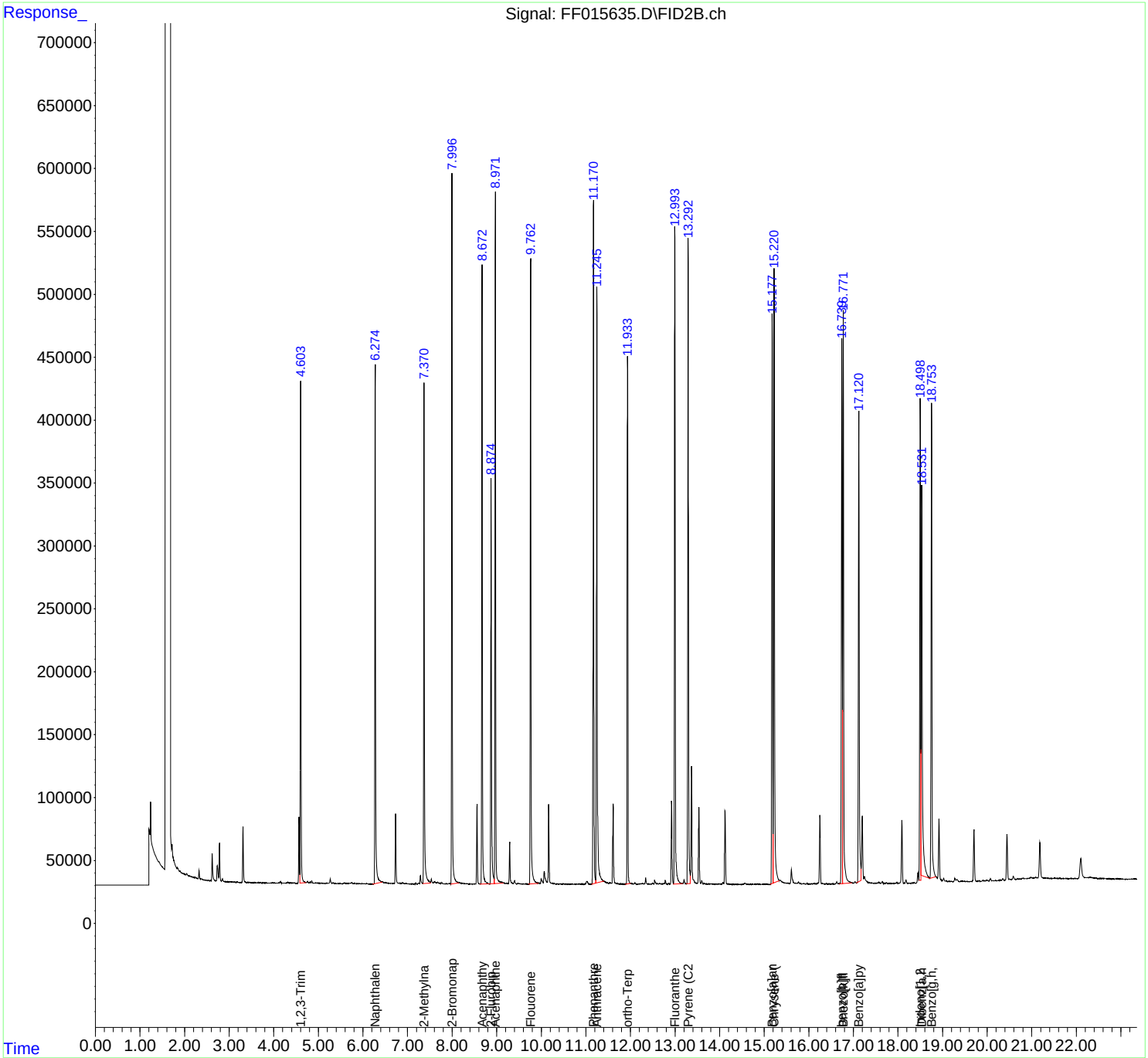
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031025AR\
Data File : FF015635.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:43
Operator : YP\AJ
Sample : Q1488-01MSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 11 03:24:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.M
Quant Title : GC Extractables
QLast Update : Wed Feb 26 12:36:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025



12

Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF03102
Data File : FF015635.D
Signal(s) : FID2B.ch
Acq On : 10 Mar 2025 19:43
Sample : Q1488-01MSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 022625.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	4.567	4.507	4.583	BV	52516	538731	7.98%	0.437%
2	4.603	4.583	4.724	VB	399109	4111239	60.91%	3.336%
3	5.268	5.207	5.312	BV	3476	48919	0.72%	0.040%
4	6.275	6.220	6.430	BV	411716	4526606	67.06%	3.673%
5	6.734	6.674	6.794	BV	55217	607055	8.99%	0.493%
6	7.289	7.212	7.340	BV	6505	99683	1.48%	0.081%
7	7.371	7.340	7.515	VV	397676	4432188	65.66%	3.596%
8	7.535	7.515	7.570	VV	3209	43167	0.64%	0.035%
9	7.997	7.972	8.159	BB	563426	6125678	90.75%	4.970%
10	8.560	8.505	8.620	BB	63166	682636	10.11%	0.554%
11	8.673	8.620	8.830	BBA	492496	5277450	78.19%	4.282%
12	8.875	8.830	8.945	BV	321617	3708178	54.94%	3.009%
13	8.971	8.945	9.149	VB	549044	5794370	85.84%	4.701%
14	9.293	9.182	9.364	BB	33051	368400	5.46%	0.299%
15	9.762	9.709	9.937	BV	498503	5723946	84.80%	4.644%
16	9.999	9.974	10.046	BV	3916	75734	1.12%	0.061%
17	10.067	10.046	10.142	VV	9529	200549	2.97%	0.163%
18	10.167	10.142	10.224	VB	62903	737667	10.93%	0.599%
19	11.170	11.120	11.220	BV	543593	5935463	87.93%	4.816%
20	11.245	11.220	11.400	VBA	473680	5909263	87.55%	4.795%
21	11.611	11.570	11.684	BB	63100	774829	11.48%	0.629%
22	11.934	11.877	12.007	BB	419933	4585479	67.93%	3.721%
23	12.339	12.294	12.385	BB	4753	58599	0.87%	0.048%
24	12.921	12.885	12.964	PV	66089	830248	12.30%	0.674%
25	12.993	12.964	13.174	VB	522106	6241118	92.46%	5.064%
26	13.292	13.240	13.342	BV	513200	6164085	91.32%	5.001%
27	13.368	13.342	13.475	VB	93058	1288213	19.08%	1.045%
28	13.533	13.479	13.574	BV	60062	735531	10.90%	0.597%
29	14.120	14.091	14.179	VB	58064	743446	11.01%	0.603%
30	15.177	15.130	15.197	BV	453476	5614385	83.18%	4.555%
31	15.220	15.197	15.340	VBA	489065	6749937	100.00%	5.477%
32	15.607	15.550	15.700	BB	10920	193123	2.86%	0.157%
33	16.247	16.160	16.287	BB	54344	731513	10.84%	0.594%
34	16.739	16.677	16.754	BV	432186	5614781	83.18%	4.556%
35	16.772	16.754	16.964	VB	457278	5987374	88.70%	4.858%
36	17.120	17.070	17.172	BV	374120	5198895	77.02%	4.218%

Page 1

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Instrument :
FID_F
ClientSampleId :
ENV-101-SB01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/11/2025
Supervised By :Ankita Jodhani 03/11/2025

A B C D E F G H I J

rteres

37	17.197	17.172	17.230	VV	50697	755287	11.19%	0.613%
38	18.086	18.012	18.144	BB	50337	704846	10	
39	18.498	18.450	18.514	BV	380560	4886053	72	
40	18.531	18.514	18.715	VV	310140	5179421	76	
41	18.753	18.715	18.850	PBA	374708	5263590	77	

Sum of corrected areas: 123

Aromatic EPH 022625.M Tue Mar 11 04:31:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052714.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:03
Operator : YP\AJ
Sample : Q1488-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01MSD

Integration File: autoint1.e
Quant Time: Mar 11 05:24:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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...	13.358	4685264	38.585 ug/ml
Spiked Amount	50.000		Recovery =	77.17%
	Target Compounds			
1) T	n-Nonane (C9)	3.251	3992647	25.751 ug/ml
2) T	n-Decane (C10)	4.512	4811237	30.626 ug/ml
4) T	n-Dodecane (C12)	6.694	5292645	33.993 ug/ml
6) T	n-Tetradecane (C14)	8.532	5735650	37.907 ug/ml
7) T	n-Hexadecane (C16)	10.147	6252593	40.897 ug/ml
8) T	n-Octadecane (C18)	11.597	6578667	43.241 ug/ml
10) T	n-Eicosane (C20)	12.912	6668442	45.934 ug/ml
11) T	n-Heneicosane (C21)	13.526	6390314	44.898 ug/ml
13) T	n-Docosane (C22)	14.115	6386541	44.878 ug/ml
14) T	n-Tetracosane (C24)	15.222	6323730	44.188 ug/ml
15) T	n-Hexacosane (C26)	16.247	6293313	44.259 ug/ml
16) T	n-Octacosane (C28)	17.198	6250184	43.955 ug/ml
17) T	n-Tricontane (C30)	18.089	6337909	42.911 ug/ml
18) T	n-Dotriacontane (C32)	18.924	6355288	43.775 ug/ml
19) T	n-Tetratriacontane (C34)	19.710	6368875	47.254 ug/ml
20) T	n-Hexatriacontane (C36)	20.452	6272863	52.791 ug/ml
21) T	n-Octatriacontane (C38)	21.195	6365465	57.380 ug/ml
22) T	n-Tetracontane (C40)	22.118	6423303	59.411 ug/ml

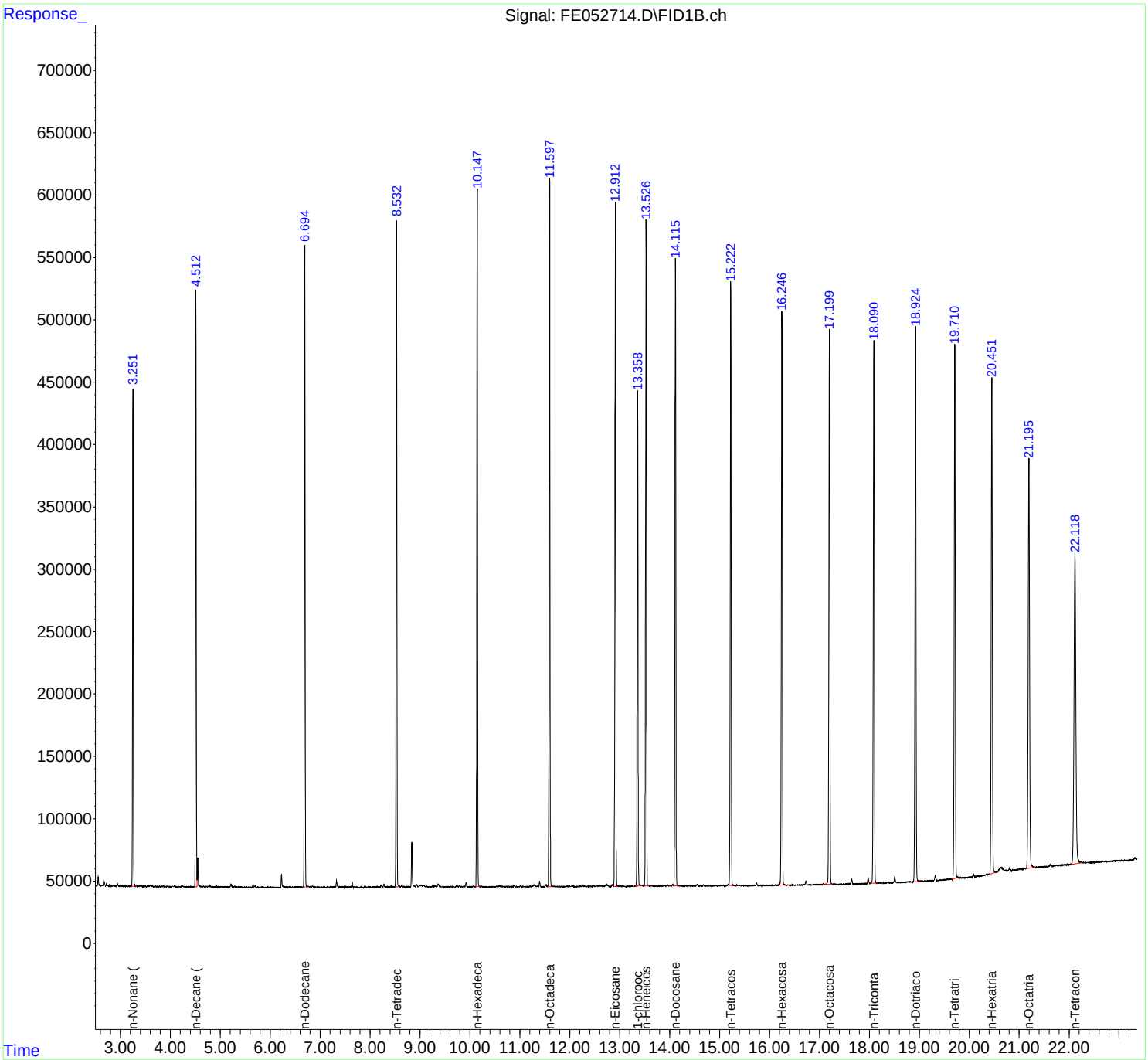
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031025AL\
Data File : FE052714.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:03
Operator : YP\AJ
Sample : Q1488-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
ENV-101-SB01MSD

Integration File: autoint1.e
Quant Time: Mar 11 05:24:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 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_E\Data\FE031025AL\
Data File : FE052714.D
Signal(s) : FID1B.ch
Acq On : 10 Mar 2025 23:03
Sample : Q1488-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.555	2.531	2.618	BB	7137	73710	1.11%	0.064%
2	3.251	3.218	3.321	BB	398705	3992647	59.87%	3.484%
3	4.512	4.474	4.536	BV	475837	4811237	72.15%	4.198%
4	4.549	4.536	4.611	VB	23212	242270	3.63%	0.211%
5	6.228	6.198	6.278	BB	10297	113007	1.69%	0.099%
6	6.694	6.651	6.754	BB	515731	5292645	79.37%	4.618%
7	8.532	8.494	8.601	BV	531369	5735650	86.01%	5.005%
8	8.837	8.701	8.901	BB	35549	387826	5.82%	0.338%
9	10.147	10.104	10.204	BB	561197	6252593	93.76%	5.456%
10	11.597	11.554	11.658	PB	572601	6578667	98.65%	5.740%
11	12.912	12.872	12.964	PB	546952	6668442	100.00%	5.819%
12	13.358	13.298	13.438	BB	396329	4685264	70.26%	4.088%
13	13.526	13.484	13.588	BB	535640	6390314	95.83%	5.576%
14	14.115	14.077	14.178	VB	503417	6386541	95.77%	5.573%
15	15.222	15.183	15.281	VB	479277	6323730	94.83%	5.518%
16	16.247	16.171	16.321	BB	457285	6293313	94.37%	5.491%
17	17.198	17.058	17.268	BB	445231	6250184	93.73%	5.454%
18	18.089	18.018	18.158	BB	435734	6337909	95.04%	5.530%
19	18.924	18.871	19.011	BB	447217	6355288	95.30%	5.546%
20	19.710	19.651	19.774	BB	428119	6368875	95.51%	5.557%
21	20.452	20.401	20.528	BB	397138	6272863	94.07%	5.474%
22	21.195	21.131	21.321	BB	328488	6365465	95.46%	5.554%
23	22.118	22.041	22.264	BB	249109	6423303	96.32%	5.605%
			Sum of corrected areas:			114601739		

Aliphatic EPH 030325.M Tue Mar 11 06:21:23 2025

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

Manual Integration Report

Sequence:	FC021125AL	Instrument	FID_c

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

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

Manual Integration Report

Sequence:	FC030525AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068368.D	n-Tetracosane (C24)	yogesh	3/6/2025 7:46:57 AM	mohammad	3/7/2025 1:37:01	Peak Integrated by Software
PB166976BS	FC068370.D	n-Nonane (C9)	yogesh	3/6/2025 7:46:59 AM	mohammad	3/7/2025 1:37:05	Peak Integrated by Software
PB166976BSD	FC068371.D	n-Nonane (C9)	yogesh	3/6/2025 7:47:00 AM	mohammad	3/7/2025 1:37:08	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD021125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049077.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:10 AM	Ankita	2/11/2025 9:13:40	Peak Integrated by Software
20 PPM AROMATIC HC	FD049079.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:12 AM	Ankita	2/11/2025 9:13:41	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD030525AR	Instrument	FID_d

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

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

Manual Integration Report

Sequence:	FE030325AL	Instrument	FID_e

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:	FE031025AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1508-01DL	FE052693.D	1-chlorooctadecane (SURR)	yogesh	3/11/2025 8:09:43 AM	Ankita	3/11/2025 9:25:02	Peak Integrated by Software
Q1508-01DL	FE052693.D	ortho-Terphenyl (SURR)	yogesh	3/11/2025 8:09:43 AM	Ankita	3/11/2025 9:25:02	Peak Integrated by Software
Q1508-02DL	FE052694.D	ortho-Terphenyl (SURR)	yogesh	3/11/2025 8:09:45 AM	Ankita	3/11/2025 9:25:03	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FF022625AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FF015532.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/26/2025 3:00:00 PM	Ankita	2/27/2025 8:55:09	Peak Integrated by Software
20 PPM AROMATIC HC	FF015534.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/26/2025 2:59:58 PM	Ankita	2/27/2025 8:55:10	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FF031025AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-01MS	FF015634.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/11/2025 7:58:21 AM	Ankita	3/11/2025 9:25:32	Peak Integrated by Software
Q1488-01MSD	FF015635.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/11/2025 7:58:22 AM	Ankita	3/11/2025 9:25:34	Peak Integrated by Software

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068250.D	10 Feb 2025 15:12	YP/AJ	Ok
2	I.BLK	FC068251.D	10 Feb 2025 15:48	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068252.D	10 Feb 2025 16:24	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068253.D	10 Feb 2025 17:01	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068254.D	10 Feb 2025 17:38	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068255.D	10 Feb 2025 18:14	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068256.D	10 Feb 2025 18:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068257.D	10 Feb 2025 19:26	YP/AJ	Ok
9	I.BLK	FC068258.D	10 Feb 2025 20:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068259.D	10 Feb 2025 21:16	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC030525AL

Review By	yogesh	Review On	3/5/2025 3:16:09 PM		
Supervise By	mohammad	Supervise On	3/8/2025 4:27:39 AM		
SubDirectory	FC030525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068366.D	05 Mar 2025 10:12	YP/AJ	Ok
2	I.BLK	FC068367.D	05 Mar 2025 13:31	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068368.D	05 Mar 2025 15:22	YP/AJ	Ok,M
4	PB166976BL	FC068369.D	05 Mar 2025 15:58	YP/AJ	Ok
5	PB166976BS	FC068370.D	05 Mar 2025 16:35	YP/AJ	Ok,M
6	PB166976BSD	FC068371.D	05 Mar 2025 17:12	YP/AJ	Ok,M
7	Q1480-33	FC068372.D	05 Mar 2025 17:50	YP/AJ	Ok
8	Q1488-13	FC068373.D	05 Mar 2025 18:27	YP/AJ	Ok
9	Q1488-14	FC068374.D	05 Mar 2025 19:04	YP/AJ	Ok
10	I.BLK	FC068375.D	05 Mar 2025 19:41	YP/AJ	Ok
11	20 PPM ALIPHATIC HC STD	FC068376.D	05 Mar 2025 20:18	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049070.D	10 Feb 2025 12:09	YP/AJ	Ok
2	I.BLK	FD049071.D	10 Feb 2025 12:45	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049072.D	10 Feb 2025 13:22	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049073.D	10 Feb 2025 13:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049074.D	10 Feb 2025 14:35	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049075.D	10 Feb 2025 15:12	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049076.D	10 Feb 2025 15:48	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049077.D	10 Feb 2025 16:24	YP/AJ	Ok,M
9	I.BLK	FD049078.D	10 Feb 2025 17:01	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049079.D	10 Feb 2025 17:38	YP/AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD030525AR

Review By	yogesh	Review On	3/5/2025 3:17:07 PM		
Supervise By	mohammad	Supervise On	3/8/2025 4:35:54 AM		
SubDirectory	FD030525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049156.D	05 Mar 2025 10:12	YP/AJ	Ok
2	I.BLK	FD049157.D	05 Mar 2025 13:31	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049158.D	05 Mar 2025 15:22	YP/AJ	Ok
4	PB166976BL	FD049159.D	05 Mar 2025 15:58	YP/AJ	Ok
5	PB166976BS	FD049160.D	05 Mar 2025 16:35	YP/AJ	Ok
6	PB166976BSD	FD049161.D	05 Mar 2025 17:12	YP/AJ	Ok
7	Q1480-33	FD049162.D	05 Mar 2025 17:50	YP/AJ	Ok
8	Q1488-13	FD049163.D	05 Mar 2025 18:27	YP/AJ	Ok
9	Q1488-14	FD049164.D	05 Mar 2025 19:04	YP/AJ	Ok
10	I.BLK	FD049165.D	05 Mar 2025 19:41	YP/AJ	Ok
11	20 PPM AROMATIC HC STD	FD049166.D	05 Mar 2025 20:18	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE030325AL

Review By	yogesh	Review On	3/3/2025 1:02:44 PM		
Supervise By	mohammad	Supervise On	3/7/2025 1:35:41 AM		
SubDirectory	FE030325AL	HP Acquire Method		HP Processing Method	FE030325AL

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	FE052572.D	03 Mar 2025 08:32	YP\AJ	Ok
2	I.BLK	FE052573.D	03 Mar 2025 09:02	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE052574.D	03 Mar 2025 11:03	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE052575.D	03 Mar 2025 11:34	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE052576.D	03 Mar 2025 12:04	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE052577.D	03 Mar 2025 12:34	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE052578.D	03 Mar 2025 13:04	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE052579.D	03 Mar 2025 13:35	YP\AJ	Ok
9	I.BLK	FE052580.D	03 Mar 2025 14:05	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE052581.D	03 Mar 2025 14:35	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE031025AL

Review By	yogesh	Review On	3/10/2025 11:00:03 AM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:11 AM		
SubDirectory	FE031025AL	HP Acquire Method		HP Processing Method	FE030325AL

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	FE052690.D	10 Mar 2025 08:38	YP\AJ	Ok
2	I.BLK	FE052691.D	10 Mar 2025 09:09	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE052692.D	10 Mar 2025 10:09	YP\AJ	Ok
4	Q1508-01DL	FE052693.D	10 Mar 2025 11:00	YP\AJ	Ok,M
5	Q1508-02DL	FE052694.D	10 Mar 2025 11:30	YP\AJ	Ok,M
6	Q1518-01DL	FE052695.D	10 Mar 2025 12:00	YP\AJ	Ok
7	I.BLK	FE052696.D	10 Mar 2025 13:00	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD	FE052697.D	10 Mar 2025 13:31	YP\AJ	Ok
9	PB167046BL	FE052698.D	10 Mar 2025 14:01	YP\AJ	Ok
10	PB167046BS	FE052699.D	10 Mar 2025 14:31	YP\AJ	Ok
11	PB167046BSD	FE052700.D	10 Mar 2025 15:01	YP\AJ	Ok
12	Q1524-01	FE052701.D	10 Mar 2025 15:32	YP\AJ	Ok
13	Q1524-01D	FE052702.D	10 Mar 2025 16:01	YP\AJ	Ok
14	Q1524-01MS	FE052703.D	10 Mar 2025 16:31	YP\AJ	Ok
15	Q1524-01MSD	FE052704.D	10 Mar 2025 17:01	YP\AJ	Ok
16	Q1524-02	FE052705.D	10 Mar 2025 17:31	YP\AJ	Ok
17	I.BLK	FE052706.D	10 Mar 2025 18:32	YP\AJ	Ok
18	20 PPM ALIPHATIC HC STD	FE052707.D	10 Mar 2025 19:02	YP\AJ	Ok
19	PB167058BL	FE052708.D	10 Mar 2025 20:02	YP\AJ	Ok
20	PB167058BS	FE052709.D	10 Mar 2025 20:32	YP\AJ	Ok
21	PB167058BSD	FE052710.D	10 Mar 2025 21:02	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE031025AL

Review By	yogesh	Review On	3/10/2025 11:00:03 AM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:11 AM		
SubDirectory	FE031025AL	HP Acquire Method		HP Processing Method	FE030325AL

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	Q1488-01	FE052711.D	10 Mar 2025 21:32	YP\AJ	Ok
23	Q1488-01D	FE052712.D	10 Mar 2025 22:02	YP\AJ	Ok
24	Q1488-01MS	FE052713.D	10 Mar 2025 22:32	YP\AJ	Ok
25	Q1488-01MSD	FE052714.D	10 Mar 2025 23:03	YP\AJ	Ok
26	Q1488-03	FE052715.D	10 Mar 2025 23:32	YP\AJ	Ok
27	Q1488-05	FE052716.D	11 Mar 2025 00:03	YP\AJ	Ok
28	Q1488-07	FE052717.D	11 Mar 2025 00:33	YP\AJ	Ok
29	Q1488-09	FE052718.D	11 Mar 2025 01:03	YP\AJ	Ok
30	Q1488-11	FE052719.D	11 Mar 2025 01:34	YP\AJ	Ok
31	Q1514-01	FE052720.D	11 Mar 2025 02:04	YP\AJ	Dilution
32	Q1514-03	FE052721.D	11 Mar 2025 02:34	YP\AJ	Ok
33	Q1514-05	FE052722.D	11 Mar 2025 03:04	YP\AJ	Ok
34	I.BLK	FE052723.D	11 Mar 2025 04:04	YP\AJ	Ok
35	20 PPM ALIPHATIC HC STD	FE052724.D	11 Mar 2025 04:34	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF022625AR

Review By	yogesh	Review On	2/26/2025 1:35:57 PM		
Supervise By	Ankita	Supervise On	2/27/2025 8:55:13 AM		
SubDirectory	FF022625AR	HP Acquire Method		HP Processing Method	FF022625AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP24202,PP24203,PP24204,PP24205
CCC	PP24203
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24206
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015525.D	25 Feb 2025 06:50	YP\AJ	Ok
2	I.BLK	FF015526.D	25 Feb 2025 07:19	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF015527.D	25 Feb 2025 09:00	YP\AJ	Ok
4	50 PPM AROMATIC HC STD2	FF015528.D	25 Feb 2025 09:30	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF015529.D	25 Feb 2025 09:59	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF015530.D	25 Feb 2025 10:28	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF015531.D	25 Feb 2025 10:58	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF015532.D	25 Feb 2025 11:27	YP\AJ	Ok,M
9	I.BLK	FF015533.D	25 Feb 2025 11:56	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF015534.D	25 Feb 2025 12:26	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF031025AR

Review By	yogesh	Review On	3/10/2025 1:31:15 PM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:39 AM		
SubDirectory	FF031025AR	HP Acquire Method		HP Processing Method	FF022625AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP24202,PP24203,PP24204,PP24205
CCC	PP24203
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24206
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015626.D	10 Mar 2025 08:35	YP\AJ	Ok
2	I.BLK	FF015627.D	10 Mar 2025 13:00	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF015628.D	10 Mar 2025 13:29	YP\AJ	Ok
4	PB167058BL	FF015629.D	10 Mar 2025 16:47	YP\AJ	Ok
5	PB167058BS	FF015630.D	10 Mar 2025 17:17	YP\AJ	Ok
6	PB167058BSD	FF015631.D	10 Mar 2025 17:46	YP\AJ	Ok
7	Q1488-01	FF015632.D	10 Mar 2025 18:15	YP\AJ	Ok
8	Q1488-01D	FF015633.D	10 Mar 2025 18:45	YP\AJ	Ok
9	Q1488-01MS	FF015634.D	10 Mar 2025 19:14	YP\AJ	Ok,M
10	Q1488-01MSD	FF015635.D	10 Mar 2025 19:43	YP\AJ	Ok,M
11	Q1488-03	FF015636.D	10 Mar 2025 20:13	YP\AJ	Ok
12	Q1488-05	FF015637.D	10 Mar 2025 20:42	YP\AJ	Ok
13	Q1488-07	FF015638.D	10 Mar 2025 21:11	YP\AJ	Ok
14	Q1488-09	FF015639.D	10 Mar 2025 21:41	YP\AJ	Ok
15	Q1488-11	FF015640.D	10 Mar 2025 22:10	YP\AJ	Ok
16	Q1514-01	FF015641.D	10 Mar 2025 22:39	YP\AJ	Dilution
17	Q1514-03	FF015642.D	10 Mar 2025 23:08	YP\AJ	Ok
18	Q1514-05	FF015643.D	10 Mar 2025 23:38	YP\AJ	Ok
19	I.BLK	FF015644.D	11 Mar 2025 00:36	YP\AJ	Ok
20	20 PPM AROMATIC HC STD	FF015645.D	11 Mar 2025 01:05	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068250.D	10 Feb 2025 15:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068251.D	10 Feb 2025 15:48		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068252.D	10 Feb 2025 16:24		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068253.D	10 Feb 2025 17:01		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068254.D	10 Feb 2025 17:38		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068255.D	10 Feb 2025 18:14		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068256.D	10 Feb 2025 18:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068257.D	10 Feb 2025 19:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068258.D	10 Feb 2025 20:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068259.D	10 Feb 2025 21:16		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC030525AL

Review By	yogesh	Review On	3/5/2025 3:16:09 PM		
Supervise By	mohammad	Supervise On	3/8/2025 4:27:39 AM		
SubDirectory	FC030525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068366.D	05 Mar 2025 10:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068367.D	05 Mar 2025 13:31		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068368.D	05 Mar 2025 15:22		YP/AJ	Ok,M
4	PB166976BL	PB166976BL	FC068369.D	05 Mar 2025 15:58		YP/AJ	Ok
5	PB166976BS	PB166976BS	FC068370.D	05 Mar 2025 16:35		YP/AJ	Ok,M
6	PB166976BSD	PB166976BSD	FC068371.D	05 Mar 2025 17:12		YP/AJ	Ok,M
7	Q1480-33	TP-3-WATER-SAMPLE	FC068372.D	05 Mar 2025 17:50		YP/AJ	Ok
8	Q1488-13	ENV-102-GW01	FC068373.D	05 Mar 2025 18:27		YP/AJ	Ok
9	Q1488-14	ENV-104-GW01	FC068374.D	05 Mar 2025 19:04		YP/AJ	Ok
10	I.BLK	I.BLK	FC068375.D	05 Mar 2025 19:41		YP/AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068376.D	05 Mar 2025 20:18		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049070.D	10 Feb 2025 12:09		YP/AJ	Ok
2	I.BLK	I.BLK	FD049071.D	10 Feb 2025 12:45		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049072.D	10 Feb 2025 13:22		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049073.D	10 Feb 2025 13:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049074.D	10 Feb 2025 14:35		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049075.D	10 Feb 2025 15:12		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049076.D	10 Feb 2025 15:48		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049077.D	10 Feb 2025 16:24		YP/AJ	Ok,M
9	I.BLK	I.BLK	FD049078.D	10 Feb 2025 17:01		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049079.D	10 Feb 2025 17:38		YP/AJ	Ok,M

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD030525AR

Review By	yogesh	Review On	3/5/2025 3:17:07 PM		
Supervise By	mohammad	Supervise On	3/8/2025 4:35:54 AM		
SubDirectory	FD030525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049156.D	05 Mar 2025 10:12		YP/AJ	Ok
2	I.BLK	I.BLK	FD049157.D	05 Mar 2025 13:31		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049158.D	05 Mar 2025 15:22		YP/AJ	Ok
4	PB166976BL	PB166976BL	FD049159.D	05 Mar 2025 15:58		YP/AJ	Ok
5	PB166976BS	PB166976BS	FD049160.D	05 Mar 2025 16:35		YP/AJ	Ok
6	PB166976BSD	PB166976BSD	FD049161.D	05 Mar 2025 17:12		YP/AJ	Ok
7	Q1480-33	TP-3-WATER-SAMPLE	FD049162.D	05 Mar 2025 17:50		YP/AJ	Ok
8	Q1488-13	ENV-102-GW01	FD049163.D	05 Mar 2025 18:27		YP/AJ	Ok
9	Q1488-14	ENV-104-GW01	FD049164.D	05 Mar 2025 19:04		YP/AJ	Ok
10	I.BLK	I.BLK	FD049165.D	05 Mar 2025 19:41		YP/AJ	Ok
11	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049166.D	05 Mar 2025 20:18		YP/AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE030325AL

Review By	yogesh	Review On	3/3/2025 1:02:44 PM		
Supervise By	mohammad	Supervise On	3/7/2025 1:35:41 AM		
SubDirectory	FE030325AL	HP Acquire Method		HP Processing Method	FE030325AL

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	FE052572.D	03 Mar 2025 08:32		YP\AJ	Ok
2	I.BLK	I.BLK	FE052573.D	03 Mar 2025 09:02		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE052574.D	03 Mar 2025 11:03		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE052575.D	03 Mar 2025 11:34		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052576.D	03 Mar 2025 12:04		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE052577.D	03 Mar 2025 12:34		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE052578.D	03 Mar 2025 13:04		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052579.D	03 Mar 2025 13:35		YP\AJ	Ok
9	I.BLK	I.BLK	FE052580.D	03 Mar 2025 14:05		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052581.D	03 Mar 2025 14:35		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE031025AL

Review By	yogesh	Review On	3/10/2025 11:00:03 AM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:11 AM		
SubDirectory	FE031025AL	HP Acquire Method		HP Processing Method	FE030325AL

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	FE052690.D	10 Mar 2025 08:38		YP\AJ	Ok
2	I.BLK	I.BLK	FE052691.D	10 Mar 2025 09:09		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052692.D	10 Mar 2025 10:09		YP\AJ	Ok
4	Q1508-01DL	RBR251372DL	FE052693.D	10 Mar 2025 11:00		YP\AJ	Ok,M
5	Q1508-02DL	RBR251372-E2DL	FE052694.D	10 Mar 2025 11:30		YP\AJ	Ok,M
6	Q1518-01DL	OILY-DEBRIS-COMPD	FE052695.D	10 Mar 2025 12:00		YP\AJ	Ok
7	I.BLK	I.BLK	FE052696.D	10 Mar 2025 13:00		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052697.D	10 Mar 2025 13:31		YP\AJ	Ok
9	PB167046BL	PB167046BL	FE052698.D	10 Mar 2025 14:01		YP\AJ	Ok
10	PB167046BS	PB167046BS	FE052699.D	10 Mar 2025 14:31		YP\AJ	Ok
11	PB167046BSD	PB167046BSD	FE052700.D	10 Mar 2025 15:01		YP\AJ	Ok
12	Q1524-01	72-11930-343-COMP	FE052701.D	10 Mar 2025 15:32		YP\AJ	Ok
13	Q1524-01D	Q1524-01D	FE052702.D	10 Mar 2025 16:01		YP\AJ	Ok
14	Q1524-01MS	72-11930-343-COMPM	FE052703.D	10 Mar 2025 16:31	FE052701.D	YP\AJ	Ok
15	Q1524-01MSD	72-11930-343-COMPM	FE052704.D	10 Mar 2025 17:01	FE052701.D!FE052703.D	YP\AJ	Ok
16	Q1524-02	VNJ-241	FE052705.D	10 Mar 2025 17:31		YP\AJ	Ok
17	I.BLK	I.BLK	FE052706.D	10 Mar 2025 18:32		YP\AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052707.D	10 Mar 2025 19:02		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE031025AL

Review By	yogesh	Review On	3/10/2025 11:00:03 AM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:11 AM		
SubDirectory	FE031025AL	HP Acquire Method		HP Processing Method	FE030325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167058BL	PB167058BL	FE052708.D	10 Mar 2025 20:02		YP\AJ	Ok
20	PB167058BS	PB167058BS	FE052709.D	10 Mar 2025 20:32	naphthalene break down - 1.10, 2 methylnephthalene break down - 0.64	YP\AJ	Ok
21	PB167058BSD	PB167058BSD	FE052710.D	10 Mar 2025 21:02	naphthalene break down - 0.84, 2 methylnephthalene break down - 0.63	YP\AJ	Ok
22	Q1488-01	ENV-101-SB01	FE052711.D	10 Mar 2025 21:32		YP\AJ	Ok
23	Q1488-01D	Q1488-01D	FE052712.D	10 Mar 2025 22:02		YP\AJ	Ok
24	Q1488-01MS	ENV-101-SB01MS	FE052713.D	10 Mar 2025 22:32	FE052711.D	YP\AJ	Ok
25	Q1488-01MSD	ENV-101-SB01MSD	FE052714.D	10 Mar 2025 23:03	FE052711.D!FE052713.D	YP\AJ	Ok
26	Q1488-03	ENV-101-SB02	FE052715.D	10 Mar 2025 23:32		YP\AJ	Ok
27	Q1488-05	ENV-102-SB01	FE052716.D	11 Mar 2025 00:03		YP\AJ	Ok
28	Q1488-07	ENV-102-SB02	FE052717.D	11 Mar 2025 00:33		YP\AJ	Ok
29	Q1488-09	ENV-104-SB01	FE052718.D	11 Mar 2025 01:03		YP\AJ	Ok
30	Q1488-11	ENV-104-SB02	FE052719.D	11 Mar 2025 01:34		YP\AJ	Ok
31	Q1514-01	ENV-105-SB01	FE052720.D	11 Mar 2025 02:04	need 2x dilution	YP\AJ	Dilution
32	Q1514-03	ENV-105-SB02	FE052721.D	11 Mar 2025 02:34		YP\AJ	Ok
33	Q1514-05	ENV-103-SB01	FE052722.D	11 Mar 2025 03:04		YP\AJ	Ok
34	I.BLK	I.BLK	FE052723.D	11 Mar 2025 04:04		YP\AJ	Ok
35	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052724.D	11 Mar 2025 04:34		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF022625AR

Review By	yogesh	Review On	2/26/2025 1:35:57 PM		
Supervise By	Ankita	Supervise On	2/27/2025 8:55:13 AM		
SubDirectory	FF022625AR	HP Acquire Method		HP Processing Method	FF022625AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP24202,PP24203,PP24204,PP24205
CCC	PP24203
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24206
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015525.D	25 Feb 2025 06:50		YP\AJ	Ok
2	I.BLK	I.BLK	FF015526.D	25 Feb 2025 07:19		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF015527.D	25 Feb 2025 09:00		YP\AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF015528.D	25 Feb 2025 09:30		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015529.D	25 Feb 2025 09:59		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF015530.D	25 Feb 2025 10:28		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF015531.D	25 Feb 2025 10:58		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015532.D	25 Feb 2025 11:27		YP\AJ	Ok,M
9	I.BLK	I.BLK	FF015533.D	25 Feb 2025 11:56		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015534.D	25 Feb 2025 12:26		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF031025AR

Review By	yogesh	Review On	3/10/2025 1:31:15 PM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:39 AM		
SubDirectory	FF031025AR	HP Acquire Method		HP Processing Method	FF022625AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP24202,PP24203,PP24204,PP24205
CCC	PP24203
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24206
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015626.D	10 Mar 2025 08:35		YP\AJ	Ok
2	I.BLK	I.BLK	FF015627.D	10 Mar 2025 13:00		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015628.D	10 Mar 2025 13:29		YP\AJ	Ok
4	PB167058BL	PB167058BL	FF015629.D	10 Mar 2025 16:47		YP\AJ	Ok
5	PB167058BS	PB167058BS	FF015630.D	10 Mar 2025 17:17	naphthalene break down - 1.10, 2 methylnephthalene break down - 0.64	YP\AJ	Ok
6	PB167058BSD	PB167058BSD	FF015631.D	10 Mar 2025 17:46	naphthalene break down - 0.84, 2 methylnephthalene break down - 0.63	YP\AJ	Ok
7	Q1488-01	ENV-101-SB01	FF015632.D	10 Mar 2025 18:15		YP\AJ	Ok
8	Q1488-01D	Q1488-01D	FF015633.D	10 Mar 2025 18:45		YP\AJ	Ok
9	Q1488-01MS	ENV-101-SB01MS	FF015634.D	10 Mar 2025 19:14	FF015632.D	YP\AJ	Ok,M
10	Q1488-01MSD	ENV-101-SB01MSD	FF015635.D	10 Mar 2025 19:43	FF015632.D!FF015634.D	YP\AJ	Ok,M
11	Q1488-03	ENV-101-SB02	FF015636.D	10 Mar 2025 20:13		YP\AJ	Ok
12	Q1488-05	ENV-102-SB01	FF015637.D	10 Mar 2025 20:42		YP\AJ	Ok
13	Q1488-07	ENV-102-SB02	FF015638.D	10 Mar 2025 21:11		YP\AJ	Ok
14	Q1488-09	ENV-104-SB01	FF015639.D	10 Mar 2025 21:41		YP\AJ	Ok
15	Q1488-11	ENV-104-SB02	FF015640.D	10 Mar 2025 22:10		YP\AJ	Ok
16	Q1514-01	ENV-105-SB01	FF015641.D	10 Mar 2025 22:39	need 2x dilution	YP\AJ	Dilution

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF031025AR

Review By	yogesh	Review On	3/10/2025 1:31:15 PM		
Supervise By	Ankita	Supervise On	3/11/2025 9:25:39 AM		
SubDirectory	FF031025AR	HP Acquire Method		HP Processing Method	FF022625AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP24202,PP24203,PP24204,PP24205
CCC	PP24203
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24206
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1514-03	ENV-105-SB02	FF015642.D	10 Mar 2025 23:08		YP\AJ	Ok
18	Q1514-05	ENV-103-SB01	FF015643.D	10 Mar 2025 23:38		YP\AJ	Ok
19	I.BLK	I.BLK	FF015644.D	11 Mar 2025 00:36		YP\AJ	Ok
20	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015645.D	11 Mar 2025 01:05		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB166976

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/05/2025
Matrix :	Water			**Extraction Start Time :**	08:25
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	03/05/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24210
Fractionation Surrogate	1.0ML	100 PPM	PP24108
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext Lab)	Y.Peytin.
15:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166976

Analytical Method: MNJDEP-EPH-7

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166976BL	PB166976BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB166976BS	PB166976BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB166976BSD	PB166976BSD	EPH	1000	<2	RUPESH	ritesh	2			3
Q1480-33	TP-3-WATER-SAMPLE	EPH	990	<2	RUPESH	ritesh	2	T		4
Q1488-13	ENV-102-GW01	EPH	810	<2	RUPESH	ritesh	2	H		5
Q1488-14	ENV-104-GW01	EPH	970	<2	RUPESH	ritesh	2	H		6

3/5

* **Extracts relinquished on the same date as received.**

166976
8:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1480EPH **WorkList ID :** 188012 **Department :** Extraction **Date :** 03-05-2025 08:18:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1480-33	TP-3-WATER-SAMPLE	Water	EPH	1:1 HCl to pH < 2	PSEG03	I11	03/03/2025	NJEPH
Q1488-13	ENV-102-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	H31	03/04/2025	NJEPH
Q1488-14	ENV-104-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	H31	03/04/2025	NJEPH

Date/Time 3/5/25 8:20
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: CR SM

Date/Time 3/5/25
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RS (Ext Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167058

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/10/2025
Matrix :	Solid			**Extraction Start Time :**	09:20
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	03/10/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24210
Fractionation Surrogate	1.0ML	100 PPM	PP24216
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	EP2593
Sand	N/A	E2865
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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
3/10/25	RS (Ext-Lab)	Y-P-Pest1PCB
16:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167058

Analytical Method: MNJDEP-EPH-7

Concentration Date: 03/10/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167058BL	PB167058BL	EPH	30.01	N/A	ritesh	Evelyn	2			U6-1
PB167058BS	PB167058BS	EPH	30.02	N/A	ritesh	Evelyn	2			2
PB167058BSD	PB167058BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1488-01	ENV-101-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q1488-01DUP	ENV-101-SB01DUP	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1488-01MS	ENV-101-SB01MS	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
Q1488-01MSD	ENV-101-SB01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		U2-1
Q1488-03	ENV-101-SB02	EPH	30.08	N/A	ritesh	Evelyn	2	E		2
Q1488-05	ENV-102-SB01	EPH	30.02	N/A	ritesh	Evelyn	2	E		3
Q1488-07	ENV-102-SB02	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1488-09	ENV-104-SB01	EPH	30.04	N/A	ritesh	Evelyn	2	E		5
Q1488-11	ENV-104-SB02	EPH	30.06	N/A	ritesh	Evelyn	2	E		6
Q1514-01	ENV-105-SB01	EPH	30.03	N/A	ritesh	Evelyn	2	E		U3-1
Q1514-03	ENV-105-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
Q1514-05	ENV-103-SB01	EPH	30.04	N/A	ritesh	Evelyn	2	E		3

3/10

* **Extracts relinquished on the same date as received.**

167058
9:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1488EPH **WorkList ID :** 188160 **Department :** Extraction **Date :** 03-10-2025 08:28:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-01	ENV-101-SB01	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1488-03	ENV-101-SB02	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1488-05	ENV-102-SB01	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1488-07	ENV-102-SB02	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1488-09	ENV-104-SB01	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1488-11	ENV-104-SB02	Solid	EPH	Cool 4 deg C	PORT06	H31	03/04/2025	NJEPH
Q1514-01	ENV-105-SB01	Solid	EPH	Cool 4 deg C	PORT06	I31	03/05/2025	NJEPH
Q1514-03	ENV-105-SB02	Solid	EPH	Cool 4 deg C	PORT06	I31	03/05/2025	NJEPH
Q1514-05	ENV-103-SB01	Solid	EPH	Cool 4 deg C	PORT06	I31	03/05/2025	NJEPH

Date/Time 3/10/25 9:15
Raw Sample Received by: RJ (EXA-lab)
Raw Sample Relinquished by: JD (SM)

Date/Time 3/10/25 9:50
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (EXA-lab)

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			EPH	NJEPH		03/10/25	03/10/25	
			EPH	NJEPH		03/10/25	03/11/25	
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**			**03/04/25**
			EPH	NJEPH		03/05/25	03/05/25	
			PCB	8082A		03/06/25	03/06/25	

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LAB CHRONICLE

Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**		**03/04/25**
			EPH	NJEPH	03/05/25	03/05/25	
			PCB	8082A	03/06/25	03/06/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ENV-101-SB01								
Q1488-01	ENV-101-SB01	SOIL	Aluminum	7300		2.44	5.07	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Arsenic	1.69		0.29	1.01	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Barium	34.6		0.65	5.07	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Beryllium	0.44		0.012	0.30	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Calcium	1010		2.84	101	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Chromium	10.7		0.055	0.51	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Cobalt	5.64		0.059	1.52	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Copper	11.3		0.48	1.01	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Iron	12700		2.73	5.07	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Lead	11.1		0.15	0.61	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Magnesium	1820		3.48	101	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Manganese	184		0.072	1.01	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Nickel	10.3		0.091	2.03	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Potassium	472		29.1	101	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Sodium	392		36.6	101	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Vanadium	19.6		0.27	2.03	mg/Kg
Q1488-01	ENV-101-SB01	SOIL	Zinc	22.2		0.11	2.03	mg/Kg
Client ID : ENV-101-SB02								
Q1488-03	ENV-101-SB02	SOIL	Aluminum	3670		2.47	5.13	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Arsenic	1.35		0.30	1.03	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Barium	29.0		0.66	5.13	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Beryllium	0.31		0.012	0.31	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Calcium	800		2.87	103	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Chromium	8.63		0.055	0.51	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Cobalt	3.73		0.060	1.54	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Copper	12.8		0.48	1.03	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Iron	7970		2.76	5.13	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Lead	5.33		0.15	0.62	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Magnesium	827		3.52	103	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Manganese	60.0		0.073	1.03	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Nickel	5.94		0.092	2.05	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Potassium	331		29.5	103	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Sodium	49.7	J	37.1	103	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Vanadium	9.71		0.28	2.05	mg/Kg
Q1488-03	ENV-101-SB02	SOIL	Zinc	13.0		0.11	2.05	mg/Kg
Client ID : ENV-102-SB01								

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1488-05	ENV-102-SB01	SOIL	Aluminum	8700		2.59	5.38	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Arsenic	3.94		0.31	1.08	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Barium	77.8		0.69	5.38	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Beryllium	0.82		0.013	0.32	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Cadmium	0.12	J	0.017	0.32	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Calcium	1410		3.01	108	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Chromium	15.2		0.058	0.54	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Cobalt	9.55		0.062	1.61	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Copper	207		0.51	1.08	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Iron	16000		2.89	5.38	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Lead	127		0.16	0.65	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Magnesium	3150		3.69	108	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Manganese	417		0.076	1.08	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Mercury	0.22		0.0060	0.014	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Nickel	18.6		0.097	2.15	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Potassium	1160		30.9	108	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Silver	0.13	J	0.056	0.54	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Sodium	66.1	J	38.8	108	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Thallium	0.51	J	0.47	2.15	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Vanadium	18.8		0.29	2.15	mg/Kg
Q1488-05	ENV-102-SB01	SOIL	Zinc	98.2		0.12	2.15	mg/Kg
Client ID :	**ENV-102-SB02**							
Q1488-07	ENV-102-SB02	SOIL	Aluminum	5750		2.74	5.67	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Arsenic	2.40		0.33	1.13	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Barium	9.30		0.73	5.67	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Beryllium	0.36		0.014	0.34	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Calcium	494		3.18	113	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Chromium	9.06		0.061	0.57	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Cobalt	6.08		0.066	1.70	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Copper	10.8		0.53	1.13	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Iron	10600		3.05	5.67	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Lead	7.02		0.17	0.68	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Magnesium	1190		3.89	113	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Manganese	72.0		0.081	1.13	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Mercury	0.046		0.0070	0.016	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Nickel	7.79		0.10	2.27	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Potassium	390		32.6	113	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Sodium	163		41.0	113	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Vanadium	16.6		0.31	2.27	mg/Kg
Q1488-07	ENV-102-SB02	SOIL	Zinc	28.3		0.13	2.27	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ENV-104-SB01								
Q1488-09	ENV-104-SB01	SOIL	Aluminum	5720		2.36	4.90	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Antimony	0.36	J	0.15	2.45	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Arsenic	9.73		0.28	0.98	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Barium	46.1		0.63	4.90	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Beryllium	0.60		0.012	0.29	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Cadmium	0.26	J	0.016	0.29	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Calcium	6270		2.74	98.0	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Chromium	16.4		0.053	0.49	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Cobalt	6.77		0.057	1.47	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Copper	951		0.46	0.98	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Iron	19200		2.64	4.90	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Lead	207		0.15	0.59	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Magnesium	1210		3.36	98.0	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Manganese	613		0.070	0.98	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Mercury	0.10		0.0070	0.016	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Nickel	16.9		0.088	1.96	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Potassium	571		28.1	98.0	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Sodium	183		35.4	98.0	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Thallium	0.80	J	0.43	1.96	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Vanadium	21.3		0.27	1.96	mg/Kg
Q1488-09	ENV-104-SB01	SOIL	Zinc	192		0.11	1.96	mg/Kg
Client ID : ENV-104-SB02								
Q1488-11	ENV-104-SB02	SOIL	Aluminum	4180		2.62	5.43	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Arsenic	1.95		0.32	1.09	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Barium	8.27		0.70	5.43	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Beryllium	0.29	J	0.013	0.33	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Calcium	700		3.04	109	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Chromium	6.25		0.059	0.54	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Cobalt	2.36		0.063	1.63	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Copper	64.6		0.51	1.09	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Iron	11000		2.92	5.43	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Lead	11.7		0.16	0.65	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Magnesium	1240		3.73	109	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Manganese	60.4		0.077	1.09	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Mercury	0.0080	J	0.0070	0.016	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Nickel	5.80		0.098	2.17	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Potassium	328		31.2	109	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Sodium	364		39.2	109	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1488-11	ENV-104-SB02	SOIL	Thallium	0.71	J	0.48	2.17	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Vanadium	7.54		0.29	2.17	mg/Kg
Q1488-11	ENV-104-SB02	SOIL	Zinc	35.5		0.12	2.17	mg/Kg
Client ID :	**ENV-102-GW01**							
Q1488-13	ENV-102-GW01	Water	Aluminum	391000		28.3	50.0	ug/L
Q1488-13	ENV-102-GW01	Water	Arsenic	164		3.48	10.0	ug/L
Q1488-13	ENV-102-GW01	Water	Barium	1720		6.28	50.0	ug/L
Q1488-13	ENV-102-GW01	Water	Beryllium	29.7		0.13	3.00	ug/L
Q1488-13	ENV-102-GW01	Water	Cadmium	538		0.094	3.00	ug/L
Q1488-13	ENV-102-GW01	Water	Calcium	73000		33.0	1000	ug/L
Q1488-13	ENV-102-GW01	Water	Chromium	714		0.66	5.00	ug/L
Q1488-13	ENV-102-GW01	Water	Cobalt	1460		0.50	15.0	ug/L
Q1488-13	ENV-102-GW01	Water	Copper	5940		7.07	10.0	ug/L
Q1488-13	ENV-102-GW01	Water	Iron	381000		18.5	50.0	ug/L
Q1488-13	ENV-102-GW01	Water	Lead	10700		3.51	6.00	ug/L
Q1488-13	ENV-102-GW01	Water	Magnesium	110000		39.4	1000	ug/L
Q1488-13	ENV-102-GW01	Water	Manganese	14800		1.46	10.0	ug/L
Q1488-13	ENV-102-GW01	Water	Mercury	22.1	D	0.41	1.00	ug/L
Q1488-13	ENV-102-GW01	Water	Nickel	2940		0.85	20.0	ug/L
Q1488-13	ENV-102-GW01	Water	Potassium	53000		685	1000	ug/L
Q1488-13	ENV-102-GW01	Water	Sodium	40500		237	1000	ug/L
Q1488-13	ENV-102-GW01	Water	Vanadium	571		3.06	20.0	ug/L
Q1488-13	ENV-102-GW01	Water	Zinc	4470		1.75	20.0	ug/L
Client ID :	**ENV-104-GW01**							
Q1488-14	ENV-104-GW01	Water	Aluminum	31000		28.3	50.0	ug/L
Q1488-14	ENV-104-GW01	Water	Antimony	4.27	J	2.06	25.0	ug/L
Q1488-14	ENV-104-GW01	Water	Arsenic	57.5		3.48	10.0	ug/L
Q1488-14	ENV-104-GW01	Water	Barium	221		6.28	50.0	ug/L
Q1488-14	ENV-104-GW01	Water	Beryllium	2.09	J	0.13	3.00	ug/L
Q1488-14	ENV-104-GW01	Water	Cadmium	1.29	J	0.094	3.00	ug/L
Q1488-14	ENV-104-GW01	Water	Calcium	36000		33.0	1000	ug/L
Q1488-14	ENV-104-GW01	Water	Chromium	69.1		0.66	5.00	ug/L
Q1488-14	ENV-104-GW01	Water	Cobalt	28.0		0.50	15.0	ug/L
Q1488-14	ENV-104-GW01	Water	Copper	12100		7.07	10.0	ug/L
Q1488-14	ENV-104-GW01	Water	Iron	75000		18.5	50.0	ug/L
Q1488-14	ENV-104-GW01	Water	Lead	954		3.51	6.00	ug/L
Q1488-14	ENV-104-GW01	Water	Magnesium	9520		39.4	1000	ug/L
Q1488-14	ENV-104-GW01	Water	Manganese	3820		1.46	10.0	ug/L
Q1488-14	ENV-104-GW01	Water	Mercury	0.49		0.081	0.20	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1488-14	ENV-104-GW01	Water	Nickel	97.2		0.85	20.0	ug/L
Q1488-14	ENV-104-GW01	Water	Potassium	8280		685	1000	ug/L
Q1488-14	ENV-104-GW01	Water	Silver	3.81	J	0.58	5.00	ug/L
Q1488-14	ENV-104-GW01	Water	Sodium	14000		237	1000	ug/L
Q1488-14	ENV-104-GW01	Water	Thallium	3.69	J	2.32	20.0	ug/L
Q1488-14	ENV-104-GW01	Water	Vanadium	67.5		3.06	20.0	ug/L
Q1488-14	ENV-104-GW01	Water	Zinc	1760		1.75	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7300		1	2.44	5.07	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.53	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-38-2	Arsenic	1.69		1	0.29	1.01	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-39-3	Barium	34.6		1	0.65	5.07	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-41-7	Beryllium	0.44		1	0.012	0.30	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-70-2	Calcium	1010		1	2.84	101	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-47-3	Chromium	10.7		1	0.055	0.51	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-48-4	Cobalt	5.64		1	0.059	1.52	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-50-8	Copper	11.3		1	0.48	1.01	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7439-89-6	Iron	12700		1	2.73	5.07	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7439-92-1	Lead	11.1		1	0.15	0.61	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7439-95-4	Magnesium	1820		1	3.48	101	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7439-96-5	Manganese	184		1	0.072	1.01	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.015	mg/Kg	03/05/25 16:00	03/06/25 11:56	SW7471B	
7440-02-0	Nickel	10.3		1	0.091	2.03	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-09-7	Potassium	472		1	29.1	101	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7782-49-2	Selenium	0.33	U	1	0.33	1.01	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-22-4	Silver	0.053	U	1	0.053	0.51	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-23-5	Sodium	392	N	1	36.6	101	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-28-0	Thallium	0.45	U	1	0.45	2.03	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-62-2	Vanadium	19.6		1	0.27	2.03	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050
7440-66-6	Zinc	22.2		1	0.11	2.03	mg/Kg	03/05/25 10:05	03/13/25 14:11	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3670		1	2.47	5.13	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.57	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-38-2	Arsenic	1.35		1	0.30	1.03	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-39-3	Barium	29.0		1	0.66	5.13	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-41-7	Beryllium	0.31		1	0.012	0.31	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.31	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-70-2	Calcium	800		1	2.87	103	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-47-3	Chromium	8.63		1	0.055	0.51	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-48-4	Cobalt	3.73		1	0.060	1.54	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-50-8	Copper	12.8		1	0.48	1.03	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7439-89-6	Iron	7970		1	2.76	5.13	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7439-92-1	Lead	5.33		1	0.15	0.62	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7439-95-4	Magnesium	827		1	3.52	103	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7439-96-5	Manganese	60.0		1	0.073	1.03	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7439-97-6	Mercury	0.0060	U	1	0.0060	0.014	mg/Kg	03/05/25 16:00	03/06/25 11:58	SW7471B	
7440-02-0	Nickel	5.94		1	0.092	2.05	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-09-7	Potassium	331		1	29.5	103	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7782-49-2	Selenium	0.34	U	1	0.34	1.03	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-22-4	Silver	0.053	U	1	0.053	0.51	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-23-5	Sodium	49.7	JN	1	37.1	103	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-28-0	Thallium	0.45	U	1	0.45	2.05	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-62-2	Vanadium	9.71		1	0.28	2.05	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050
7440-66-6	Zinc	13.0		1	0.11	2.05	mg/Kg	03/05/25 10:05	03/13/25 14:15	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8700		1	2.59	5.38	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-36-0	Antimony	0.16	UN	1	0.16	2.69	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-38-2	Arsenic	3.94		1	0.31	1.08	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-39-3	Barium	77.8		1	0.69	5.38	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-41-7	Beryllium	0.82		1	0.013	0.32	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-43-9	Cadmium	0.12	J	1	0.017	0.32	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-70-2	Calcium	1410		1	3.01	108	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-47-3	Chromium	15.2		1	0.058	0.54	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-48-4	Cobalt	9.55		1	0.062	1.61	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-50-8	Copper	207		1	0.51	1.08	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7439-89-6	Iron	16000		1	2.89	5.38	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7439-92-1	Lead	127		1	0.16	0.65	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7439-95-4	Magnesium	3150		1	3.69	108	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7439-96-5	Manganese	417		1	0.076	1.08	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7439-97-6	Mercury	0.22		1	0.0060	0.014	mg/Kg	03/05/25 16:00	03/06/25 12:01	SW7471B	
7440-02-0	Nickel	18.6		1	0.097	2.15	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-09-7	Potassium	1160		1	30.9	108	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7782-49-2	Selenium	0.36	U	1	0.36	1.08	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-22-4	Silver	0.13	J	1	0.056	0.54	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-23-5	Sodium	66.1	JN	1	38.8	108	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-28-0	Thallium	0.51	J	1	0.47	2.15	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-62-2	Vanadium	18.8		1	0.29	2.15	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050
7440-66-6	Zinc	98.2		1	0.12	2.15	mg/Kg	03/05/25 10:05	03/13/25 14:19	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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OR = Over Range
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5750		1	2.74	5.67	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-36-0	Antimony	0.17	UN	1	0.17	2.84	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-38-2	Arsenic	2.40		1	0.33	1.13	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-39-3	Barium	9.30		1	0.73	5.67	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-41-7	Beryllium	0.36		1	0.014	0.34	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-43-9	Cadmium	0.018	U	1	0.018	0.34	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-70-2	Calcium	494		1	3.18	113	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-47-3	Chromium	9.06		1	0.061	0.57	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-48-4	Cobalt	6.08		1	0.066	1.70	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-50-8	Copper	10.8		1	0.53	1.13	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7439-89-6	Iron	10600		1	3.05	5.67	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7439-92-1	Lead	7.02		1	0.17	0.68	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7439-95-4	Magnesium	1190		1	3.89	113	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7439-96-5	Manganese	72.0		1	0.081	1.13	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7439-97-6	Mercury	0.046		1	0.0070	0.016	mg/Kg	03/05/25 16:00	03/06/25 12:03	SW7471B	
7440-02-0	Nickel	7.79		1	0.10	2.27	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-09-7	Potassium	390		1	32.6	113	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7782-49-2	Selenium	0.38	U	1	0.38	1.13	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-22-4	Silver	0.059	U	1	0.059	0.57	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-23-5	Sodium	163	N	1	41.0	113	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-28-0	Thallium	0.50	U	1	0.50	2.27	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-62-2	Vanadium	16.6		1	0.31	2.27	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050
7440-66-6	Zinc	28.3		1	0.13	2.27	mg/Kg	03/05/25 10:05	03/13/25 14:23	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5720		1	2.36	4.90	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-36-0	Antimony	0.36	JN	1	0.15	2.45	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-38-2	Arsenic	9.73		1	0.28	0.98	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-39-3	Barium	46.1		1	0.63	4.90	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-41-7	Beryllium	0.60		1	0.012	0.29	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-43-9	Cadmium	0.26	J	1	0.016	0.29	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-70-2	Calcium	6270		1	2.74	98.0	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-47-3	Chromium	16.4		1	0.053	0.49	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-48-4	Cobalt	6.77		1	0.057	1.47	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-50-8	Copper	951		1	0.46	0.98	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7439-89-6	Iron	19200		1	2.64	4.90	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7439-92-1	Lead	207		1	0.15	0.59	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7439-95-4	Magnesium	1210		1	3.36	98.0	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7439-96-5	Manganese	613		1	0.070	0.98	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7439-97-6	Mercury	0.10		1	0.0070	0.016	mg/Kg	03/05/25 16:00	03/06/25 12:05	SW7471B	
7440-02-0	Nickel	16.9		1	0.088	1.96	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-09-7	Potassium	571		1	28.1	98.0	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7782-49-2	Selenium	0.32	U	1	0.32	0.98	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-22-4	Silver	0.051	U	1	0.051	0.49	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-23-5	Sodium	183	N	1	35.4	98.0	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-28-0	Thallium	0.80	J	1	0.43	1.96	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-62-2	Vanadium	21.3		1	0.27	1.96	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050
7440-66-6	Zinc	192		1	0.11	1.96	mg/Kg	03/05/25 10:05	03/13/25 14:27	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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OR = Over Range
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Level (low/med):	low	% Solid:	81.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4180		1	2.62	5.43	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-36-0	Antimony	0.16	UN	1	0.16	2.72	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-38-2	Arsenic	1.95		1	0.32	1.09	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-39-3	Barium	8.27		1	0.70	5.43	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-41-7	Beryllium	0.29	J	1	0.013	0.33	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-43-9	Cadmium	0.017	U	1	0.017	0.33	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-70-2	Calcium	700		1	3.04	109	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-47-3	Chromium	6.25		1	0.059	0.54	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-48-4	Cobalt	2.36		1	0.063	1.63	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-50-8	Copper	64.6		1	0.51	1.09	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7439-89-6	Iron	11000		1	2.92	5.43	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7439-92-1	Lead	11.7		1	0.16	0.65	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7439-95-4	Magnesium	1240		1	3.73	109	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7439-96-5	Manganese	60.4		1	0.077	1.09	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7439-97-6	Mercury	0.0080	J	1	0.0070	0.016	mg/Kg	03/05/25 16:00	03/06/25 12:12	SW7471B	
7440-02-0	Nickel	5.80		1	0.098	2.17	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-09-7	Potassium	328		1	31.2	109	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7782-49-2	Selenium	0.36	U	1	0.36	1.09	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-22-4	Silver	0.056	U	1	0.056	0.54	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-23-5	Sodium	364	N	1	39.2	109	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-28-0	Thallium	0.71	J	1	0.48	2.17	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-62-2	Vanadium	7.54		1	0.29	2.17	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050
7440-66-6	Zinc	35.5		1	0.12	2.17	mg/Kg	03/05/25 10:05	03/13/25 14:31	SW6010	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	391000		1	28.3	50.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-38-2	Arsenic	164		1	3.48	10.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-39-3	Barium	1720		1	6.28	50.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-41-7	Beryllium	29.7		1	0.13	3.00	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-43-9	Cadmium	538		1	0.094	3.00	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-70-2	Calcium	73000		1	33.0	1000	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-47-3	Chromium	714		1	0.66	5.00	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-48-4	Cobalt	1460		1	0.50	15.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-50-8	Copper	5940		1	7.07	10.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7439-89-6	Iron	381000		1	18.5	50.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7439-92-1	Lead	10700		1	3.51	6.00	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7439-95-4	Magnesium	110000		1	39.4	1000	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7439-96-5	Manganese	14800		1	1.46	10.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7439-97-6	Mercury	22.1	D	5	0.41	1.00	ug/L	03/05/25 09:50	03/05/25 12:46	SW7470A	
7440-02-0	Nickel	2940		1	0.85	20.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-09-7	Potassium	53000		1	685	1000	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-22-4	Silver	5.80	UDN	10	5.80	50.0	ug/L	03/06/25 08:50	03/13/25 18:04	SW6010	SW3010
7440-23-5	Sodium	40500		1	237	1000	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-62-2	Vanadium	571		1	3.06	20.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010
7440-66-6	Zinc	4470		1	1.75	20.0	ug/L	03/06/25 08:50	03/13/25 18:39	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	31000		1	28.3	50.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-36-0	Antimony	4.27	J	1	2.06	25.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-38-2	Arsenic	57.5		1	3.48	10.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-39-3	Barium	221		1	6.28	50.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-41-7	Beryllium	2.09	J	1	0.13	3.00	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-43-9	Cadmium	1.29	J	1	0.094	3.00	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-70-2	Calcium	36000		1	33.0	1000	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-47-3	Chromium	69.1		1	0.66	5.00	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-48-4	Cobalt	28.0		1	0.50	15.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-50-8	Copper	12100		1	7.07	10.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7439-89-6	Iron	75000		1	18.5	50.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7439-92-1	Lead	954		1	3.51	6.00	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7439-95-4	Magnesium	9520		1	39.4	1000	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7439-96-5	Manganese	3820		1	1.46	10.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7439-97-6	Mercury	0.49		1	0.081	0.20	ug/L	03/05/25 09:50	03/05/25 12:28	SW7470A	
7440-02-0	Nickel	97.2		1	0.85	20.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-09-7	Potassium	8280		1	685	1000	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-22-4	Silver	3.81	JN	1	0.58	5.00	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-23-5	Sodium	14000		1	237	1000	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-28-0	Thallium	3.69	J	1	2.32	20.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-62-2	Vanadium	67.5		1	3.06	20.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010
7440-66-6	Zinc	1760		1	1.75	20.0	ug/L	03/06/25 08:50	03/13/25 14:07	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB31	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	11:57	LB134901

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Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	12:02	LB134901
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	12:35	LB134901
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	12:51	LB134901

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Metals

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Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB33	Mercury	0.20	+/-0.20	U	0.20	CV	03/06/2025	11:33	LB134917

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Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB69	Mercury	0.20	+/-0.20	U	0.20	CV	03/06/2025	11:40	LB134917
CCB70	Mercury	0.20	+/-0.20	U	0.20	CV	03/06/2025	12:10	LB134917
CCB71	Mercury	0.20	+/-0.20	U	0.20	CV	03/06/2025	12:40	LB134917

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Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/06/2025	11:43	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	11:43	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	11:43	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	11:43	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	11:43	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	11:43	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	11:43	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	11:43	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	11:43	LB134928
	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	11:43	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	11:43	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	11:43	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	11:43	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	11:43	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	11:43	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	11:43	LB134928

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/06/2025	12:23	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	12:23	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	12:23	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	12:23	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	12:23	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	12:23	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	12:23	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	12:23	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	12:23	LB134928
	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	12:23	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	12:23	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	12:23	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	12:23	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	12:23	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	12:23	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	12:23	LB134928
CCB02	Aluminum	100	+/-100	U	100	P	03/06/2025	13:14	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	13:14	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	13:14	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	13:14	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	13:14	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	13:14	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	13:14	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	13:14	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	13:14	LB134928
	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	13:14	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	13:14	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	13:14	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	13:14	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	13:14	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	13:14	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	13:14	LB134928
CCB03	Aluminum	100	+/-100	U	100	P	03/06/2025	14:05	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	14:05	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:05	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:05	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:05	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	14:05	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	14:05	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	14:05	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:05	LB134928
	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	14:05	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	14:05	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	14:05	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	14:05	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	14:05	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	14:05	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	14:05	LB134928
CCB04	Aluminum	100	+/-100	U	100	P	03/06/2025	14:54	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	14:54	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:54	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:54	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:54	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	14:54	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	14:54	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	14:54	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:54	LB134928

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	14:54	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	14:54	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	14:54	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	14:54	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	14:54	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	14:54	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	14:54	LB134928
CCB05	Aluminum	100	+/-100	U	100	P	03/06/2025	15:57	LB134928
	Antimony	50.0	+/-50.0	U	50.0	P	03/06/2025	15:57	LB134928
	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	15:57	LB134928
	Beryllium	6.00	+/-6.00	U	6.00	P	03/06/2025	15:57	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	15:57	LB134928
	Calcium	2000	+/-2000	U	2000	P	03/06/2025	15:57	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928
	Cobalt	30.0	+/-30.0	U	30.0	P	03/06/2025	15:57	LB134928
	Copper	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Iron	100	+/-100	U	100	P	03/06/2025	15:57	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	15:57	LB134928
	Magnesium	2000	+/-2000	U	2000	P	03/06/2025	15:57	LB134928
	Manganese	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Nickel	40.0	+/-40.0	U	40.0	P	03/06/2025	15:57	LB134928
	Potassium	2000	+/-2000	U	2000	P	03/06/2025	15:57	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928
	Sodium	2000	+/-2000	U	2000	P	03/06/2025	15:57	LB134928
	Thallium	40.0	+/-40.0	U	40.0	P	03/06/2025	15:57	LB134928
	Vanadium	40.0	+/-40.0	U	40.0	P	03/06/2025	15:57	LB134928
	Zinc	40.0	+/-40.0	U	40.0	P	03/06/2025	15:57	LB134928

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	10:58	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	10:58	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	10:58	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	11:34	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	11:34	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	11:34	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
CCB02	Aluminum	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	12:23	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	12:23	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	12:23	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
CCB03	Aluminum	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	13:14	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	13:14	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	13:14	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
CCB04	Aluminum	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	14:13	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	14:13	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	14:13	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
CCB05	Aluminum	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	15:04	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	15:04	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:04	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
CCB06	Aluminum	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	15:54	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	15:54	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:54	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
CCB07	Aluminum	100	+/-100	U	100	P	03/11/2025	16:46	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	16:46	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	16:46	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	16:46	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	16:46	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	16:46	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	16:46	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	16:46	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	16:46	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	16:46	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	16:46	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	16:46	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	16:46	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	16:46	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	16:46	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	16:46	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	16:46	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	16:46	LB134987
CCB08	Aluminum	100	+/-100	U	100	P	03/11/2025	17:38	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	17:38	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	17:38	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	17:38	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	17:38	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	17:38	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	17:38	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	17:38	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	17:38	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	17:38	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	17:38	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	17:38	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	17:38	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	17:38	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	17:38	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	17:38	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	17:38	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	17:38	LB134987
CCB09	Aluminum	100	+/-100	U	100	P	03/11/2025	18:30	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	18:30	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	18:30	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	18:30	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	18:30	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	18:30	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	18:30	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	18:30	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	18:30	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	18:30	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	18:30	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	18:30	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	18:30	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	18:30	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	18:30	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	18:30	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	18:30	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	18:30	LB134987
CCB10	Aluminum	100	+/-100	U	100	P	03/11/2025	19:18	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	19:18	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	19:18	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:18	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:18	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	19:18	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:18	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	19:18	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:18	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:18	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	19:18	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	19:18	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	19:18	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:18	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	19:18	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:18	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:18	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	19:18	LB134987
CCB11	Aluminum	100	+/-100	U	100	P	03/11/2025	19:31	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	19:31	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	19:31	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:31	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:31	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	19:31	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:31	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	19:31	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:31	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:31	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	19:31	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	19:31	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	19:31	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:31	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	19:31	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:31	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:31	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	19:31	LB134987
CCB12	Aluminum	100	+/-100	U	100	P	03/11/2025	19:49	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	19:49	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	19:49	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:49	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:49	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	19:49	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:49	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	19:49	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:49	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:49	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	19:49	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	19:49	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	19:49	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:49	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	19:49	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:49	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	19:49	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	19:49	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	11:01	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:01	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:01	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	11:01	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	11:01	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:01	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	11:01	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	11:01	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	11:01	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	11:01	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	11:01	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	11:01	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	11:01	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	11:34	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:34	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:34	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	11:34	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	11:34	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:34	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	11:34	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	11:34	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	11:34	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	11:34	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	11:34	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	11:34	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	11:34	LB135011
CCB02	Aluminum	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	12:24	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	12:24	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	12:24	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	12:24	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	12:24	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	12:24	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	12:24	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	12:24	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	12:24	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	12:24	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	12:24	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	12:24	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	12:24	LB135011
CCB03	Aluminum	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	13:14	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	13:14	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	13:14	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	13:14	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	13:14	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	13:14	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	13:14	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	13:14	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	13:14	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	13:14	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	13:14	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	13:14	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	13:14	LB135011
CCB04	Aluminum	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	14:28	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	14:28	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	14:28	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	14:28	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	14:28	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	14:28	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	14:28	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	14:28	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	14:28	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	14:28	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	14:28	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	14:28	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	14:28	LB135011
CCB05	Aluminum	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	15:29	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	15:29	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	15:29	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	15:29	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	15:29	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	15:29	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	15:29	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	15:29	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	15:29	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	15:29	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	15:29	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	15:29	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	15:29	LB135011
CCB06	Aluminum	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	16:30	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	16:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	16:30	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	16:30	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	16:30	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	16:30	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	16:30	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	16:30	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	16:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	16:30	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	16:30	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	16:30	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	16:30	LB135011
CCB07	Aluminum	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	17:30	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	17:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	17:30	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	17:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	17:30	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	17:30	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	17:30	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	17:30	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	17:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	17:30	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	17:30	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	17:30	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	17:30	LB135011
CCB08	Aluminum	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	18:27	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:27	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:27	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	18:27	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	18:27	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:27	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	18:27	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	18:27	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	18:27	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	18:27	LB135011
	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	18:27	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	18:27	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	18:27	LB135011
CCB09	Aluminum	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Antimony	50.0	+/-50.0	U	50.0	P	03/12/2025	18:53	LB135011
	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Beryllium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:53	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:53	LB135011
	Calcium	2000	+/-2000	U	2000	P	03/12/2025	18:53	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011
	Cobalt	30.0	+/-30.0	U	30.0	P	03/12/2025	18:53	LB135011
	Copper	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Iron	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:53	LB135011
	Magnesium	2000	+/-2000	U	2000	P	03/12/2025	18:53	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Nickel	40.0	+/-40.0	U	40.0	P	03/12/2025	18:53	LB135011
	Potassium	2000	+/-2000	U	2000	P	03/12/2025	18:53	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	18:53	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	03/12/2025	18:53	LB135011
	Vanadium	40.0	+/-40.0	U	40.0	P	03/12/2025	18:53	LB135011
	Zinc	40.0	+/-40.0	U	40.0	P	03/12/2025	18:53	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	12:17	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	12:17	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	12:17	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:17	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	12:17	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	12:17	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	12:17	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	12:17	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	12:17	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	12:17	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	12:17	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	12:58	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	12:58	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	12:58	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:58	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	12:58	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	12:58	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	12:58	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	12:58	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	12:58	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	12:58	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	12:58	LB135035
CCB02	Aluminum	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	13:54	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	13:54	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	13:54	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	13:54	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	13:54	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	13:54	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	13:54	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	13:54	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	13:54	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	13:54	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	13:54	LB135035
CCB03	Aluminum	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	14:48	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	14:48	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	14:48	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	14:48	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	14:48	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	14:48	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	14:48	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	14:48	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	14:48	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	14:48	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	14:48	LB135035
CCB04	Aluminum	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	15:42	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	15:42	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	15:42	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	15:42	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	15:42	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	15:42	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	15:42	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	15:42	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	15:42	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	15:42	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	15:42	LB135035
CCB05	Aluminum	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	16:32	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	16:32	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	16:32	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	16:32	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	16:32	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	16:32	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	16:32	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	16:32	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	16:32	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	16:32	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	16:32	LB135035
CCB06	Aluminum	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	17:25	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	17:25	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	17:25	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	17:25	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	17:25	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	17:25	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	17:25	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	17:25	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	17:25	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	17:25	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	17:25	LB135035
CCB07	Aluminum	100	+/-100	U	100	P	03/13/2025	18:35	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	18:35	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	18:35	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	18:35	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	18:35	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Iron	45.6	+/-100	J	100	P	03/13/2025	18:35	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	18:35	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	18:35	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	18:35	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	18:35	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	18:35	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	18:35	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	18:35	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	18:35	LB135035
CCB08	Aluminum	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	19:03	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	19:03	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	19:03	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:03	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	19:03	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	19:03	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	19:03	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	19:03	LB135035
	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	19:03	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	19:03	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	19:03	LB135035
CCB09	Aluminum	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Antimony	50.0	+/-50.0	U	50.0	P	03/13/2025	19:21	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Beryllium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Calcium	2000	+/-2000	U	2000	P	03/13/2025	19:21	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
	Cobalt	30.0	+/-30.0	U	30.0	P	03/13/2025	19:21	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:21	LB135035
	Magnesium	2000	+/-2000	U	2000	P	03/13/2025	19:21	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Nickel	40.0	+/-40.0	U	40.0	P	03/13/2025	19:21	LB135035
	Potassium	2000	+/-2000	U	2000	P	03/13/2025	19:21	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	19:21	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	03/13/2025	19:21	LB135035
	Vanadium	40.0	+/-40.0	U	40.0	P	03/13/2025	19:21	LB135035
	Zinc	40.0	+/-40.0	U	40.0	P	03/13/2025	19:21	LB135035

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166987BL		**WATER**		**Batch Number:**	**PB166987**		**Prep Date:**	**03/05/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	03/05/2025	12:16	LB134901

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167021BL		**SOLID**		**Batch Number:**	**PB167021**		**Prep Date:**	**03/05/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	03/06/2025	11:52	LB134917

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166977BL		**SOLID**		**Batch Number:**	**PB166977**		**Prep Date:**	**03/05/2025**	
	Aluminum	4.90	<4.90	U	4.90	P	03/12/2025	12:28	LB135011
	Antimony	2.45	<2.45	U	2.45	P	03/12/2025	12:28	LB135011
	Arsenic	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Barium	4.90	<4.90	U	4.90	P	03/12/2025	12:28	LB135011
	Beryllium	0.29	<0.29	U	0.29	P	03/12/2025	12:28	LB135011
	Cadmium	0.29	<0.29	U	0.29	P	03/12/2025	12:28	LB135011
	Calcium	98.0	<98.0	U	98.0	P	03/12/2025	12:28	LB135011
	Chromium	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011
	Cobalt	1.47	<1.47	U	1.47	P	03/12/2025	12:28	LB135011
	Copper	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Iron	4.90	<4.90	U	4.90	P	03/12/2025	12:28	LB135011
	Lead	0.59	<0.59	U	0.59	P	03/12/2025	12:28	LB135011
	Magnesium	98.0	<98.0	U	98.0	P	03/12/2025	12:28	LB135011
	Manganese	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Nickel	1.96	<1.96	U	1.96	P	03/12/2025	12:28	LB135011
	Potassium	98.0	<98.0	U	98.0	P	03/12/2025	12:28	LB135011
	Selenium	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Silver	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011
	Sodium	98.0	<98.0	U	98.0	P	03/12/2025	12:28	LB135011
	Thallium	1.96	<1.96	U	1.96	P	03/12/2025	12:28	LB135011
	Vanadium	1.96	<1.96	U	1.96	P	03/12/2025	12:28	LB135011
	Zinc	1.96	<1.96	U	1.96	P	03/12/2025	12:28	LB135011

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167002BL		**WATER**		**Batch Number:**	**PB167002**		**Prep Date:**	**03/06/2025**	
	Aluminum	50.0	<50.0	U	50.0	P	03/11/2025	13:55	LB134987
	Antimony	25.0	<25.0	U	25.0	P	03/11/2025	13:55	LB134987
	Arsenic	10.0	<10.0	U	10.0	P	03/11/2025	13:55	LB134987
	Barium	50.0	<50.0	U	50.0	P	03/11/2025	13:55	LB134987
	Beryllium	3.00	<3.00	U	3.00	P	03/11/2025	13:55	LB134987
	Cadmium	3.00	<3.00	U	3.00	P	03/11/2025	13:55	LB134987
	Calcium	1000	<1000	U	1000	P	03/11/2025	13:55	LB134987
	Chromium	5.00	<5.00	U	5.00	P	03/11/2025	13:55	LB134987
	Cobalt	15.0	<15.0	U	15.0	P	03/11/2025	13:55	LB134987
	Copper	10.0	<10.0	U	10.0	P	03/11/2025	13:55	LB134987
	Iron	50.0	<50.0	U	50.0	P	03/11/2025	13:55	LB134987
	Lead	6.00	<6.00	U	6.00	P	03/11/2025	13:55	LB134987
	Magnesium	1000	<1000	U	1000	P	03/11/2025	13:55	LB134987
	Manganese	10.0	<10.0	U	10.0	P	03/11/2025	13:55	LB134987
	Nickel	20.0	<20.0	U	20.0	P	03/11/2025	13:55	LB134987

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Instrument: P4

Potassium	1000	<1000	U	1000	P	03/11/2025	13:55	LB134987
Selenium	10.0	<10.0	U	10.0	P	03/11/2025	13:55	LB134987
Silver	5.00	<5.00	U	5.00	P	03/11/2025	13:55	LB134987
Sodium	1000	<1000	U	1000	P	03/11/2025	13:55	LB134987
Thallium	20.0	<20.0	U	20.0	P	03/11/2025	13:55	LB134987
Vanadium	20.0	<20.0	U	20.0	P	03/11/2025	13:55	LB134987
Zinc	20.0	<20.0	U	20.0	P	03/11/2025	13:55	LB134987

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
ICV31	Mercury	3.72	4.0	93	90 - 110	CV	03/05/2025	11:55	LB134901

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
CCV62	Mercury	4.88	5.0	98	90 - 110	CV	03/05/2025	12:00	LB134901
CCV63	Mercury	4.73	5.0	94	90 - 110	CV	03/05/2025	12:32	LB134901
CCV64	Mercury	4.61	5.0	92	90 - 110	CV	03/05/2025	12:48	LB134901

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
ICV33	Mercury	4.17	4.0	104	90 - 110	CV	03/06/2025	11:27	LB134917

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
CCV69	Mercury	5.04	5.0	101	90 - 110	CV	03/06/2025	11:35	LB134917
CCV70	Mercury	4.92	5.0	98	90 - 110	CV	03/06/2025	12:08	LB134917
CCV71	Mercury	4.99	5.0	100	90 - 110	CV	03/06/2025	12:35	LB134917

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	2540	2500	102	90 - 110	P	03/06/2025	10:50	LB134928
	Antimony	1020	1000	102	90 - 110	P	03/06/2025	10:50	LB134928
	Arsenic	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Barium	527	520	101	90 - 110	P	03/06/2025	10:50	LB134928
	Beryllium	532	510	104	90 - 110	P	03/06/2025	10:50	LB134928
	Cadmium	503	510	99	90 - 110	P	03/06/2025	10:50	LB134928
	Calcium	9830	10000	98	90 - 110	P	03/06/2025	10:50	LB134928
	Chromium	529	520	102	90 - 110	P	03/06/2025	10:50	LB134928
	Cobalt	509	520	98	90 - 110	P	03/06/2025	10:50	LB134928
	Copper	531	510	104	90 - 110	P	03/06/2025	10:50	LB134928
	Iron	10100	10000	101	90 - 110	P	03/06/2025	10:50	LB134928
	Lead	1010	1000	100	90 - 110	P	03/06/2025	10:50	LB134928
	Magnesium	5810	6000	97	90 - 110	P	03/06/2025	10:50	LB134928
	Manganese	503	520	97	90 - 110	P	03/06/2025	10:50	LB134928
	Nickel	512	530	97	90 - 110	P	03/06/2025	10:50	LB134928
	Potassium	9840	9900	99	90 - 110	P	03/06/2025	10:50	LB134928
	Selenium	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Silver	258	250	103	90 - 110	P	03/06/2025	10:50	LB134928
	Sodium	9530	10000	95	90 - 110	P	03/06/2025	10:50	LB134928
	Thallium	1040	1000	104	90 - 110	P	03/06/2025	10:50	LB134928
	Vanadium	514	500	103	90 - 110	P	03/06/2025	10:50	LB134928
	Zinc	1040	1000	104	90 - 110	P	03/06/2025	10:50	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	03/06/2025	11:38	LB134928
	Antimony	52.8	50.0	106	80 - 120	P	03/06/2025	11:38	LB134928
	Arsenic	19.2	20.0	96	80 - 120	P	03/06/2025	11:38	LB134928
	Barium	94.2	100	94	80 - 120	P	03/06/2025	11:38	LB134928
	Beryllium	6.02	6.0	100	80 - 120	P	03/06/2025	11:38	LB134928
	Cadmium	5.70	6.0	95	80 - 120	P	03/06/2025	11:38	LB134928
	Calcium	1990	2000	100	80 - 120	P	03/06/2025	11:38	LB134928
	Chromium	10.4	10.0	104	80 - 120	P	03/06/2025	11:38	LB134928
	Cobalt	29.0	30.0	97	80 - 120	P	03/06/2025	11:38	LB134928
	Copper	22.8	20.0	114	80 - 120	P	03/06/2025	11:38	LB134928
	Iron	102	100	102	80 - 120	P	03/06/2025	11:38	LB134928
	Lead	11.9	12.0	99	80 - 120	P	03/06/2025	11:38	LB134928
	Magnesium	2120	2000	106	80 - 120	P	03/06/2025	11:38	LB134928
	Manganese	20.3	20.0	102	80 - 120	P	03/06/2025	11:38	LB134928
	Nickel	39.1	40.0	98	80 - 120	P	03/06/2025	11:38	LB134928
	Potassium	2010	2000	100	80 - 120	P	03/06/2025	11:38	LB134928
	Selenium	20.3	20.0	101	80 - 120	P	03/06/2025	11:38	LB134928
	Silver	10.1	10.0	101	80 - 120	P	03/06/2025	11:38	LB134928
	Sodium	1900	2000	95	80 - 120	P	03/06/2025	11:38	LB134928
	Thallium	41.0	40.0	102	80 - 120	P	03/06/2025	11:38	LB134928
	Vanadium	40.2	40.0	101	80 - 120	P	03/06/2025	11:38	LB134928
	Zinc	43.1	40.0	108	80 - 120	P	03/06/2025	11:38	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	10300	10000	103	90 - 110	P	03/06/2025	12:19	LB134928
	Antimony	5210	5000	104	90 - 110	P	03/06/2025	12:19	LB134928
	Arsenic	5170	5000	103	90 - 110	P	03/06/2025	12:19	LB134928
	Barium	9900	10000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Beryllium	258	250	103	90 - 110	P	03/06/2025	12:19	LB134928
	Cadmium	2500	2500	100	90 - 110	P	03/06/2025	12:19	LB134928
	Calcium	24800	25000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Chromium	1020	1000	102	90 - 110	P	03/06/2025	12:19	LB134928
	Cobalt	2500	2500	100	90 - 110	P	03/06/2025	12:19	LB134928
	Copper	1290	1250	103	90 - 110	P	03/06/2025	12:19	LB134928
	Iron	5030	5000	101	90 - 110	P	03/06/2025	12:19	LB134928
	Lead	5010	5000	100	90 - 110	P	03/06/2025	12:19	LB134928
	Magnesium	24800	25000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Manganese	2480	2500	99	90 - 110	P	03/06/2025	12:19	LB134928
	Nickel	2500	2500	100	90 - 110	P	03/06/2025	12:19	LB134928
	Potassium	25100	25000	100	90 - 110	P	03/06/2025	12:19	LB134928
	Selenium	5210	5000	104	90 - 110	P	03/06/2025	12:19	LB134928
	Silver	1280	1250	102	90 - 110	P	03/06/2025	12:19	LB134928
	Sodium	24900	25000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Thallium	5180	5000	104	90 - 110	P	03/06/2025	12:19	LB134928
	Vanadium	2520	2500	101	90 - 110	P	03/06/2025	12:19	LB134928
	Zinc	2580	2500	103	90 - 110	P	03/06/2025	12:19	LB134928
CCV02	Aluminum	9860	10000	99	90 - 110	P	03/06/2025	13:10	LB134928
	Antimony	5080	5000	102	90 - 110	P	03/06/2025	13:10	LB134928
	Arsenic	5010	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Barium	10100	10000	101	90 - 110	P	03/06/2025	13:10	LB134928
	Beryllium	244	250	98	90 - 110	P	03/06/2025	13:10	LB134928
	Cadmium	2420	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Calcium	24200	25000	97	90 - 110	P	03/06/2025	13:10	LB134928
	Chromium	985	1000	98	90 - 110	P	03/06/2025	13:10	LB134928
	Cobalt	2420	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Copper	1250	1250	100	90 - 110	P	03/06/2025	13:10	LB134928
	Iron	5000	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	13:10	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	23800	25000	95	90 - 110	P	03/06/2025	13:10	LB134928
	Manganese	2430	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Nickel	2410	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Potassium	25100	25000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Selenium	5030	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Silver	1240	1250	100	90 - 110	P	03/06/2025	13:10	LB134928
	Sodium	25300	25000	101	90 - 110	P	03/06/2025	13:10	LB134928
	Thallium	5000	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Vanadium	2440	2500	98	90 - 110	P	03/06/2025	13:10	LB134928
	Zinc	2500	2500	100	90 - 110	P	03/06/2025	13:10	LB134928
CCV03	Aluminum	9900	10000	99	90 - 110	P	03/06/2025	14:00	LB134928
	Antimony	5120	5000	102	90 - 110	P	03/06/2025	14:00	LB134928
	Arsenic	5050	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Barium	9680	10000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Beryllium	245	250	98	90 - 110	P	03/06/2025	14:00	LB134928
	Cadmium	2430	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Calcium	24000	25000	96	90 - 110	P	03/06/2025	14:00	LB134928
	Chromium	993	1000	99	90 - 110	P	03/06/2025	14:00	LB134928
	Cobalt	2430	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Copper	1270	1250	101	90 - 110	P	03/06/2025	14:00	LB134928
	Iron	4890	5000	98	90 - 110	P	03/06/2025	14:00	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Magnesium	23800	25000	95	90 - 110	P	03/06/2025	14:00	LB134928
	Manganese	2380	2500	95	90 - 110	P	03/06/2025	14:00	LB134928
	Nickel	2420	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Potassium	24500	25000	98	90 - 110	P	03/06/2025	14:00	LB134928
	Selenium	5040	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Silver	1230	1250	98	90 - 110	P	03/06/2025	14:00	LB134928
	Sodium	24300	25000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Thallium	4850	5000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Vanadium	2420	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Zinc	2470	2500	99	90 - 110	P	03/06/2025	14:00	LB134928
CCV04	Aluminum	10000	10000	100	90 - 110	P	03/06/2025	14:50	LB134928
	Antimony	5010	5000	100	90 - 110	P	03/06/2025	14:50	LB134928

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	4960	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Barium	9740	10000	97	90 - 110	P	03/06/2025	14:50	LB134928
	Beryllium	257	250	103	90 - 110	P	03/06/2025	14:50	LB134928
	Cadmium	2460	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Calcium	24600	25000	98	90 - 110	P	03/06/2025	14:50	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	14:50	LB134928
	Cobalt	2450	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Copper	1250	1250	100	90 - 110	P	03/06/2025	14:50	LB134928
	Iron	4880	5000	98	90 - 110	P	03/06/2025	14:50	LB134928
	Lead	4910	5000	98	90 - 110	P	03/06/2025	14:50	LB134928
	Magnesium	24700	25000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Manganese	2450	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Nickel	2450	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Potassium	24000	25000	96	90 - 110	P	03/06/2025	14:50	LB134928
	Selenium	4970	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Silver	1250	1250	100	90 - 110	P	03/06/2025	14:50	LB134928
	Sodium	23700	25000	95	90 - 110	P	03/06/2025	14:50	LB134928
	Thallium	4950	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Vanadium	2470	2500	99	90 - 110	P	03/06/2025	14:50	LB134928
	Zinc	2500	2500	100	90 - 110	P	03/06/2025	14:50	LB134928
CCV05	Aluminum	9830	10000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Antimony	4990	5000	100	90 - 110	P	03/06/2025	15:53	LB134928
	Arsenic	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Barium	9790	10000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Beryllium	257	250	103	90 - 110	P	03/06/2025	15:53	LB134928
	Cadmium	2480	2500	99	90 - 110	P	03/06/2025	15:53	LB134928
	Calcium	24600	25000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	15:53	LB134928
	Cobalt	2460	2500	98	90 - 110	P	03/06/2025	15:53	LB134928
	Copper	1250	1250	100	90 - 110	P	03/06/2025	15:53	LB134928
	Iron	4880	5000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Lead	4940	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Magnesium	24900	25000	100	90 - 110	P	03/06/2025	15:53	LB134928
	Manganese	2460	2500	98	90 - 110	P	03/06/2025	15:53	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2460	2500	98	90 - 110	P	03/06/2025	15:53	LB134928
	Potassium	23700	25000	95	90 - 110	P	03/06/2025	15:53	LB134928
	Selenium	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Silver	1240	1250	99	90 - 110	P	03/06/2025	15:53	LB134928
	Sodium	23300	25000	93	90 - 110	P	03/06/2025	15:53	LB134928
	Thallium	4930	5000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Vanadium	2480	2500	99	90 - 110	P	03/06/2025	15:53	LB134928
	Zinc	2430	2500	97	90 - 110	P	03/06/2025	15:53	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	03/11/2025	10:50	LB134987
	Antimony	1010	1000	101	90 - 110	P	03/11/2025	10:50	LB134987
	Arsenic	1040	1000	104	90 - 110	P	03/11/2025	10:50	LB134987
	Barium	543	520	104	90 - 110	P	03/11/2025	10:50	LB134987
	Beryllium	507	510	99	90 - 110	P	03/11/2025	10:50	LB134987
	Cadmium	511	510	100	90 - 110	P	03/11/2025	10:50	LB134987
	Calcium	10000	10000	100	90 - 110	P	03/11/2025	10:50	LB134987
	Chromium	527	520	101	90 - 110	P	03/11/2025	10:50	LB134987
	Cobalt	520	520	100	90 - 110	P	03/11/2025	10:50	LB134987
	Copper	532	510	104	90 - 110	P	03/11/2025	10:50	LB134987
	Iron	10200	10000	102	90 - 110	P	03/11/2025	10:50	LB134987
	Lead	1020	1000	102	90 - 110	P	03/11/2025	10:50	LB134987
	Magnesium	5970	6000	100	90 - 110	P	03/11/2025	10:50	LB134987
	Manganese	515	520	99	90 - 110	P	03/11/2025	10:50	LB134987
	Nickel	517	530	98	90 - 110	P	03/11/2025	10:50	LB134987
	Potassium	9820	9900	99	90 - 110	P	03/11/2025	10:50	LB134987
	Selenium	1040	1000	104	90 - 110	P	03/11/2025	10:50	LB134987
	Silver	259	250	104	90 - 110	P	03/11/2025	10:50	LB134987
	Sodium	9690	10000	97	90 - 110	P	03/11/2025	10:50	LB134987
	Thallium	1030	1000	103	90 - 110	P	03/11/2025	10:50	LB134987
	Vanadium	524	500	105	90 - 110	P	03/11/2025	10:50	LB134987
	Zinc	1040	1000	104	90 - 110	P	03/11/2025	10:50	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	102	100	102	80 - 120	P	03/11/2025	10:54	LB134987
	Antimony	53.0	50.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Arsenic	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Barium	94.6	100	95	80 - 120	P	03/11/2025	10:54	LB134987
	Beryllium	6.23	6.0	104	80 - 120	P	03/11/2025	10:54	LB134987
	Cadmium	5.80	6.0	97	80 - 120	P	03/11/2025	10:54	LB134987
	Calcium	2010	2000	100	80 - 120	P	03/11/2025	10:54	LB134987
	Chromium	10.2	10.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Cobalt	29.3	30.0	98	80 - 120	P	03/11/2025	10:54	LB134987
	Copper	22.1	20.0	110	80 - 120	P	03/11/2025	10:54	LB134987
	Iron	93.9	100	94	80 - 120	P	03/11/2025	10:54	LB134987
	Lead	12.0	12.0	100	80 - 120	P	03/11/2025	10:54	LB134987
	Magnesium	2130	2000	107	80 - 120	P	03/11/2025	10:54	LB134987
	Manganese	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Nickel	38.4	40.0	96	80 - 120	P	03/11/2025	10:54	LB134987
	Potassium	1780	2000	89	80 - 120	P	03/11/2025	10:54	LB134987
	Selenium	20.5	20.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Silver	10.4	10.0	104	80 - 120	P	03/11/2025	10:54	LB134987
	Sodium	1850	2000	92	80 - 120	P	03/11/2025	10:54	LB134987
	Thallium	40.9	40.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Vanadium	39.7	40.0	99	80 - 120	P	03/11/2025	10:54	LB134987
	Zinc	33.7	40.0	84	80 - 120	P	03/11/2025	10:54	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Antimony	5040	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Arsenic	5010	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Barium	10200	10000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Beryllium	253	250	101	90 - 110	P	03/11/2025	11:29	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Calcium	25200	25000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Chromium	1010	1000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Cobalt	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Copper	1280	1250	102	90 - 110	P	03/11/2025	11:29	LB134987
	Iron	5080	5000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Lead	5030	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Magnesium	25200	25000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Manganese	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Nickel	2510	2500	100	90 - 110	P	03/11/2025	11:29	LB134987
	Potassium	25100	25000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Selenium	4990	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Silver	1270	1250	101	90 - 110	P	03/11/2025	11:29	LB134987
	Sodium	24700	25000	99	90 - 110	P	03/11/2025	11:29	LB134987
	Thallium	5090	5000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Vanadium	2530	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Zinc	2560	2500	102	90 - 110	P	03/11/2025	11:29	LB134987
CCV02	Aluminum	10300	10000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Antimony	5160	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Arsenic	5150	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Barium	9970	10000	100	90 - 110	P	03/11/2025	12:19	LB134987
	Beryllium	269	250	108	90 - 110	P	03/11/2025	12:19	LB134987
	Cadmium	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Calcium	25300	25000	101	90 - 110	P	03/11/2025	12:19	LB134987
	Chromium	1040	1000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Cobalt	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Copper	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
	Iron	4920	5000	98	90 - 110	P	03/11/2025	12:19	LB134987
	Lead	5120	5000	102	90 - 110	P	03/11/2025	12:19	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25400	25000	102	90 - 110	P	03/11/2025	12:19	LB134987
	Manganese	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Nickel	2550	2500	102	90 - 110	P	03/11/2025	12:19	LB134987
	Potassium	24500	25000	98	90 - 110	P	03/11/2025	12:19	LB134987
	Selenium	5170	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Silver	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
	Sodium	25000	25000	100	90 - 110	P	03/11/2025	12:19	LB134987
	Thallium	5220	5000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Vanadium	2540	2500	102	90 - 110	P	03/11/2025	12:19	LB134987
	Zinc	2620	2500	105	90 - 110	P	03/11/2025	12:19	LB134987
CCV03	Aluminum	9640	10000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Antimony	4890	5000	98	90 - 110	P	03/11/2025	13:10	LB134987
	Arsenic	4860	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Barium	9710	10000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Beryllium	251	250	100	90 - 110	P	03/11/2025	13:10	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Calcium	23800	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Chromium	964	1000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Cobalt	2440	2500	98	90 - 110	P	03/11/2025	13:10	LB134987
	Copper	1250	1250	100	90 - 110	P	03/11/2025	13:10	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Lead	4830	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Magnesium	23800	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Manganese	2410	2500	96	90 - 110	P	03/11/2025	13:10	LB134987
	Nickel	2410	2500	96	90 - 110	P	03/11/2025	13:10	LB134987
	Potassium	23700	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	13:10	LB134987
	Sodium	23200	25000	93	90 - 110	P	03/11/2025	13:10	LB134987
	Thallium	4890	5000	98	90 - 110	P	03/11/2025	13:10	LB134987
	Vanadium	2420	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Zinc	2480	2500	99	90 - 110	P	03/11/2025	13:10	LB134987
CCV04	Aluminum	9730	10000	97	90 - 110	P	03/11/2025	14:08	LB134987
	Antimony	4950	5000	99	90 - 110	P	03/11/2025	14:08	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	14:08	LB134987
	Barium	10100	10000	101	90 - 110	P	03/11/2025	14:08	LB134987
	Beryllium	248	250	99	90 - 110	P	03/11/2025	14:08	LB134987
	Cadmium	2470	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Calcium	24100	25000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Chromium	965	1000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Cobalt	2480	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	14:08	LB134987
	Iron	4970	5000	100	90 - 110	P	03/11/2025	14:08	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Magnesium	24200	25000	97	90 - 110	P	03/11/2025	14:08	LB134987
	Manganese	2450	2500	98	90 - 110	P	03/11/2025	14:08	LB134987
	Nickel	2430	2500	97	90 - 110	P	03/11/2025	14:08	LB134987
	Potassium	24900	25000	100	90 - 110	P	03/11/2025	14:08	LB134987
	Selenium	4920	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Silver	1240	1250	100	90 - 110	P	03/11/2025	14:08	LB134987
	Sodium	23900	25000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Thallium	5060	5000	101	90 - 110	P	03/11/2025	14:08	LB134987
	Vanadium	2460	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Zinc	2530	2500	101	90 - 110	P	03/11/2025	14:08	LB134987
CCV05	Aluminum	9370	10000	94	90 - 110	P	03/11/2025	15:00	LB134987
	Antimony	4830	5000	97	90 - 110	P	03/11/2025	15:00	LB134987
	Arsenic	4810	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Barium	9610	10000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Beryllium	237	250	95	90 - 110	P	03/11/2025	15:00	LB134987
	Cadmium	2400	2500	96	90 - 110	P	03/11/2025	15:00	LB134987
	Calcium	23000	25000	92	90 - 110	P	03/11/2025	15:00	LB134987
	Chromium	934	1000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Cobalt	2420	2500	97	90 - 110	P	03/11/2025	15:00	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:00	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Lead	4760	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Magnesium	23200	25000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Manganese	2370	2500	95	90 - 110	P	03/11/2025	15:00	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2360	2500	94	90 - 110	P	03/11/2025	15:00	LB134987
	Potassium	24000	25000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Selenium	4790	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Silver	1190	1250	96	90 - 110	P	03/11/2025	15:00	LB134987
	Sodium	23000	25000	92	90 - 110	P	03/11/2025	15:00	LB134987
	Thallium	4860	5000	97	90 - 110	P	03/11/2025	15:00	LB134987
	Vanadium	2370	2500	95	90 - 110	P	03/11/2025	15:00	LB134987
	Zinc	2430	2500	97	90 - 110	P	03/11/2025	15:00	LB134987
CCV06	Aluminum	9590	10000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Antimony	4830	5000	97	90 - 110	P	03/11/2025	15:50	LB134987
	Arsenic	4820	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Barium	9620	10000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Beryllium	254	250	101	90 - 110	P	03/11/2025	15:50	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Calcium	23500	25000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Cobalt	2440	2500	98	90 - 110	P	03/11/2025	15:50	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:50	LB134987
	Iron	4680	5000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Lead	4800	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Magnesium	23700	25000	95	90 - 110	P	03/11/2025	15:50	LB134987
	Manganese	2420	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Nickel	2390	2500	95	90 - 110	P	03/11/2025	15:50	LB134987
	Potassium	23500	25000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Selenium	4770	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	15:50	LB134987
	Sodium	22800	25000	91	90 - 110	P	03/11/2025	15:50	LB134987
	Thallium	4880	5000	98	90 - 110	P	03/11/2025	15:50	LB134987
	Vanadium	2410	2500	96	90 - 110	P	03/11/2025	15:50	LB134987
	Zinc	2490	2500	100	90 - 110	P	03/11/2025	15:50	LB134987
CCV07	Aluminum	9470	10000	95	90 - 110	P	03/11/2025	16:42	LB134987
	Antimony	4930	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Arsenic	4920	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Barium	9730	10000	97	90 - 110	P	03/11/2025	16:42	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	242	250	97	90 - 110	P	03/11/2025	16:42	LB134987
	Cadmium	2460	2500	98	90 - 110	P	03/11/2025	16:42	LB134987
	Calcium	23300	25000	93	90 - 110	P	03/11/2025	16:42	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	16:42	LB134987
	Cobalt	2470	2500	99	90 - 110	P	03/11/2025	16:42	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	16:42	LB134987
	Iron	4860	5000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Lead	4850	5000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Magnesium	23600	25000	94	90 - 110	P	03/11/2025	16:42	LB134987
	Manganese	2440	2500	97	90 - 110	P	03/11/2025	16:42	LB134987
	Nickel	2400	2500	96	90 - 110	P	03/11/2025	16:42	LB134987
	Potassium	24600	25000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Selenium	4910	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	16:42	LB134987
	Sodium	23300	25000	93	90 - 110	P	03/11/2025	16:42	LB134987
	Thallium	5160	5000	103	90 - 110	P	03/11/2025	16:42	LB134987
	Vanadium	2410	2500	96	90 - 110	P	03/11/2025	16:42	LB134987
	Zinc	2490	2500	99	90 - 110	P	03/11/2025	16:42	LB134987
CCV08	Aluminum	9520	10000	95	90 - 110	P	03/11/2025	17:34	LB134987
	Antimony	4950	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Barium	9820	10000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Beryllium	246	250	98	90 - 110	P	03/11/2025	17:34	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	17:34	LB134987
	Calcium	23400	25000	94	90 - 110	P	03/11/2025	17:34	LB134987
	Chromium	955	1000	96	90 - 110	P	03/11/2025	17:34	LB134987
	Cobalt	2500	2500	100	90 - 110	P	03/11/2025	17:34	LB134987
	Copper	1270	1250	102	90 - 110	P	03/11/2025	17:34	LB134987
	Iron	4880	5000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Magnesium	23700	25000	95	90 - 110	P	03/11/2025	17:34	LB134987
	Manganese	2440	2500	98	90 - 110	P	03/11/2025	17:34	LB134987
	Nickel	2420	2500	97	90 - 110	P	03/11/2025	17:34	LB134987
	Potassium	24700	25000	99	90 - 110	P	03/11/2025	17:34	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	4930	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	17:34	LB134987
	Sodium	23400	25000	94	90 - 110	P	03/11/2025	17:34	LB134987
	Thallium	5080	5000	102	90 - 110	P	03/11/2025	17:34	LB134987
	Vanadium	2430	2500	97	90 - 110	P	03/11/2025	17:34	LB134987
	Zinc	2500	2500	100	90 - 110	P	03/11/2025	17:34	LB134987
CCV09	Aluminum	9930	10000	99	90 - 110	P	03/11/2025	18:26	LB134987
	Antimony	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Arsenic	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Barium	9800	10000	98	90 - 110	P	03/11/2025	18:26	LB134987
	Beryllium	267	250	107	90 - 110	P	03/11/2025	18:26	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	18:26	LB134987
	Calcium	23900	25000	96	90 - 110	P	03/11/2025	18:26	LB134987
	Chromium	971	1000	97	90 - 110	P	03/11/2025	18:26	LB134987
	Cobalt	2530	2500	101	90 - 110	P	03/11/2025	18:26	LB134987
	Copper	1290	1250	103	90 - 110	P	03/11/2025	18:26	LB134987
	Iron	4690	5000	94	90 - 110	P	03/11/2025	18:26	LB134987
	Lead	4960	5000	99	90 - 110	P	03/11/2025	18:26	LB134987
	Magnesium	24100	25000	96	90 - 110	P	03/11/2025	18:26	LB134987
	Manganese	2470	2500	99	90 - 110	P	03/11/2025	18:26	LB134987
	Nickel	2460	2500	98	90 - 110	P	03/11/2025	18:26	LB134987
	Potassium	23400	25000	94	90 - 110	P	03/11/2025	18:26	LB134987
	Selenium	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Silver	1260	1250	101	90 - 110	P	03/11/2025	18:26	LB134987
	Sodium	22900	25000	92	90 - 110	P	03/11/2025	18:26	LB134987
	Thallium	5150	5000	103	90 - 110	P	03/11/2025	18:26	LB134987
	Vanadium	2450	2500	98	90 - 110	P	03/11/2025	18:26	LB134987
	Zinc	2550	2500	102	90 - 110	P	03/11/2025	18:26	LB134987
CCV10	Aluminum	9600	10000	96	90 - 110	P	03/11/2025	19:14	LB134987
	Antimony	4880	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Arsenic	4890	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Barium	9280	10000	93	90 - 110	P	03/11/2025	19:14	LB134987
	Beryllium	272	250	109	90 - 110	P	03/11/2025	19:14	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	19:14	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	23600	25000	94	90 - 110	P	03/11/2025	19:14	LB134987
	Chromium	968	1000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Cobalt	2480	2500	99	90 - 110	P	03/11/2025	19:14	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	19:14	LB134987
	Iron	5280	5000	106	90 - 110	P	03/11/2025	19:14	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Magnesium	24200	25000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Manganese	2470	2500	99	90 - 110	P	03/11/2025	19:14	LB134987
	Nickel	2420	2500	97	90 - 110	P	03/11/2025	19:14	LB134987
	Potassium	23500	25000	94	90 - 110	P	03/11/2025	19:14	LB134987
	Selenium	4860	5000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Silver	1230	1250	99	90 - 110	P	03/11/2025	19:14	LB134987
	Sodium	23500	25000	94	90 - 110	P	03/11/2025	19:14	LB134987
	Thallium	5120	5000	102	90 - 110	P	03/11/2025	19:14	LB134987
	Vanadium	2400	2500	96	90 - 110	P	03/11/2025	19:14	LB134987
	Zinc	2480	2500	99	90 - 110	P	03/11/2025	19:14	LB134987
CCV11	Aluminum	9320	10000	93	90 - 110	P	03/11/2025	19:26	LB134987
	Antimony	4870	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Arsenic	4830	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Barium	9770	10000	98	90 - 110	P	03/11/2025	19:26	LB134987
	Beryllium	245	250	98	90 - 110	P	03/11/2025	19:26	LB134987
	Cadmium	2390	2500	95	90 - 110	P	03/11/2025	19:26	LB134987
	Calcium	22900	25000	92	90 - 110	P	03/11/2025	19:26	LB134987
	Chromium	935	1000	94	90 - 110	P	03/11/2025	19:26	LB134987
	Cobalt	2420	2500	97	90 - 110	P	03/11/2025	19:26	LB134987
	Copper	1240	1250	100	90 - 110	P	03/11/2025	19:26	LB134987
	Iron	4770	5000	95	90 - 110	P	03/11/2025	19:26	LB134987
	Lead	4740	5000	95	90 - 110	P	03/11/2025	19:26	LB134987
	Magnesium	23200	25000	93	90 - 110	P	03/11/2025	19:26	LB134987
	Manganese	2370	2500	95	90 - 110	P	03/11/2025	19:26	LB134987
	Nickel	2350	2500	94	90 - 110	P	03/11/2025	19:26	LB134987
	Potassium	24200	25000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	19:26	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	24000	25000	96	90 - 110	P	03/11/2025	19:26	LB134987
	Thallium	4990	5000	100	90 - 110	P	03/11/2025	19:26	LB134987
	Vanadium	2370	2500	95	90 - 110	P	03/11/2025	19:26	LB134987
	Zinc	2470	2500	99	90 - 110	P	03/11/2025	19:26	LB134987
CCV12	Aluminum	9320	10000	93	90 - 110	P	03/11/2025	19:39	LB134987
	Antimony	4750	5000	95	90 - 110	P	03/11/2025	19:39	LB134987
	Arsenic	4850	5000	97	90 - 110	P	03/11/2025	19:39	LB134987
	Barium	9430	10000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Beryllium	258	250	103	90 - 110	P	03/11/2025	19:39	LB134987
	Cadmium	2380	2500	95	90 - 110	P	03/11/2025	19:39	LB134987
	Calcium	23100	25000	92	90 - 110	P	03/11/2025	19:39	LB134987
	Chromium	948	1000	95	90 - 110	P	03/11/2025	19:39	LB134987
	Cobalt	2420	2500	97	90 - 110	P	03/11/2025	19:39	LB134987
	Copper	1230	1250	99	90 - 110	P	03/11/2025	19:39	LB134987
	Iron	4570	5000	91	90 - 110	P	03/11/2025	19:39	LB134987
	Lead	4680	5000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Magnesium	23600	25000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Manganese	2390	2500	96	90 - 110	P	03/11/2025	19:39	LB134987
	Nickel	2350	2500	94	90 - 110	P	03/11/2025	19:39	LB134987
	Potassium	23700	25000	95	90 - 110	P	03/11/2025	19:39	LB134987
	Selenium	5040	5000	101	90 - 110	P	03/11/2025	19:39	LB134987
	Silver	1210	1250	97	90 - 110	P	03/11/2025	19:39	LB134987
	Sodium	22700	25000	91	90 - 110	P	03/11/2025	19:39	LB134987
	Thallium	4880	5000	98	90 - 110	P	03/11/2025	19:39	LB134987
	Vanadium	2370	2500	95	90 - 110	P	03/11/2025	19:39	LB134987
	Zinc	2430	2500	97	90 - 110	P	03/11/2025	19:39	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	03/12/2025	10:52	LB135011
	Antimony	1020	1000	102	90 - 110	P	03/12/2025	10:52	LB135011
	Arsenic	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Barium	537	520	103	90 - 110	P	03/12/2025	10:52	LB135011
	Beryllium	537	510	105	90 - 110	P	03/12/2025	10:52	LB135011
	Cadmium	506	510	99	90 - 110	P	03/12/2025	10:52	LB135011
	Calcium	10000	10000	100	90 - 110	P	03/12/2025	10:52	LB135011
	Chromium	541	520	104	90 - 110	P	03/12/2025	10:52	LB135011
	Cobalt	514	520	99	90 - 110	P	03/12/2025	10:52	LB135011
	Copper	532	510	104	90 - 110	P	03/12/2025	10:52	LB135011
	Iron	10400	10000	104	90 - 110	P	03/12/2025	10:52	LB135011
	Lead	1020	1000	102	90 - 110	P	03/12/2025	10:52	LB135011
	Magnesium	5900	6000	98	90 - 110	P	03/12/2025	10:52	LB135011
	Manganese	508	520	98	90 - 110	P	03/12/2025	10:52	LB135011
	Nickel	517	530	98	90 - 110	P	03/12/2025	10:52	LB135011
	Potassium	10200	9900	103	90 - 110	P	03/12/2025	10:52	LB135011
	Selenium	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Silver	262	250	105	90 - 110	P	03/12/2025	10:52	LB135011
	Sodium	10300	10000	103	90 - 110	P	03/12/2025	10:52	LB135011
	Thallium	1090	1000	109	90 - 110	P	03/12/2025	10:52	LB135011
	Vanadium	519	500	104	90 - 110	P	03/12/2025	10:52	LB135011
	Zinc	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	110	100	110	80 - 120	P	03/12/2025	10:56	LB135011
	Antimony	50.7	50.0	101	80 - 120	P	03/12/2025	10:56	LB135011
	Arsenic	22.2	20.0	111	80 - 120	P	03/12/2025	10:56	LB135011
	Barium	89.2	100	89	80 - 120	P	03/12/2025	10:56	LB135011
	Beryllium	5.80	6.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Cadmium	5.83	6.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Calcium	1960	2000	98	80 - 120	P	03/12/2025	10:56	LB135011
	Chromium	10.6	10.0	106	80 - 120	P	03/12/2025	10:56	LB135011
	Cobalt	29.3	30.0	98	80 - 120	P	03/12/2025	10:56	LB135011
	Copper	22.9	20.0	114	80 - 120	P	03/12/2025	10:56	LB135011
	Iron	114	100	114	80 - 120	P	03/12/2025	10:56	LB135011
	Lead	11.7	12.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Magnesium	2060	2000	103	80 - 120	P	03/12/2025	10:56	LB135011
	Manganese	19.5	20.0	98	80 - 120	P	03/12/2025	10:56	LB135011
	Nickel	38.7	40.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Potassium	1930	2000	96	80 - 120	P	03/12/2025	10:56	LB135011
	Selenium	17.5	20.0	87	80 - 120	P	03/12/2025	10:56	LB135011
	Silver	11.0	10.0	110	80 - 120	P	03/12/2025	10:56	LB135011
	Sodium	2050	2000	102	80 - 120	P	03/12/2025	10:56	LB135011
	Thallium	41.6	40.0	104	80 - 120	P	03/12/2025	10:56	LB135011
	Vanadium	40.0	40.0	100	80 - 120	P	03/12/2025	10:56	LB135011
	Zinc	42.6	40.0	106	80 - 120	P	03/12/2025	10:56	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Antimony	5040	5000	101	90 - 110	P	03/12/2025	11:29	LB135011
	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	11:29	LB135011
	Barium	9300	10000	93	90 - 110	P	03/12/2025	11:29	LB135011
	Beryllium	244	250	98	90 - 110	P	03/12/2025	11:29	LB135011
	Cadmium	2470	2500	99	90 - 110	P	03/12/2025	11:29	LB135011
	Calcium	23800	25000	95	90 - 110	P	03/12/2025	11:29	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	11:29	LB135011
	Cobalt	2460	2500	98	90 - 110	P	03/12/2025	11:29	LB135011
	Copper	1260	1250	101	90 - 110	P	03/12/2025	11:29	LB135011
	Iron	4790	5000	96	90 - 110	P	03/12/2025	11:29	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	11:29	LB135011
	Magnesium	23800	25000	95	90 - 110	P	03/12/2025	11:29	LB135011
	Manganese	2350	2500	94	90 - 110	P	03/12/2025	11:29	LB135011
	Nickel	2450	2500	98	90 - 110	P	03/12/2025	11:29	LB135011
	Potassium	24100	25000	96	90 - 110	P	03/12/2025	11:29	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Silver	1260	1250	101	90 - 110	P	03/12/2025	11:29	LB135011
	Sodium	26200	25000	105	90 - 110	P	03/12/2025	11:29	LB135011
	Thallium	5020	5000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Vanadium	2430	2500	97	90 - 110	P	03/12/2025	11:29	LB135011
	Zinc	2530	2500	101	90 - 110	P	03/12/2025	11:29	LB135011
CCV02	Aluminum	10100	10000	101	90 - 110	P	03/12/2025	12:20	LB135011
	Antimony	5230	5000	105	90 - 110	P	03/12/2025	12:20	LB135011
	Arsenic	5150	5000	103	90 - 110	P	03/12/2025	12:20	LB135011
	Barium	9180	10000	92	90 - 110	P	03/12/2025	12:20	LB135011
	Beryllium	245	250	98	90 - 110	P	03/12/2025	12:20	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	12:20	LB135011
	Calcium	23800	25000	95	90 - 110	P	03/12/2025	12:20	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	12:20	LB135011
	Cobalt	2470	2500	99	90 - 110	P	03/12/2025	12:20	LB135011
	Copper	1280	1250	102	90 - 110	P	03/12/2025	12:20	LB135011
	Iron	4890	5000	98	90 - 110	P	03/12/2025	12:20	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	12:20	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	23900	25000	96	90 - 110	P	03/12/2025	12:20	LB135011
	Manganese	2320	2500	93	90 - 110	P	03/12/2025	12:20	LB135011
	Nickel	2460	2500	98	90 - 110	P	03/12/2025	12:20	LB135011
	Potassium	24700	25000	99	90 - 110	P	03/12/2025	12:20	LB135011
	Selenium	5180	5000	104	90 - 110	P	03/12/2025	12:20	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	12:20	LB135011
	Sodium	26900	25000	107	90 - 110	P	03/12/2025	12:20	LB135011
	Thallium	5230	5000	105	90 - 110	P	03/12/2025	12:20	LB135011
	Vanadium	2430	2500	97	90 - 110	P	03/12/2025	12:20	LB135011
	Zinc	2600	2500	104	90 - 110	P	03/12/2025	12:20	LB135011
CCV03	Aluminum	10200	10000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Antimony	5190	5000	104	90 - 110	P	03/12/2025	13:10	LB135011
	Arsenic	5100	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	13:10	LB135011
	Beryllium	255	250	102	90 - 110	P	03/12/2025	13:10	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Calcium	23800	25000	95	90 - 110	P	03/12/2025	13:10	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	13:10	LB135011
	Cobalt	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Copper	1280	1250	102	90 - 110	P	03/12/2025	13:10	LB135011
	Iron	4740	5000	95	90 - 110	P	03/12/2025	13:10	LB135011
	Lead	5000	5000	100	90 - 110	P	03/12/2025	13:10	LB135011
	Magnesium	24000	25000	96	90 - 110	P	03/12/2025	13:10	LB135011
	Manganese	2340	2500	94	90 - 110	P	03/12/2025	13:10	LB135011
	Nickel	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Potassium	23900	25000	96	90 - 110	P	03/12/2025	13:10	LB135011
	Selenium	5090	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Silver	1290	1250	103	90 - 110	P	03/12/2025	13:10	LB135011
	Sodium	26200	25000	105	90 - 110	P	03/12/2025	13:10	LB135011
	Thallium	5210	5000	104	90 - 110	P	03/12/2025	13:10	LB135011
	Vanadium	2440	2500	98	90 - 110	P	03/12/2025	13:10	LB135011
	Zinc	2600	2500	104	90 - 110	P	03/12/2025	13:10	LB135011
CCV04	Aluminum	9980	10000	100	90 - 110	P	03/12/2025	14:24	LB135011
	Antimony	5180	5000	104	90 - 110	P	03/12/2025	14:24	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	5330	5000	107	90 - 110	P	03/12/2025	14:24	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	14:24	LB135011
	Beryllium	240	250	96	90 - 110	P	03/12/2025	14:24	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Calcium	23800	25000	95	90 - 110	P	03/12/2025	14:24	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	14:24	LB135011
	Cobalt	2490	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Copper	1290	1250	103	90 - 110	P	03/12/2025	14:24	LB135011
	Iron	4970	5000	100	90 - 110	P	03/12/2025	14:24	LB135011
	Lead	5090	5000	102	90 - 110	P	03/12/2025	14:24	LB135011
	Magnesium	24000	25000	96	90 - 110	P	03/12/2025	14:24	LB135011
	Manganese	2310	2500	92	90 - 110	P	03/12/2025	14:24	LB135011
	Nickel	2490	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Potassium	25200	25000	101	90 - 110	P	03/12/2025	14:24	LB135011
	Selenium	5140	5000	103	90 - 110	P	03/12/2025	14:24	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	14:24	LB135011
	Sodium	26700	25000	107	90 - 110	P	03/12/2025	14:24	LB135011
	Thallium	5310	5000	106	90 - 110	P	03/12/2025	14:24	LB135011
	Vanadium	2430	2500	97	90 - 110	P	03/12/2025	14:24	LB135011
	Zinc	2590	2500	103	90 - 110	P	03/12/2025	14:24	LB135011
CCV05	Aluminum	9840	10000	98	90 - 110	P	03/12/2025	15:25	LB135011
	Antimony	5050	5000	101	90 - 110	P	03/12/2025	15:25	LB135011
	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	15:25	LB135011
	Beryllium	235	250	94	90 - 110	P	03/12/2025	15:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Calcium	23500	25000	94	90 - 110	P	03/12/2025	15:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	15:25	LB135011
	Cobalt	2450	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Copper	1260	1250	101	90 - 110	P	03/12/2025	15:25	LB135011
	Iron	4840	5000	97	90 - 110	P	03/12/2025	15:25	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	15:25	LB135011
	Magnesium	23900	25000	96	90 - 110	P	03/12/2025	15:25	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	15:25	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	2440	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Potassium	24600	25000	98	90 - 110	P	03/12/2025	15:25	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	15:25	LB135011
	Silver	1250	1250	100	90 - 110	P	03/12/2025	15:25	LB135011
	Sodium	26000	25000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Thallium	5180	5000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Vanadium	2390	2500	96	90 - 110	P	03/12/2025	15:25	LB135011
	Zinc	2530	2500	101	90 - 110	P	03/12/2025	15:25	LB135011
CCV06	Aluminum	9800	10000	98	90 - 110	P	03/12/2025	16:25	LB135011
	Antimony	5040	5000	101	90 - 110	P	03/12/2025	16:25	LB135011
	Arsenic	5190	5000	104	90 - 110	P	03/12/2025	16:25	LB135011
	Barium	9100	10000	91	90 - 110	P	03/12/2025	16:25	LB135011
	Beryllium	239	250	96	90 - 110	P	03/12/2025	16:25	LB135011
	Cadmium	2450	2500	98	90 - 110	P	03/12/2025	16:25	LB135011
	Calcium	23200	25000	93	90 - 110	P	03/12/2025	16:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	16:25	LB135011
	Cobalt	2430	2500	97	90 - 110	P	03/12/2025	16:25	LB135011
	Copper	1260	1250	100	90 - 110	P	03/12/2025	16:25	LB135011
	Iron	4770	5000	96	90 - 110	P	03/12/2025	16:25	LB135011
	Lead	4990	5000	100	90 - 110	P	03/12/2025	16:25	LB135011
	Magnesium	23700	25000	95	90 - 110	P	03/12/2025	16:25	LB135011
	Manganese	2360	2500	94	90 - 110	P	03/12/2025	16:25	LB135011
	Nickel	2430	2500	97	90 - 110	P	03/12/2025	16:25	LB135011
	Potassium	24100	25000	96	90 - 110	P	03/12/2025	16:25	LB135011
	Selenium	4960	5000	99	90 - 110	P	03/12/2025	16:25	LB135011
	Silver	1260	1250	100	90 - 110	P	03/12/2025	16:25	LB135011
	Sodium	25700	25000	103	90 - 110	P	03/12/2025	16:25	LB135011
	Thallium	5070	5000	101	90 - 110	P	03/12/2025	16:25	LB135011
	Vanadium	2380	2500	95	90 - 110	P	03/12/2025	16:25	LB135011
	Zinc	2530	2500	101	90 - 110	P	03/12/2025	16:25	LB135011
CCV07	Aluminum	9920	10000	99	90 - 110	P	03/12/2025	17:25	LB135011
	Antimony	5200	5000	104	90 - 110	P	03/12/2025	17:25	LB135011
	Arsenic	5300	5000	106	90 - 110	P	03/12/2025	17:25	LB135011
	Barium	9240	10000	92	90 - 110	P	03/12/2025	17:25	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	234	250	94	90 - 110	P	03/12/2025	17:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Calcium	23100	25000	92	90 - 110	P	03/12/2025	17:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	17:25	LB135011
	Cobalt	2460	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Copper	1280	1250	102	90 - 110	P	03/12/2025	17:25	LB135011
	Iron	4870	5000	97	90 - 110	P	03/12/2025	17:25	LB135011
	Lead	5030	5000	101	90 - 110	P	03/12/2025	17:25	LB135011
	Magnesium	23400	25000	93	90 - 110	P	03/12/2025	17:25	LB135011
	Manganese	2250	2500	90	90 - 110	P	03/12/2025	17:25	LB135011
	Nickel	2450	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Potassium	25100	25000	100	90 - 110	P	03/12/2025	17:25	LB135011
	Selenium	5120	5000	102	90 - 110	P	03/12/2025	17:25	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	17:25	LB135011
	Sodium	26900	25000	108	90 - 110	P	03/12/2025	17:25	LB135011
	Thallium	5090	5000	102	90 - 110	P	03/12/2025	17:25	LB135011
	Vanadium	2390	2500	96	90 - 110	P	03/12/2025	17:25	LB135011
	Zinc	2560	2500	102	90 - 110	P	03/12/2025	17:25	LB135011
CCV08	Aluminum	9930	10000	99	90 - 110	P	03/12/2025	18:23	LB135011
	Antimony	5080	5000	102	90 - 110	P	03/12/2025	18:23	LB135011
	Arsenic	5240	5000	105	90 - 110	P	03/12/2025	18:23	LB135011
	Barium	9130	10000	91	90 - 110	P	03/12/2025	18:23	LB135011
	Beryllium	246	250	98	90 - 110	P	03/12/2025	18:23	LB135011
	Cadmium	2490	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Calcium	23600	25000	94	90 - 110	P	03/12/2025	18:23	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	18:23	LB135011
	Cobalt	2470	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Copper	1270	1250	102	90 - 110	P	03/12/2025	18:23	LB135011
	Iron	4810	5000	96	90 - 110	P	03/12/2025	18:23	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:23	LB135011
	Magnesium	24300	25000	97	90 - 110	P	03/12/2025	18:23	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	18:23	LB135011
	Nickel	2470	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Potassium	24200	25000	97	90 - 110	P	03/12/2025	18:23	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	5010	5000	100	90 - 110	P	03/12/2025	18:23	LB135011
	Silver	1280	1250	102	90 - 110	P	03/12/2025	18:23	LB135011
	Sodium	25600	25000	102	90 - 110	P	03/12/2025	18:23	LB135011
	Thallium	5150	5000	103	90 - 110	P	03/12/2025	18:23	LB135011
	Vanadium	2420	2500	97	90 - 110	P	03/12/2025	18:23	LB135011
	Zinc	2580	2500	103	90 - 110	P	03/12/2025	18:23	LB135011
CCV09	Aluminum	9860	10000	99	90 - 110	P	03/12/2025	18:49	LB135011
	Antimony	5130	5000	103	90 - 110	P	03/12/2025	18:49	LB135011
	Arsenic	5290	5000	106	90 - 110	P	03/12/2025	18:49	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	18:49	LB135011
	Beryllium	236	250	94	90 - 110	P	03/12/2025	18:49	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	18:49	LB135011
	Calcium	23600	25000	95	90 - 110	P	03/12/2025	18:49	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	18:49	LB135011
	Cobalt	2480	2500	99	90 - 110	P	03/12/2025	18:49	LB135011
	Copper	1280	1250	102	90 - 110	P	03/12/2025	18:49	LB135011
	Iron	4960	5000	99	90 - 110	P	03/12/2025	18:49	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Magnesium	24100	25000	96	90 - 110	P	03/12/2025	18:49	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	18:49	LB135011
	Nickel	2480	2500	99	90 - 110	P	03/12/2025	18:49	LB135011
	Potassium	25400	25000	102	90 - 110	P	03/12/2025	18:49	LB135011
	Selenium	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	18:49	LB135011
	Sodium	26300	25000	105	90 - 110	P	03/12/2025	18:49	LB135011
	Thallium	5100	5000	102	90 - 110	P	03/12/2025	18:49	LB135011
	Vanadium	2420	2500	97	90 - 110	P	03/12/2025	18:49	LB135011
	Zinc	2560	2500	102	90 - 110	P	03/12/2025	18:49	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	2510	2500	100	90 - 110	P	03/13/2025	12:07	LB135035
	Antimony	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Arsenic	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Barium	533	520	102	90 - 110	P	03/13/2025	12:07	LB135035
	Beryllium	536	510	105	90 - 110	P	03/13/2025	12:07	LB135035
	Cadmium	503	510	99	90 - 110	P	03/13/2025	12:07	LB135035
	Calcium	9870	10000	99	90 - 110	P	03/13/2025	12:07	LB135035
	Chromium	525	520	101	90 - 110	P	03/13/2025	12:07	LB135035
	Cobalt	510	520	98	90 - 110	P	03/13/2025	12:07	LB135035
	Copper	529	510	104	90 - 110	P	03/13/2025	12:07	LB135035
	Iron	9860	10000	99	90 - 110	P	03/13/2025	12:07	LB135035
	Lead	1000	1000	100	90 - 110	P	03/13/2025	12:07	LB135035
	Magnesium	6270	6000	105	90 - 110	P	03/13/2025	12:07	LB135035
	Manganese	542	520	104	90 - 110	P	03/13/2025	12:07	LB135035
	Nickel	545	530	103	90 - 110	P	03/13/2025	12:07	LB135035
	Potassium	10100	9900	102	90 - 110	P	03/13/2025	12:07	LB135035
	Selenium	1040	1000	104	90 - 110	P	03/13/2025	12:07	LB135035
	Silver	252	250	101	90 - 110	P	03/13/2025	12:07	LB135035
	Sodium	10200	10000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Thallium	1050	1000	105	90 - 110	P	03/13/2025	12:07	LB135035
	Vanadium	518	500	104	90 - 110	P	03/13/2025	12:07	LB135035
	Zinc	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	98.6	100	99	80 - 120	P	03/13/2025	12:13	LB135035
	Antimony	54.3	50.0	109	80 - 120	P	03/13/2025	12:13	LB135035
	Arsenic	17.3	20.0	86	80 - 120	P	03/13/2025	12:13	LB135035
	Barium	92.2	100	92	80 - 120	P	03/13/2025	12:13	LB135035
	Beryllium	6.15	6.0	102	80 - 120	P	03/13/2025	12:13	LB135035
	Cadmium	5.95	6.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Calcium	1970	2000	99	80 - 120	P	03/13/2025	12:13	LB135035
	Chromium	10.1	10.0	101	80 - 120	P	03/13/2025	12:13	LB135035
	Cobalt	29.7	30.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Copper	22.7	20.0	114	80 - 120	P	03/13/2025	12:13	LB135035
	Iron	101	100	101	80 - 120	P	03/13/2025	12:13	LB135035
	Lead	12.6	12.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Magnesium	2100	2000	105	80 - 120	P	03/13/2025	12:13	LB135035
	Manganese	19.6	20.0	98	80 - 120	P	03/13/2025	12:13	LB135035
	Nickel	39.7	40.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Potassium	1850	2000	92	80 - 120	P	03/13/2025	12:13	LB135035
	Selenium	19.2	20.0	96	80 - 120	P	03/13/2025	12:13	LB135035
	Silver	10.6	10.0	106	80 - 120	P	03/13/2025	12:13	LB135035
	Sodium	1740	2000	87	80 - 120	P	03/13/2025	12:13	LB135035
	Thallium	42.1	40.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Vanadium	39.3	40.0	98	80 - 120	P	03/13/2025	12:13	LB135035
	Zinc	41.3	40.0	103	80 - 120	P	03/13/2025	12:13	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	10300	10000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Antimony	5060	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
	Arsenic	5160	5000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Barium	9860	10000	99	90 - 110	P	03/13/2025	12:53	LB135035
	Beryllium	274	250	110	90 - 110	P	03/13/2025	12:53	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	12:53	LB135035
	Calcium	25500	25000	102	90 - 110	P	03/13/2025	12:53	LB135035
	Chromium	1050	1000	105	90 - 110	P	03/13/2025	12:53	LB135035
	Cobalt	2560	2500	102	90 - 110	P	03/13/2025	12:53	LB135035
	Copper	1280	1250	103	90 - 110	P	03/13/2025	12:53	LB135035
	Iron	4890	5000	98	90 - 110	P	03/13/2025	12:53	LB135035
	Lead	5190	5000	104	90 - 110	P	03/13/2025	12:53	LB135035
	Magnesium	25700	25000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Manganese	2530	2500	101	90 - 110	P	03/13/2025	12:53	LB135035
	Nickel	2560	2500	102	90 - 110	P	03/13/2025	12:53	LB135035
	Potassium	23900	25000	96	90 - 110	P	03/13/2025	12:53	LB135035
	Selenium	5070	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
	Silver	1300	1250	104	90 - 110	P	03/13/2025	12:53	LB135035
	Sodium	24000	25000	96	90 - 110	P	03/13/2025	12:53	LB135035
	Thallium	5100	5000	102	90 - 110	P	03/13/2025	12:53	LB135035
	Vanadium	2550	2500	102	90 - 110	P	03/13/2025	12:53	LB135035
	Zinc	2600	2500	104	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Aluminum	10400	10000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Antimony	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Arsenic	5290	5000	106	90 - 110	P	03/13/2025	13:49	LB135035
	Barium	10100	10000	101	90 - 110	P	03/13/2025	13:49	LB135035
	Beryllium	268	250	107	90 - 110	P	03/13/2025	13:49	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
	Calcium	26000	25000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Chromium	1100	1000	110	90 - 110	P	03/13/2025	13:49	LB135035
	Cobalt	2610	2500	104	90 - 110	P	03/13/2025	13:49	LB135035
	Copper	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
	Iron	5130	5000	103	90 - 110	P	03/13/2025	13:49	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	13:49	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	26100	25000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Manganese	2580	2500	103	90 - 110	P	03/13/2025	13:49	LB135035
	Nickel	2600	2500	104	90 - 110	P	03/13/2025	13:49	LB135035
	Potassium	25100	25000	100	90 - 110	P	03/13/2025	13:49	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
	Sodium	25600	25000	102	90 - 110	P	03/13/2025	13:49	LB135035
	Thallium	5110	5000	102	90 - 110	P	03/13/2025	13:49	LB135035
	Vanadium	2600	2500	104	90 - 110	P	03/13/2025	13:49	LB135035
	Zinc	2620	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Aluminum	10100	10000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Antimony	5040	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Arsenic	5130	5000	102	90 - 110	P	03/13/2025	14:40	LB135035
	Barium	9830	10000	98	90 - 110	P	03/13/2025	14:40	LB135035
	Beryllium	261	250	104	90 - 110	P	03/13/2025	14:40	LB135035
	Cadmium	2540	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
	Calcium	25100	25000	100	90 - 110	P	03/13/2025	14:40	LB135035
	Chromium	1050	1000	106	90 - 110	P	03/13/2025	14:40	LB135035
	Cobalt	2520	2500	101	90 - 110	P	03/13/2025	14:40	LB135035
	Copper	1270	1250	102	90 - 110	P	03/13/2025	14:40	LB135035
	Iron	4990	5000	100	90 - 110	P	03/13/2025	14:40	LB135035
	Lead	5150	5000	103	90 - 110	P	03/13/2025	14:40	LB135035
	Magnesium	25100	25000	100	90 - 110	P	03/13/2025	14:40	LB135035
	Manganese	2490	2500	100	90 - 110	P	03/13/2025	14:40	LB135035
	Nickel	2530	2500	101	90 - 110	P	03/13/2025	14:40	LB135035
	Potassium	24500	25000	98	90 - 110	P	03/13/2025	14:40	LB135035
	Selenium	5060	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Silver	1280	1250	103	90 - 110	P	03/13/2025	14:40	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	14:40	LB135035
	Thallium	4970	5000	99	90 - 110	P	03/13/2025	14:40	LB135035
	Vanadium	2520	2500	101	90 - 110	P	03/13/2025	14:40	LB135035
	Zinc	2560	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Aluminum	9840	10000	98	90 - 110	P	03/13/2025	15:38	LB135035
	Antimony	4840	5000	97	90 - 110	P	03/13/2025	15:38	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Barium	9580	10000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Beryllium	261	250	104	90 - 110	P	03/13/2025	15:38	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	15:38	LB135035
	Calcium	24900	25000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Chromium	1030	1000	103	90 - 110	P	03/13/2025	15:38	LB135035
	Cobalt	2480	2500	99	90 - 110	P	03/13/2025	15:38	LB135035
	Copper	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
	Iron	4780	5000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Lead	5050	5000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Magnesium	25300	25000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Manganese	2440	2500	98	90 - 110	P	03/13/2025	15:38	LB135035
	Nickel	2480	2500	99	90 - 110	P	03/13/2025	15:38	LB135035
	Potassium	23200	25000	93	90 - 110	P	03/13/2025	15:38	LB135035
	Selenium	4830	5000	97	90 - 110	P	03/13/2025	15:38	LB135035
	Silver	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
	Sodium	22900	25000	92	90 - 110	P	03/13/2025	15:38	LB135035
	Thallium	4900	5000	98	90 - 110	P	03/13/2025	15:38	LB135035
	Vanadium	2470	2500	99	90 - 110	P	03/13/2025	15:38	LB135035
	Zinc	2460	2500	98	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Aluminum	10100	10000	101	90 - 110	P	03/13/2025	16:28	LB135035
	Antimony	5130	5000	102	90 - 110	P	03/13/2025	16:28	LB135035
	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	16:28	LB135035
	Barium	9880	10000	99	90 - 110	P	03/13/2025	16:28	LB135035
	Beryllium	264	250	106	90 - 110	P	03/13/2025	16:28	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Calcium	25600	25000	102	90 - 110	P	03/13/2025	16:28	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	16:28	LB135035
	Cobalt	2610	2500	104	90 - 110	P	03/13/2025	16:28	LB135035
	Copper	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
	Iron	5120	5000	102	90 - 110	P	03/13/2025	16:28	LB135035
	Lead	5300	5000	106	90 - 110	P	03/13/2025	16:28	LB135035
	Magnesium	25900	25000	104	90 - 110	P	03/13/2025	16:28	LB135035
	Manganese	2530	2500	101	90 - 110	P	03/13/2025	16:28	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	2620	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Potassium	25000	25000	100	90 - 110	P	03/13/2025	16:28	LB135035
	Selenium	5150	5000	103	90 - 110	P	03/13/2025	16:28	LB135035
	Silver	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	16:28	LB135035
	Thallium	5190	5000	104	90 - 110	P	03/13/2025	16:28	LB135035
	Vanadium	2550	2500	102	90 - 110	P	03/13/2025	16:28	LB135035
	Zinc	2580	2500	103	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Aluminum	10000	10000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Antimony	4980	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Arsenic	5070	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Barium	9980	10000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Beryllium	264	250	106	90 - 110	P	03/13/2025	17:21	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	17:21	LB135035
	Calcium	25700	25000	103	90 - 110	P	03/13/2025	17:21	LB135035
	Chromium	1060	1000	106	90 - 110	P	03/13/2025	17:21	LB135035
	Cobalt	2550	2500	102	90 - 110	P	03/13/2025	17:21	LB135035
	Copper	1270	1250	102	90 - 110	P	03/13/2025	17:21	LB135035
	Iron	5040	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Lead	5180	5000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Magnesium	26000	25000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Manganese	2510	2500	100	90 - 110	P	03/13/2025	17:21	LB135035
	Nickel	2550	2500	102	90 - 110	P	03/13/2025	17:21	LB135035
	Potassium	24800	25000	99	90 - 110	P	03/13/2025	17:21	LB135035
	Selenium	4970	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Silver	1290	1250	103	90 - 110	P	03/13/2025	17:21	LB135035
	Sodium	24100	25000	96	90 - 110	P	03/13/2025	17:21	LB135035
	Thallium	5070	5000	102	90 - 110	P	03/13/2025	17:21	LB135035
	Vanadium	2540	2500	102	90 - 110	P	03/13/2025	17:21	LB135035
	Zinc	2550	2500	102	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Aluminum	10200	10000	102	90 - 110	P	03/13/2025	18:12	LB135035
	Antimony	5160	5000	103	90 - 110	P	03/13/2025	18:12	LB135035
	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	18:12	LB135035
	Barium	9960	10000	100	90 - 110	P	03/13/2025	18:12	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	267	250	107	90 - 110	P	03/13/2025	18:12	LB135035
	Cadmium	2640	2500	106	90 - 110	P	03/13/2025	18:12	LB135035
	Calcium	25800	25000	103	90 - 110	P	03/13/2025	18:12	LB135035
	Chromium	1090	1000	109	90 - 110	P	03/13/2025	18:12	LB135035
	Cobalt	2620	2500	105	90 - 110	P	03/13/2025	18:12	LB135035
	Copper	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
	Iron	5150	5000	103	90 - 110	P	03/13/2025	18:12	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	18:12	LB135035
	Magnesium	26100	25000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Manganese	2540	2500	102	90 - 110	P	03/13/2025	18:12	LB135035
	Nickel	2620	2500	105	90 - 110	P	03/13/2025	18:12	LB135035
	Potassium	25000	25000	100	90 - 110	P	03/13/2025	18:12	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	18:12	LB135035
	Thallium	5220	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Vanadium	2570	2500	103	90 - 110	P	03/13/2025	18:12	LB135035
	Zinc	2600	2500	104	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Aluminum	9620	10000	96	90 - 110	P	03/13/2025	18:53	LB135035
	Antimony	4850	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Barium	9390	10000	94	90 - 110	P	03/13/2025	18:53	LB135035
	Beryllium	260	250	104	90 - 110	P	03/13/2025	18:53	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	18:53	LB135035
	Calcium	24700	25000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Chromium	1040	1000	104	90 - 110	P	03/13/2025	18:53	LB135035
	Cobalt	2480	2500	99	90 - 110	P	03/13/2025	18:53	LB135035
	Copper	1240	1250	99	90 - 110	P	03/13/2025	18:53	LB135035
	Iron	4880	5000	98	90 - 110	P	03/13/2025	18:53	LB135035
	Lead	5060	5000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Magnesium	25200	25000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Manganese	2440	2500	98	90 - 110	P	03/13/2025	18:53	LB135035
	Nickel	2480	2500	99	90 - 110	P	03/13/2025	18:53	LB135035
	Potassium	23400	25000	94	90 - 110	P	03/13/2025	18:53	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	4840	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
	Silver	1250	1250	100	90 - 110	P	03/13/2025	18:53	LB135035
	Sodium	23400	25000	94	90 - 110	P	03/13/2025	18:53	LB135035
	Thallium	4920	5000	98	90 - 110	P	03/13/2025	18:53	LB135035
	Vanadium	2460	2500	98	90 - 110	P	03/13/2025	18:53	LB135035
	Zinc	2330	2500	93	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Aluminum	9650	10000	96	90 - 110	P	03/13/2025	19:12	LB135035
	Antimony	5060	5000	101	90 - 110	P	03/13/2025	19:12	LB135035
	Arsenic	5280	5000	106	90 - 110	P	03/13/2025	19:12	LB135035
	Barium	9620	10000	96	90 - 110	P	03/13/2025	19:12	LB135035
	Beryllium	258	250	103	90 - 110	P	03/13/2025	19:12	LB135035
	Cadmium	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Calcium	24600	25000	98	90 - 110	P	03/13/2025	19:12	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	19:12	LB135035
	Cobalt	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Copper	1290	1250	103	90 - 110	P	03/13/2025	19:12	LB135035
	Iron	5230	5000	105	90 - 110	P	03/13/2025	19:12	LB135035
	Lead	5120	5000	102	90 - 110	P	03/13/2025	19:12	LB135035
	Magnesium	24800	25000	99	90 - 110	P	03/13/2025	19:12	LB135035
	Manganese	2450	2500	98	90 - 110	P	03/13/2025	19:12	LB135035
	Nickel	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Potassium	24400	25000	98	90 - 110	P	03/13/2025	19:12	LB135035
	Selenium	5440	5000	109	90 - 110	P	03/13/2025	19:12	LB135035
	Silver	1290	1250	104	90 - 110	P	03/13/2025	19:12	LB135035
	Sodium	23500	25000	94	90 - 110	P	03/13/2025	19:12	LB135035
	Thallium	5020	5000	100	90 - 110	P	03/13/2025	19:12	LB135035
	Vanadium	2460	2500	98	90 - 110	P	03/13/2025	19:12	LB135035
	Zinc	2490	2500	100	90 - 110	P	03/13/2025	19:12	LB135035

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	0.22	0.2	110	40 - 160	CV	03/05/2025	12:07	LB134901
CRA	Mercury	0.17	0.2	83	40 - 160	CV	03/06/2025	11:42	LB134917
CRI01	Aluminum	103	100	103	40 - 160	P	03/06/2025	11:47	LB134928
	Antimony	51.5	50.0	103	40 - 160	P	03/06/2025	11:47	LB134928
	Arsenic	22.6	20.0	113	40 - 160	P	03/06/2025	11:47	LB134928
	Barium	92.7	100	93	40 - 160	P	03/06/2025	11:47	LB134928
	Beryllium	6.22	6.0	104	40 - 160	P	03/06/2025	11:47	LB134928
	Cadmium	5.78	6.0	96	40 - 160	P	03/06/2025	11:47	LB134928
	Calcium	1990	2000	100	40 - 160	P	03/06/2025	11:47	LB134928
	Chromium	10.1	10.0	101	40 - 160	P	03/06/2025	11:47	LB134928
	Cobalt	29.0	30.0	97	40 - 160	P	03/06/2025	11:47	LB134928
	Copper	22.6	20.0	113	40 - 160	P	03/06/2025	11:47	LB134928
	Iron	99.1	100	99	40 - 160	P	03/06/2025	11:47	LB134928
	Lead	12.6	12.0	105	40 - 160	P	03/06/2025	11:47	LB134928
	Magnesium	2110	2000	106	40 - 160	P	03/06/2025	11:47	LB134928
	Manganese	20.8	20.0	104	40 - 160	P	03/06/2025	11:47	LB134928
	Nickel	39.3	40.0	98	40 - 160	P	03/06/2025	11:47	LB134928
	Potassium	1900	2000	95	40 - 160	P	03/06/2025	11:47	LB134928
	Selenium	22.0	20.0	110	40 - 160	P	03/06/2025	11:47	LB134928
	Silver	10.2	10.0	102	40 - 160	P	03/06/2025	11:47	LB134928
	Sodium	1810	2000	90	40 - 160	P	03/06/2025	11:47	LB134928
	Thallium	40.8	40.0	102	40 - 160	P	03/06/2025	11:47	LB134928
	Vanadium	39.3	40.0	98	40 - 160	P	03/06/2025	11:47	LB134928
	Zinc	42.2	40.0	105	40 - 160	P	03/06/2025	11:47	LB134928
CRI01	Aluminum	99.1	100	99	40 - 160	P	03/11/2025	11:02	LB134987
	Antimony	52.5	50.0	105	40 - 160	P	03/11/2025	11:02	LB134987
	Arsenic	19.0	20.0	95	40 - 160	P	03/11/2025	11:02	LB134987
	Barium	95.1	100	95	40 - 160	P	03/11/2025	11:02	LB134987
	Beryllium	5.91	6.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Cadmium	5.81	6.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Calcium	2000	2000	100	40 - 160	P	03/11/2025	11:02	LB134987
	Chromium	9.83	10.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Cobalt	29.2	30.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Copper	22.1	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Iron	89.9	100	90	40 - 160	P	03/11/2025	11:02	LB134987

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	11.9	12.0	99	40 - 160	P	03/11/2025	11:02	LB134987
	Magnesium	2130	2000	106	40 - 160	P	03/11/2025	11:02	LB134987
	Manganese	21.6	20.0	108	40 - 160	P	03/11/2025	11:02	LB134987
	Nickel	38.2	40.0	96	40 - 160	P	03/11/2025	11:02	LB134987
	Potassium	1860	2000	93	40 - 160	P	03/11/2025	11:02	LB134987
	Selenium	21.9	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Silver	10.3	10.0	103	40 - 160	P	03/11/2025	11:02	LB134987
	Sodium	1940	2000	97	40 - 160	P	03/11/2025	11:02	LB134987
	Thallium	41.5	40.0	104	40 - 160	P	03/11/2025	11:02	LB134987
	Vanadium	39.1	40.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Zinc	33.2	40.0	83	40 - 160	P	03/11/2025	11:02	LB134987
CRI01	Aluminum	107	100	106	40 - 160	P	03/12/2025	11:05	LB135011
	Antimony	51.9	50.0	104	40 - 160	P	03/12/2025	11:05	LB135011
	Arsenic	20.1	20.0	100	40 - 160	P	03/12/2025	11:05	LB135011
	Barium	88.8	100	89	40 - 160	P	03/12/2025	11:05	LB135011
	Beryllium	5.53	6.0	92	40 - 160	P	03/12/2025	11:05	LB135011
	Cadmium	5.85	6.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Calcium	1940	2000	97	40 - 160	P	03/12/2025	11:05	LB135011
	Chromium	10.3	10.0	103	40 - 160	P	03/12/2025	11:05	LB135011
	Cobalt	29.3	30.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Copper	22.6	20.0	113	40 - 160	P	03/12/2025	11:05	LB135011
	Iron	98.7	100	99	40 - 160	P	03/12/2025	11:05	LB135011
	Lead	10.9	12.0	91	40 - 160	P	03/12/2025	11:05	LB135011
	Magnesium	2030	2000	102	40 - 160	P	03/12/2025	11:05	LB135011
	Manganese	19.2	20.0	96	40 - 160	P	03/12/2025	11:05	LB135011
	Nickel	38.9	40.0	97	40 - 160	P	03/12/2025	11:05	LB135011
	Potassium	1970	2000	98	40 - 160	P	03/12/2025	11:05	LB135011
	Selenium	18.3	20.0	92	40 - 160	P	03/12/2025	11:05	LB135011
	Silver	11.1	10.0	111	40 - 160	P	03/12/2025	11:05	LB135011
	Sodium	2100	2000	105	40 - 160	P	03/12/2025	11:05	LB135011
	Thallium	42.1	40.0	105	40 - 160	P	03/12/2025	11:05	LB135011
	Vanadium	39.4	40.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Zinc	42.3	40.0	106	40 - 160	P	03/12/2025	11:05	LB135011
CRI01	Aluminum	99.2	100	99	40 - 160	P	03/13/2025	12:21	LB135035
	Antimony	52.9	50.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Arsenic	21.2	20.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Barium	94.0	100	94	40 - 160	P	03/13/2025	12:21	LB135035
	Beryllium	6.07	6.0	101	40 - 160	P	03/13/2025	12:21	LB135035

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Cadmium	5.90	6.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Calcium	2020	2000	101	40 - 160	P	03/13/2025	12:21	LB135035
	Chromium	10.4	10.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Cobalt	30.2	30.0	101	40 - 160	P	03/13/2025	12:21	LB135035
	Copper	23.1	20.0	116	40 - 160	P	03/13/2025	12:21	LB135035
	Iron	110	100	110	40 - 160	P	03/13/2025	12:21	LB135035
	Lead	11.7	12.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Magnesium	2140	2000	107	40 - 160	P	03/13/2025	12:21	LB135035
	Manganese	20.6	20.0	103	40 - 160	P	03/13/2025	12:21	LB135035
	Nickel	39.8	40.0	100	40 - 160	P	03/13/2025	12:21	LB135035
	Potassium	1920	2000	96	40 - 160	P	03/13/2025	12:21	LB135035
	Selenium	21.3	20.0	107	40 - 160	P	03/13/2025	12:21	LB135035
	Silver	10.6	10.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Sodium	1830	2000	91	40 - 160	P	03/13/2025	12:21	LB135035
	Thallium	41.6	40.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Vanadium	41.0	40.0	102	40 - 160	P	03/13/2025	12:21	LB135035
	Zinc	42.5	40.0	106	40 - 160	P	03/13/2025	12:21	LB135035

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	244000	255000	96	216000	294000	03/06/2025	11:51	LB134928
	Antimony	-7.18			-50	50	03/06/2025	11:51	LB134928
	Arsenic	12.0			-20	20	03/06/2025	11:51	LB134928
	Barium	2.98	6.0	50	-94	106	03/06/2025	11:51	LB134928
	Beryllium	1.26			-6	6	03/06/2025	11:51	LB134928
	Cadmium	-4.02	1.0	402	-5	7	03/06/2025	11:51	LB134928
	Calcium	230000	245000	94	208000	282000	03/06/2025	11:51	LB134928
	Chromium	55.3	52.0	106	42	62	03/06/2025	11:51	LB134928
	Cobalt	1.86			-30	30	03/06/2025	11:51	LB134928
	Copper	17.0	2.0	850	-18	22	03/06/2025	11:51	LB134928
	Iron	99700	101000	99	85600	116500	03/06/2025	11:51	LB134928
	Lead	6.40			-12	12	03/06/2025	11:51	LB134928
	Magnesium	250000	255000	98	216000	294000	03/06/2025	11:51	LB134928
	Manganese	10.5	7.0	150	-13	27	03/06/2025	11:51	LB134928
	Nickel	2.72	2.0	136	-38	42	03/06/2025	11:51	LB134928
	Potassium	42.3			0	0	03/06/2025	11:51	LB134928
	Selenium	2.15			-20	20	03/06/2025	11:51	LB134928
	Silver	0.89			-10	10	03/06/2025	11:51	LB134928
	Sodium	71.1			0	0	03/06/2025	11:51	LB134928
	Thallium	7.90			-40	40	03/06/2025	11:51	LB134928
	Vanadium	3.17			-40	40	03/06/2025	11:51	LB134928
	Zinc	4.07			-40	40	03/06/2025	11:51	LB134928
ICSAB01	Aluminum	256000	247000	104	209000	285000	03/06/2025	12:04	LB134928
	Antimony	633	618	102	525	711	03/06/2025	12:04	LB134928
	Arsenic	98.3	104	94	88.4	120	03/06/2025	12:04	LB134928
	Barium	498	537	93	437	637	03/06/2025	12:04	LB134928
	Beryllium	505	495	102	420	570	03/06/2025	12:04	LB134928
	Cadmium	1010	972	104	826	1120	03/06/2025	12:04	LB134928
	Calcium	238000	235000	101	199000	271000	03/06/2025	12:04	LB134928
	Chromium	567	542	105	460	624	03/06/2025	12:04	LB134928
	Cobalt	516	476	108	404	548	03/06/2025	12:04	LB134928
	Copper	537	511	105	434	588	03/06/2025	12:04	LB134928
	Iron	100000	99300	101	84400	114500	03/06/2025	12:04	LB134928
	Lead	55.0	49.0	112	37	61	03/06/2025	12:04	LB134928
	Magnesium	257000	248000	104	210000	286000	03/06/2025	12:04	LB134928
	Manganese	499	507	98	430	584	03/06/2025	12:04	LB134928
	Nickel	1020	954	107	810	1100	03/06/2025	12:04	LB134928
	Potassium	-13.0			0	0	03/06/2025	12:04	LB134928
	Selenium	47.8	46.0	104	26	66	03/06/2025	12:04	LB134928
	Silver	190	201	94	170	232	03/06/2025	12:04	LB134928
	Sodium	38.8			0	0	03/06/2025	12:04	LB134928
	Thallium	109	108	101	68	148	03/06/2025	12:04	LB134928

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	481	491	98	417	565	03/06/2025	12:04	LB134928
	Zinc	1070	952	112	809	1095	03/06/2025	12:04	LB134928
ICSA01	Aluminum	248000	255000	97	216000	294000	03/11/2025	11:06	LB134987
	Antimony	-2.80			-50	50	03/11/2025	11:06	LB134987
	Arsenic	6.46			-20	20	03/11/2025	11:06	LB134987
	Barium	5.32	6.0	89	-94	106	03/11/2025	11:06	LB134987
	Beryllium	1.26			-6	6	03/11/2025	11:06	LB134987
	Cadmium	-2.31	1.0	231	-5	7	03/11/2025	11:06	LB134987
	Calcium	237000	245000	97	208000	282000	03/11/2025	11:06	LB134987
	Chromium	58.2	52.0	112	42	62	03/11/2025	11:06	LB134987
	Cobalt	1.96			-30	30	03/11/2025	11:06	LB134987
	Copper	6.76	2.0	338	-18	22	03/11/2025	11:06	LB134987
	Iron	102000	101000	101	85600	116500	03/11/2025	11:06	LB134987
	Lead	3.81			-12	12	03/11/2025	11:06	LB134987
	Magnesium	258000	255000	101	216000	294000	03/11/2025	11:06	LB134987
	Manganese	5.00	7.0	71	-13	27	03/11/2025	11:06	LB134987
	Nickel	1.76	2.0	88	-38	42	03/11/2025	11:06	LB134987
	Potassium	-40.0			0	0	03/11/2025	11:06	LB134987
	Selenium	-16.3			-20	20	03/11/2025	11:06	LB134987
	Silver	-0.94			-10	10	03/11/2025	11:06	LB134987
	Sodium	60.3			0	0	03/11/2025	11:06	LB134987
	Thallium	9.64			-40	40	03/11/2025	11:06	LB134987
	Vanadium	3.52			-40	40	03/11/2025	11:06	LB134987
	Zinc	-3.79			-40	40	03/11/2025	11:06	LB134987
ICSAB01	Aluminum	249000	247000	101	209000	285000	03/11/2025	11:11	LB134987
	Antimony	612	618	99	525	711	03/11/2025	11:11	LB134987
	Arsenic	114	104	110	88.4	120	03/11/2025	11:11	LB134987
	Barium	487	537	91	437	637	03/11/2025	11:11	LB134987
	Beryllium	521	495	105	420	570	03/11/2025	11:11	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:11	LB134987
	Calcium	235000	235000	100	199000	271000	03/11/2025	11:11	LB134987
	Chromium	567	542	105	460	624	03/11/2025	11:11	LB134987
	Cobalt	518	476	109	404	548	03/11/2025	11:11	LB134987
	Copper	507	511	99	434	588	03/11/2025	11:11	LB134987
	Iron	97400	99300	98	84400	114500	03/11/2025	11:11	LB134987
	Lead	55.7	49.0	114	37	61	03/11/2025	11:11	LB134987
	Magnesium	256000	248000	103	210000	286000	03/11/2025	11:11	LB134987
	Manganese	489	507	96	430	584	03/11/2025	11:11	LB134987
	Nickel	1020	954	107	810	1100	03/11/2025	11:11	LB134987
	Potassium	-41.6			0	0	03/11/2025	11:11	LB134987
	Selenium	32.4	46.0	70	26	66	03/11/2025	11:11	LB134987
	Silver	220	201	110	170	232	03/11/2025	11:11	LB134987

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	56.3			0	0	03/11/2025	11:11	LB134987
	Thallium	105	108	97	68	148	03/11/2025	11:11	LB134987
	Vanadium	478	491	97	417	565	03/11/2025	11:11	LB134987
	Zinc	1070	952	112	809	1095	03/11/2025	11:11	LB134987
ICSA01	Aluminum	249000	255000	98	216000	294000	03/12/2025	11:09	LB135011
	Antimony	-5.28			-50	50	03/12/2025	11:09	LB135011
	Arsenic	5.78			-20	20	03/12/2025	11:09	LB135011
	Barium	1.43	6.0	24	-94	106	03/12/2025	11:09	LB135011
	Beryllium	1.22			-6	6	03/12/2025	11:09	LB135011
	Cadmium	-3.50	1.0	350	-5	7	03/12/2025	11:09	LB135011
	Calcium	232000	245000	95	208000	282000	03/12/2025	11:09	LB135011
	Chromium	60.0	52.0	115	42	62	03/12/2025	11:09	LB135011
	Cobalt	1.79			-30	30	03/12/2025	11:09	LB135011
	Copper	7.26	2.0	363	-18	22	03/12/2025	11:09	LB135011
	Iron	104000	101000	103	85600	116500	03/12/2025	11:09	LB135011
	Lead	5.99			-12	12	03/12/2025	11:09	LB135011
	Magnesium	249000	255000	98	216000	294000	03/12/2025	11:09	LB135011
	Manganese	2.80	7.0	40	-13	27	03/12/2025	11:09	LB135011
	Nickel	1.62	2.0	81	-38	42	03/12/2025	11:09	LB135011
	Potassium	-8.24			0	0	03/12/2025	11:09	LB135011
	Selenium	-15.8			-20	20	03/12/2025	11:09	LB135011
	Silver	0.57			-10	10	03/12/2025	11:09	LB135011
	Sodium	41.4			0	0	03/12/2025	11:09	LB135011
	Thallium	7.56			-40	40	03/12/2025	11:09	LB135011
	Vanadium	4.05			-40	40	03/12/2025	11:09	LB135011
	Zinc	6.95			-40	40	03/12/2025	11:09	LB135011
ICSAB01	Aluminum	239000	247000	97	209000	285000	03/12/2025	11:14	LB135011
	Antimony	630	618	102	525	711	03/12/2025	11:14	LB135011
	Arsenic	116	104	112	88.4	120	03/12/2025	11:14	LB135011
	Barium	454	537	84	437	637	03/12/2025	11:14	LB135011
	Beryllium	467	495	94	420	570	03/12/2025	11:14	LB135011
	Cadmium	1000	972	103	826	1120	03/12/2025	11:14	LB135011
	Calcium	220000	235000	94	199000	271000	03/12/2025	11:14	LB135011
	Chromium	595	542	110	460	624	03/12/2025	11:14	LB135011
	Cobalt	511	476	107	404	548	03/12/2025	11:14	LB135011
	Copper	509	511	100	434	588	03/12/2025	11:14	LB135011
	Iron	102000	99300	103	84400	114500	03/12/2025	11:14	LB135011
	Lead	52.3	49.0	107	37	61	03/12/2025	11:14	LB135011
	Magnesium	237000	248000	96	210000	286000	03/12/2025	11:14	LB135011
	Manganese	451	507	89	430	584	03/12/2025	11:14	LB135011
	Nickel	1000	954	105	810	1100	03/12/2025	11:14	LB135011
	Potassium	-44.7			0	0	03/12/2025	11:14	LB135011

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	34.2	46.0	74	26	66	03/12/2025	11:14	LB135011
	Silver	226	201	112	170	232	03/12/2025	11:14	LB135011
	Sodium	43.6			0	0	03/12/2025	11:14	LB135011
	Thallium	108	108	100	68	148	03/12/2025	11:14	LB135011
	Vanadium	457	491	93	417	565	03/12/2025	11:14	LB135011
	Zinc	1080	952	113	809	1095	03/12/2025	11:14	LB135011
ICSA01	Aluminum	256000	255000	100	216000	294000	03/13/2025	12:25	LB135035
	Antimony	-2.75			-50	50	03/13/2025	12:25	LB135035
	Arsenic	4.32			-20	20	03/13/2025	12:25	LB135035
	Barium	4.72	6.0	79	-94	106	03/13/2025	12:25	LB135035
	Beryllium	1.26			-6	6	03/13/2025	12:25	LB135035
	Cadmium	-3.11	1.0	311	-5	7	03/13/2025	12:25	LB135035
	Calcium	242000	245000	99	208000	282000	03/13/2025	12:25	LB135035
	Chromium	60.0	52.0	115	42	62	03/13/2025	12:25	LB135035
	Cobalt	1.59			-30	30	03/13/2025	12:25	LB135035
	Copper	10.4	2.0	519	-18	22	03/13/2025	12:25	LB135035
	Iron	103000	101000	102	85600	116500	03/13/2025	12:25	LB135035
	Lead	4.72			-12	12	03/13/2025	12:25	LB135035
	Magnesium	262000	255000	103	216000	294000	03/13/2025	12:25	LB135035
	Manganese	3.77	7.0	54	-13	27	03/13/2025	12:25	LB135035
	Nickel	1.93	2.0	96	-38	42	03/13/2025	12:25	LB135035
	Potassium	112			0	0	03/13/2025	12:25	LB135035
	Selenium	-15.2			-20	20	03/13/2025	12:25	LB135035
	Silver	-0.88			-10	10	03/13/2025	12:25	LB135035
	Sodium	81.3			0	0	03/13/2025	12:25	LB135035
	Thallium	9.23			-40	40	03/13/2025	12:25	LB135035
	Vanadium	3.49			-40	40	03/13/2025	12:25	LB135035
	Zinc	4.65			-40	40	03/13/2025	12:25	LB135035
ICSAB01	Aluminum	240000	247000	97	209000	285000	03/13/2025	12:30	LB135035
	Antimony	610	618	99	525	711	03/13/2025	12:30	LB135035
	Arsenic	113	104	109	88.4	120	03/13/2025	12:30	LB135035
	Barium	485	537	90	437	637	03/13/2025	12:30	LB135035
	Beryllium	491	495	99	420	570	03/13/2025	12:30	LB135035
	Cadmium	1000	972	103	826	1120	03/13/2025	12:30	LB135035
	Calcium	231000	235000	98	199000	271000	03/13/2025	12:30	LB135035
	Chromium	564	542	104	460	624	03/13/2025	12:30	LB135035
	Cobalt	508	476	107	404	548	03/13/2025	12:30	LB135035
	Copper	504	511	99	434	588	03/13/2025	12:30	LB135035
	Iron	100000	99300	101	84400	114500	03/13/2025	12:30	LB135035
	Lead	54.2	49.0	111	37	61	03/13/2025	12:30	LB135035
	Magnesium	249000	248000	100	210000	286000	03/13/2025	12:30	LB135035
	Manganese	476	507	94	430	584	03/13/2025	12:30	LB135035

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Nickel	1010	954	106	810	1100	03/13/2025	12:30	LB135035
	Potassium	79.0			0	0	03/13/2025	12:30	LB135035
	Selenium	43.0	46.0	94	26	66	03/13/2025	12:30	LB135035
	Silver	218	201	108	170	232	03/13/2025	12:30	LB135035
	Sodium	93.6			0	0	03/13/2025	12:30	LB135035
	Thallium	107	108	99	68	148	03/13/2025	12:30	LB135035
	Vanadium	470	491	96	417	565	03/13/2025	12:30	LB135035
	Zinc	1050	952	110	809	1095	03/13/2025	12:30	LB135035

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Solid **sample id:** Q1482-01 **client id:** OR-03-030425MS

Percent Solids for Sample: 90.8 **Spiked ID:** Q1482-01MS **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7400		6780		97.0	638		P
Antimony	mg/Kg	75 - 125	14.1		2.39	U	38.8	36	N	P
Arsenic	mg/Kg	75 - 125	35.2		2.23		38.8	85		P
Barium	mg/Kg	75 - 125	40.0		28.9		9.7	115		P
Beryllium	mg/Kg	75 - 125	8.56		0.40		9.7	84		P
Cadmium	mg/Kg	75 - 125	8.89		0.29	U	9.7	92		P
Calcium	mg/Kg	75 - 125	1110		807		48.5	630		P
Chromium	mg/Kg	75 - 125	27.2		9.62		19.4	91		P
Cobalt	mg/Kg	75 - 125	14.6		4.92		9.7	100		P
Copper	mg/Kg	75 - 125	25.8		13.3		14.6	86		P
Iron	mg/Kg	75 - 125	11300		12100		150	-519		P
Lead	mg/Kg	75 - 125	57.1		9.00		48.5	99		P
Magnesium	mg/Kg	75 - 125	1920		1710		97.0	222		P
Manganese	mg/Kg	75 - 125	162		144		9.7	183		P
Nickel	mg/Kg	75 - 125	32.8		9.43		24.3	96		P
Potassium	mg/Kg	75 - 125	930		453		490	97		P
Selenium	mg/Kg	75 - 125	76.5		0.42	J	97.0	78		P
Silver	mg/Kg	75 - 125	4.47		1.44		3.6	84		P
Sodium	mg/Kg	75 - 125	531		332		150	133	N	P
Thallium	mg/Kg	75 - 125	87.7		0.50	J	97.0	90		P
Vanadium	mg/Kg	75 - 125	30.2		18.5		14.6	80		P
Zinc	mg/Kg	75 - 125	30.3		20.5		9.7	101		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Solid **sample id:** Q1482-01 **client id:** OR-03-030425MSD

Percent Solids for Sample: 90.8 **Spiked ID:** Q1482-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7320		6780		96.2	562		P
Antimony	mg/Kg	75 - 125	14.2		2.39	U	38.5	37	N	P
Arsenic	mg/Kg	75 - 125	35.7		2.23		38.5	87		P
Barium	mg/Kg	75 - 125	39.3		28.9		9.6	109		P
Beryllium	mg/Kg	75 - 125	8.48		0.40		9.6	84		P
Cadmium	mg/Kg	75 - 125	8.98		0.29	U	9.6	94		P
Calcium	mg/Kg	75 - 125	1100		807		48.1	610		P
Chromium	mg/Kg	75 - 125	26.9		9.62		19.2	90		P
Cobalt	mg/Kg	75 - 125	14.6		4.92		9.6	101		P
Copper	mg/Kg	75 - 125	26.2		13.3		14.4	89		P
Iron	mg/Kg	75 - 125	11100		12100		140	-703		P
Lead	mg/Kg	75 - 125	57.5		9.00		48.1	101		P
Magnesium	mg/Kg	75 - 125	1910		1710		96.2	210		P
Manganese	mg/Kg	75 - 125	160		144		9.6	169		P
Nickel	mg/Kg	75 - 125	32.9		9.43		24.0	98		P
Potassium	mg/Kg	75 - 125	910		453		480	95		P
Selenium	mg/Kg	75 - 125	77.5		0.42	J	96.2	80		P
Silver	mg/Kg	75 - 125	4.38		1.44		3.6	82		P
Sodium	mg/Kg	75 - 125	518		332		140	133	N	P
Thallium	mg/Kg	75 - 125	87.8		0.50	J	96.2	91		P
Vanadium	mg/Kg	75 - 125	30.1		18.5		14.4	80		P
Zinc	mg/Kg	75 - 125	29.9		20.5		9.6	98		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1488-14 **client id:** ENV-104-GW01MS

Percent Solids for Sample: NA **Spiked ID:** Q1488-14MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.90		0.49		4.0	85		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1488-14 **client id:** ENV-104-GW01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1488-14MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.93		0.49		4.0	86		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1494-01 **client id:** PURGE-WATERMS

Percent Solids for Sample: NA **Spiked ID:** Q1494-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1170		217		1000	95		P
Antimony	ug/L	75 - 125	402		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	403		10.0	U	400	101		P
Barium	ug/L	75 - 125	135		39.0	J	100	96		P
Beryllium	ug/L	75 - 125	91.2		3.00	U	100	91		P
Cadmium	ug/L	75 - 125	94.6		3.00	U	100	95		P
Calcium	ug/L	75 - 125	25500		24600		500	177		P
Chromium	ug/L	75 - 125	197		1.05	J	200	98		P
Cobalt	ug/L	75 - 125	98.0		0.75	J	100	97		P
Copper	ug/L	75 - 125	150		10.0	U	150	100		P
Iron	ug/L	75 - 125	6390		4880		1500	101		P
Lead	ug/L	75 - 125	464		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	7710		6670		1000	103		P
Manganese	ug/L	75 - 125	1000		891		100	114		P
Nickel	ug/L	75 - 125	244		4.29	J	250	96		P
Potassium	ug/L	75 - 125	10200		4820		5000	107		P
Selenium	ug/L	75 - 125	939		10.0	U	1000	94		P
Silver	ug/L	75 - 125	15.0		5.00	U	37.5	40	N	P
Sodium	ug/L	75 - 125	46500		43200		1500	220		P
Thallium	ug/L	75 - 125	922		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	146		20.0	U	150	97		P
Zinc	ug/L	75 - 125	103		20.0	U	100	103		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1494-01 **client id:** PURGE-WATERMSD

Percent Solids for Sample: NA **Spiked ID:** Q1494-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1170		217		1000	95		P
Antimony	ug/L	75 - 125	398		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	134		39.0	J	100	95		P
Beryllium	ug/L	75 - 125	91.2		3.00	U	100	91		P
Cadmium	ug/L	75 - 125	94.6		3.00	U	100	95		P
Calcium	ug/L	75 - 125	25400		24600		500	166		P
Chromium	ug/L	75 - 125	198		1.05	J	200	98		P
Cobalt	ug/L	75 - 125	97.9		0.75	J	100	97		P
Copper	ug/L	75 - 125	150		10.0	U	150	100		P
Iron	ug/L	75 - 125	6400		4880		1500	101		P
Lead	ug/L	75 - 125	464		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	7670		6670		1000	100		P
Manganese	ug/L	75 - 125	1000		891		100	112		P
Nickel	ug/L	75 - 125	244		4.29	J	250	96		P
Potassium	ug/L	75 - 125	10200		4820		5000	107		P
Selenium	ug/L	75 - 125	933		10.0	U	1000	93		P
Silver	ug/L	75 - 125	15.1		5.00	U	37.5	40	N	P
Sodium	ug/L	75 - 125	46900		43200		1500	245		P
Thallium	ug/L	75 - 125	941		20.0	U	1000	94		P
Vanadium	ug/L	75 - 125	146		20.0	U	150	97		P
Zinc	ug/L	75 - 125	104		20.0	U	100	104		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Solid **sample id:** Q1494-07 **client id:** SOIL-COMPMS

Percent Solids for Sample: 93.6 **Spiked ID:** Q1494-07MS **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.013	U	0.26	118		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Solid **sample id:** Q1494-07 **client id:** SOIL-COMPMSD

Percent Solids for Sample: 93.6 **Spiked ID:** Q1494-07MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.013	U	0.26	113		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Solid **Level:** LOW **Client ID:** OR-03-030425A

Sample ID: Q1482-01 **Spiked ID:** Q1482-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	14.5		2.39	U	38.3	38		P
Sodium	mg/Kg	75 - 125	528		332		140	140		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Level:** LOW **Client ID:** PURGE-WATERA

Sample ID: Q1494-01 **Spiked ID:** Q1494-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	14.8		5.00	U	37.5	40		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Solid **Sample ID:** Q1482-01 **Client ID:** OR-03-030425DUP

Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01DUP **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6780		7320		8		P
Antimony	mg/Kg	20	2.39	U	2.57	U			P
Arsenic	mg/Kg	20	2.23		2.11		6		P
Barium	mg/Kg	20	28.9		30.8		6		P
Beryllium	mg/Kg	20	0.40		0.44		8		P
Cadmium	mg/Kg	20	0.29	U	0.31	U			P
Calcium	mg/Kg	20	807		867		7		P
Chromium	mg/Kg	20	9.62		10.3		7		P
Cobalt	mg/Kg	20	4.92		5.24		6		P
Copper	mg/Kg	20	13.3		14.3		7		P
Iron	mg/Kg	20	12100		12900		6		P
Lead	mg/Kg	20	9.00		9.71		8		P
Magnesium	mg/Kg	20	1710		1840		7		P
Manganese	mg/Kg	20	144		155		7		P
Nickel	mg/Kg	20	9.43		10.1		7		P
Potassium	mg/Kg	20	453		478		5		P
Selenium	mg/Kg	20	0.42	J	1.03	U	200.0		P
Silver	mg/Kg	20	1.44		1.54		7		P
Sodium	mg/Kg	20	332		350		5		P
Thallium	mg/Kg	20	0.50	J	0.60	J	19		P
Vanadium	mg/Kg	20	18.5		20.0		8		P
Zinc	mg/Kg	20	20.5		22.0		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Solid **Sample ID:** Q1482-01MS **Client ID:** OR-03-030425MSD

Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7400		7320		1		P
Antimony	mg/Kg	20	14.1		14.2		1		P
Arsenic	mg/Kg	20	35.2		35.7		1		P
Barium	mg/Kg	20	40.0		39.3		2		P
Beryllium	mg/Kg	20	8.56		8.48		1		P
Cadmium	mg/Kg	20	8.89		8.98		1		P
Calcium	mg/Kg	20	1110		1100		1		P
Chromium	mg/Kg	20	27.2		26.9		1		P
Cobalt	mg/Kg	20	14.6		14.6		0		P
Copper	mg/Kg	20	25.8		26.2		2		P
Iron	mg/Kg	20	11300		11100		2		P
Lead	mg/Kg	20	57.1		57.5		1		P
Magnesium	mg/Kg	20	1920		1910		1		P
Manganese	mg/Kg	20	162		160		1		P
Nickel	mg/Kg	20	32.8		32.9		0		P
Potassium	mg/Kg	20	930		910		2		P
Selenium	mg/Kg	20	76.5		77.5		1		P
Silver	mg/Kg	20	4.47		4.38		2		P
Sodium	mg/Kg	20	531		518		2		P
Thallium	mg/Kg	20	87.7		87.8		0		P
Vanadium	mg/Kg	20	30.2		30.1		0		P
Zinc	mg/Kg	20	30.3		29.9		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1488-14 **Client ID:** ENV-104-GW01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1488-14DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.49		0.60		21		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1488-14MS **Client ID:** ENV-104-GW01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1488-14MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.90		3.93		1		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1494-01 **Client ID:** PURGE-WATERDUP

Percent Solids for Sample: NA **Duplicate ID** Q1494-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	217		225		4		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	39.0	J	40.1	J	3		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	24600		24600		0		P
Chromium	ug/L	20	1.05	J	0.91	J	15		P
Cobalt	ug/L	20	0.75	J	0.73	J	3		P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	4880		4930		1		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	6670		6670		0		P
Manganese	ug/L	20	891		882		1		P
Nickel	ug/L	20	4.29	J	4.38	J	2		P
Potassium	ug/L	20	4820		4840		0		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	43200		43100		0		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	20.0	U	20.0	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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1494-01MS **Client ID:** PURGE-WATERMSD

Percent Solids for Sample: NA **Duplicate ID** Q1494-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1170		1170		0		P
Antimony	ug/L	20	402		398		1		P
Arsenic	ug/L	20	403		401		0		P
Barium	ug/L	20	135		134		1		P
Beryllium	ug/L	20	91.2		91.2		0		P
Cadmium	ug/L	20	94.6		94.6		0		P
Calcium	ug/L	20	25500		25400		0		P
Chromium	ug/L	20	197		198		1		P
Cobalt	ug/L	20	98.0		97.9		0		P
Copper	ug/L	20	150		150		0		P
Iron	ug/L	20	6390		6400		0		P
Lead	ug/L	20	464		464		0		P
Magnesium	ug/L	20	7710		7670		1		P
Manganese	ug/L	20	1000		1000		0		P
Nickel	ug/L	20	244		244		0		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	939		933		1		P
Silver	ug/L	20	15.0		15.1		1		P
Sodium	ug/L	20	46500		46900		1		P
Thallium	ug/L	20	922		941		2		P
Vanadium	ug/L	20	146		146		0		P
Zinc	ug/L	20	103		104		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Solid **Sample ID:** Q1494-07 **Client ID:** SOIL-COMPDUP

Percent Solids for Sample: 93.6 **Duplicate ID** Q1494-07DUP **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013	U	0.014	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Solid **Sample ID:** Q1494-07MS **Client ID:** SOIL-COMPMSD

Percent Solids for Sample: 93.6 **Duplicate ID** Q1494-07MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.31		0.29		4		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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166977BS							
Aluminum	mg/Kg	99.5	97.4		98	80 - 120	P
Antimony	mg/Kg	39.8	39.3		99	80 - 120	P
Arsenic	mg/Kg	39.8	39.2		98	80 - 120	P
Barium	mg/Kg	10.0	8.73		87	80 - 120	P
Beryllium	mg/Kg	10.0	9.52		95	80 - 120	P
Cadmium	mg/Kg	10.0	9.17		92	80 - 120	P
Calcium	mg/Kg	49.8	48.4	J	97	80 - 120	P
Chromium	mg/Kg	19.9	21.0		106	80 - 120	P
Cobalt	mg/Kg	10.0	9.37		94	80 - 120	P
Copper	mg/Kg	14.9	15.1		101	80 - 120	P
Iron	mg/Kg	150	146		97	80 - 120	P
Lead	mg/Kg	49.8	47.0		94	80 - 120	P
Magnesium	mg/Kg	99.5	93.9	J	94	80 - 120	P
Manganese	mg/Kg	10.0	9.27		93	80 - 120	P
Nickel	mg/Kg	24.9	23.4		94	80 - 120	P
Potassium	mg/Kg	500	467		93	80 - 120	P
Selenium	mg/Kg	99.5	95.1		96	80 - 120	P
Silver	mg/Kg	3.7	3.85		104	80 - 120	P
Sodium	mg/Kg	150	152		101	80 - 120	P
Thallium	mg/Kg	99.5	101		102	80 - 120	P
Vanadium	mg/Kg	14.9	14.3		96	80 - 120	P
Zinc	mg/Kg	10.0	10.4		104	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166987BS							
Mercury	ug/L	4.0	3.95		99	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167002BS							
Aluminum	ug/L	1000	901		90	80 - 120	P
Antimony	ug/L	400	381		95	80 - 120	P
Arsenic	ug/L	400	382		96	80 - 120	P
Barium	ug/L	100	91.2		91	80 - 120	P
Beryllium	ug/L	100	93.1		93	80 - 120	P
Cadmium	ug/L	100	91.0		91	80 - 120	P
Calcium	ug/L	500	442	J	88	80 - 120	P
Chromium	ug/L	200	187		94	80 - 120	P
Cobalt	ug/L	100	92.9		93	80 - 120	P
Copper	ug/L	150	149		99	80 - 120	P
Iron	ug/L	1500	1390		93	80 - 120	P
Lead	ug/L	500	461		92	80 - 120	P
Magnesium	ug/L	1000	904	J	90	80 - 120	P
Manganese	ug/L	100	94.2		94	80 - 120	P
Nickel	ug/L	250	231		92	80 - 120	P
Potassium	ug/L	5000	4520		90	80 - 120	P
Selenium	ug/L	1000	926		93	80 - 120	P
Silver	ug/L	37.5	35.7		95	80 - 120	P
Sodium	ug/L	1500	1350		90	80 - 120	P
Thallium	ug/L	1000	967		97	80 - 120	P
Vanadium	ug/L	150	138		92	80 - 120	P
Zinc	ug/L	100	93.2		93	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167021BS							
Mercury	mg/Kg	0.25	0.25		99	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-03-030425L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134928 **Lab Sample ID :** Q1482-01L **SDG No.:** Q1488

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	6780		7540		11		P
Antimony	2.39	U	12.0	U			P
Arsenic	2.23		2.89	J	30		P
Barium	28.9		31.9		11		P
Beryllium	0.40		0.48	J	21		P
Cadmium	0.29	U	1.44	U			P
Calcium	807		928		15		P
Chromium	9.62		10.8		13		P
Cobalt	4.92		4.82	J	2		P
Copper	13.3		15.6		17		P
Iron	12100		13400		11		P
Lead	9.00		9.93		10		P
Magnesium	1710		1940		14		P
Manganese	144		169		17		P
Nickel	9.43		9.40	J	0		P
Potassium	453		472	J	4		P
Selenium	0.42	J	4.79	U	100.0		P
Silver	1.44		1.55	J	8		P
Sodium	332		358	J	8		P
Thallium	0.50	J	9.58	U	100.0		P
Vanadium	18.5		21.1		14		P
Zinc	20.5		23.2		13		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

ENV-104-GW01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134901 **Lab Sample ID :** Q1488-14L **SDG No.:** Q1488

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.49		1.00	U	100.0		CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

PURGE-WATERL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134987 **Lab Sample ID :** Q1494-01L **SDG No.:** Q1488

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	217		286		31		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	39.0	J	37.2	J	5		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	24600		25100		2		P
Chromium	1.05	J	25.0	U	100.0		P
Cobalt	0.75	J	75.0	U	100.0		P
Copper	10.0	U	50.0	U			P
Iron	4880		4830		1		P
Lead	6.00	U	30.0	U			P
Magnesium	6670		6870		3		P
Manganese	891		923		4		P
Nickel	4.29	J	100	U	100.0		P
Potassium	4820		4450	J	8		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	43200		41900		3		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	20.0	U	100	U			P

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ICP SERIAL DILUTIONS

SAMPLE NO.

SOIL-COMPL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134917 **Lab Sample ID :** Q1494-07L **SDG No.:** Q1488

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	0.013	U	0.067	U			CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134901

Start date: 03/05/2025 **End date:** 03/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1138	HG
S0.2	S0.2	1	1140	HG
S2.5	S2.5	1	1143	HG
S5	S5	1	1145	HG
S7.5	S7.5	1	1147	HG
S10	S10	1	1152	HG
ICV31	ICV31	1	1155	HG
ICB31	ICB31	1	1157	HG
CCV62	CCV62	1	1200	HG
CCB62	CCB62	1	1202	HG
CRA	CRA	1	1207	HG
PB166987BL	PB166987BL	1	1216	HG
PB166987BS	PB166987BS	1	1218	HG
Q1488-14	ENV-104-GW01	1	1228	HG
Q1488-14DUP	ENV-104-GW01DUP	1	1230	HG
CCV63	CCV63	1	1232	HG
CCB63	CCB63	1	1235	HG
Q1488-14MS	ENV-104-GW01MS	1	1237	HG
Q1488-14MSD	ENV-104-GW01MSD	1	1239	HG
Q1488-14L	ENV-104-GW01L	5	1242	HG
Q1488-13	ENV-102-GW01	5	1246	HG
CCV64	CCV64	1	1248	HG
CCB64	CCB64	1	1251	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134917

Start date: 03/06/2025 **End date:** 03/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1110	HG
S0.2	S0.2	1	1113	HG
S2.5	S2.5	1	1115	HG
S5	S5	1	1117	HG
S7.5	S7.5	1	1119	HG
S10	S10	1	1125	HG
ICV33	ICV33	1	1127	HG
ICB33	ICB33	1	1133	HG
CCV69	CCV69	1	1135	HG
CCB69	CCB69	1	1140	HG
CRA	CRA	1	1142	HG
PB167021BL	PB167021BL	1	1152	HG
PB167021BS	PB167021BS	1	1154	HG
Q1488-01	ENV-101-SB01	1	1156	HG
Q1488-03	ENV-101-SB02	1	1158	HG
Q1488-05	ENV-102-SB01	1	1201	HG
Q1488-07	ENV-102-SB02	1	1203	HG
Q1488-09	ENV-104-SB01	1	1205	HG
CCV70	CCV70	1	1208	HG
CCB70	CCB70	1	1210	HG
Q1488-11	ENV-104-SB02	1	1212	HG
Q1494-07DUP	SOIL-COMPDUP	1	1224	HG
Q1494-07MS	SOIL-COMPMS	1	1226	HG
Q1494-07MSD	SOIL-COMPMSD	1	1228	HG
Q1494-07L	SOIL-COMPL	5	1230	HG
CCV71	CCV71	1	1235	HG
CCB71	CCB71	1	1240	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134928

Start date: 03/06/2025 **End date:** 03/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1024	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1032	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1050	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1138	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	1143	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	1147	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	1151	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	1204	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	1219	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	1223	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	1310	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	1314	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	1400	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	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1482-01DUP	OR-03-030425DUP	1	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1482-01L	OR-03-030425L	5	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1482-01MS	OR-03-030425MS	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1482-01MSD	OR-03-030425MSD	1	1438	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1482-01A	OR-03-030425A	1	1442	Na,Sb
CCV04	CCV04	1	1450	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	1454	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	1553	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	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1024	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1032	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1050	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1054	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1058	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1102	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1106	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1310	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1494-01DUP	PURGE-WATERDUP	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1494-01L	PURGE-WATERL	5	1331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1494-01MS	PURGE-WATERMS	1	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1494-01MSD	PURGE-WATERMSD	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1494-01A	PURGE-WATERA	1	1343	Ag
PB167002BL	PB167002BL	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167002BS	PB167002BS	1	1400	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1408	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1413	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1554	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1642	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	1646	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	1734	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	1738	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	1826	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	1830	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	1914	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	1918	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	1926	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	1931	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV12	CCV12	1	1939	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	1949	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB135011

Start date: 03/12/2025 **End date:** 03/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1027	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	1031	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	1035	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	1039	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	1044	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	1048	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	1052	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	1056	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	1101	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	1105	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	1109	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	1114	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1220	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	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166977BL	PB166977BL	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166977BS	PB166977BS	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1310	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1424	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	1428	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	1525	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	1529	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	1625	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	1630	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	1725	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	1730	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	1823	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	1827	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	1849	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	1853	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	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	1146	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	1150	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	1154	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	1159	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	1203	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	1207	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	1213	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	1217	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	1221	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	1225	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	1230	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	1253	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	1258	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	1349	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	1354	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-14	ENV-104-GW01	1	1407	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-01	ENV-101-SB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-03	ENV-101-SB02	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-05	ENV-102-SB01	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-07	ENV-102-SB02	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-09	ENV-104-SB01	1	1427	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-11	ENV-104-SB02	1	1431	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	1440	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	1448	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	1538	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	1542	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	1628	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	1632	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	1721	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	1725	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-13	ENV-102-GW01	10	1804	Ag
CCV07	CCV07	1	1812	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	1835	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1488-13	ENV-102-GW01	1	1839	Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1853	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	1903	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	1912	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	1921	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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			Mercury	7471B		03/05/25	03/06/25	
			Metals ICP-TAL	6010D		03/05/25	03/13/25	
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/11/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			Mercury	7471B		03/05/25	03/06/25	
			Metals ICP-TAL	6010D		03/05/25	03/13/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25**			**03/04/25**
			Mercury	7471B		03/05/25	03/06/25	
			Metals ICP-TAL	6010D		03/05/25	03/13/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25**			**03/04/25**
			Mercury	7471B		03/05/25	03/06/25	
			Metals ICP-TAL	6010D		03/05/25	03/13/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25**			**03/04/25**

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LAB CHRONICLE

			Mercury	7471B		03/05/25	03/06/25
			Metals ICP-TAL	6010D		03/05/25	03/13/25
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**		**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25
			TCLP Mercury	7470A		03/07/25	03/10/25
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25**		**03/04/25**
			Mercury	7471B		03/05/25	03/06/25
			Metals ICP-TAL	6010D		03/05/25	03/13/25
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**		**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25
			TCLP Mercury	7470A		03/07/25	03/10/25
Q1488-13	**ENV-102-GW01**	**Water**			**03/04/25**		**03/04/25**
			Mercury	7470A		03/05/25	03/05/25
			Metals ICP-TAL	6010D		03/06/25	03/13/25
Q1488-14	**ENV-104-GW01**	**Water**			**03/04/25**		**03/04/25**
			Mercury	7470A		03/05/25	03/05/25
			Metals ICP-TAL	6010D		03/06/25	03/13/25

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166977**						
PB166977BL	PB166977BL	MB	SOLID	03/05/2025	2.04	100.0	100.00
PB166977BS	PB166977BS	LCS	SOLID	03/05/2025	2.01	100.0	100.00
Q1482-01DUP	OR-03-030425DUP	DUP	SOLID	03/05/2025	2.14	100.0	90.80
Q1482-01MS	OR-03-030425MS	MS	SOLID	03/05/2025	2.27	100.0	90.80
Q1482-01MSD	OR-03-030425MSD	MSD	SOLID	03/05/2025	2.29	100.0	90.80
Q1488-01	ENV-101-SB01	SAM	SOLID	03/05/2025	2.23	100.0	88.50
Q1488-03	ENV-101-SB02	SAM	SOLID	03/05/2025	2.15	100.0	90.60
Q1488-05	ENV-102-SB01	SAM	SOLID	03/05/2025	2.17	100.0	85.70
Q1488-07	ENV-102-SB02	SAM	SOLID	03/05/2025	2.20	100.0	80.10
Q1488-09	ENV-104-SB01	SAM	SOLID	03/05/2025	2.47	100.0	82.60
Q1488-11	ENV-104-SB02	SAM	SOLID	03/05/2025	2.27	100.0	81.10

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166987**						
PB166987BL	PB166987BL	MB	WATER	03/05/2025	30.0	30.0	
PB166987BS	PB166987BS	LCS	WATER	03/05/2025	30.0	30.0	
Q1488-13	ENV-102-GW01	SAM	WATER	03/05/2025	30.0	30.0	
Q1488-14	ENV-104-GW01	SAM	WATER	03/05/2025	30.0	30.0	
Q1488-14DUP	ENV-104-GW01DUP	DUP	WATER	03/05/2025	30.0	30.0	
Q1488-14MS	ENV-104-GW01MS	MS	WATER	03/05/2025	30.0	30.0	
Q1488-14MSD	ENV-104-GW01MSD	MSD	WATER	03/05/2025	30.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167002**						
PB167002BL	PB167002BL	MB	WATER	03/06/2025	50.0	25.0	
PB167002BS	PB167002BS	LCS	WATER	03/06/2025	50.0	25.0	
Q1488-13	ENV-102-GW01	SAM	WATER	03/06/2025	50.0	25.0	
Q1488-14	ENV-104-GW01	SAM	WATER	03/06/2025	50.0	25.0	
Q1494-01DUP	PURGE-WATERDUP	DUP	WATER	03/06/2025	50.0	25.0	
Q1494-01MS	PURGE-WATERMS	MS	WATER	03/06/2025	50.0	25.0	
Q1494-01MSD	PURGE-WATERMSD	MSD	WATER	03/06/2025	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167021**						
PB167021BL	PB167021BL	MB	SOLID	03/05/2025	0.52	35.0	100.00
PB167021BS	PB167021BS	LCS	SOLID	03/05/2025	0.57	35.0	100.00
Q1488-01	ENV-101-SB01	SAM	SOLID	03/05/2025	0.53	35.0	88.50
Q1488-03	ENV-101-SB02	SAM	SOLID	03/05/2025	0.54	35.0	90.60
Q1488-05	ENV-102-SB01	SAM	SOLID	03/05/2025	0.57	35.0	85.70
Q1488-07	ENV-102-SB02	SAM	SOLID	03/05/2025	0.55	35.0	80.10
Q1488-09	ENV-104-SB01	SAM	SOLID	03/05/2025	0.54	35.0	82.60
Q1488-11	ENV-104-SB02	SAM	SOLID	03/05/2025	0.55	35.0	81.10
Q1494-07DUP	SOIL-COMPDUP	DUP	SOLID	03/05/2025	0.54	35.0	93.60
Q1494-07MS	SOIL-COMPMS	MS	SOLID	03/05/2025	0.57	35.0	93.60
Q1494-07MSD	SOIL-COMPMSD	MSD	SOLID	03/05/2025	0.58	35.0	93.60

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134901

Review By	Mohan	Review On	3/6/2025 12:21:36 PM
Supervise By	kareem	Supervise On	3/6/2025 3:11:21 PM

STD. NAME	STD REF.#
ICAL Standard	MP84760,MP84761,MP84762,MP84763,MP84764,MP84765
ICV Standard	MP84766
CCV Standard	MP84768
ICSA Standard	
CRI Standard	MP84770
LCS Standard	
Chk Standard	MP84767,MP84769,MP84771,MP84773

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/05/25 11:38		Mohan	OK
2	S0.2	S0.2	CAL2	03/05/25 11:40		Mohan	OK
3	S2.5	S2.5	CAL3	03/05/25 11:43		Mohan	OK
4	S5	S5	CAL4	03/05/25 11:45		Mohan	OK
5	S7.5	S7.5	CAL5	03/05/25 11:47		Mohan	OK
6	S10	S10	CAL6	03/05/25 11:52		Mohan	OK
7	ICV31	ICV31	ICV	03/05/25 11:55		Mohan	OK
8	ICB31	ICB31	ICB	03/05/25 11:57		Mohan	OK
9	CCV62	CCV62	CCV	03/05/25 12:00		Mohan	OK
10	CCB62	CCB62	CCB	03/05/25 12:02		Mohan	OK
11	CRA	CRA	CRDL	03/05/25 12:07		Mohan	OK
12	HighStd	HighStd	HIGH STD	03/05/25 12:09		Mohan	OK
13	ChkStd	ChkStd	SAM	03/05/25 12:11		Mohan	OK
14	PB166987BL	PB166987BL	MB	03/05/25 12:16		Mohan	OK
15	PB166987BS	PB166987BS	LCS	03/05/25 12:18		Mohan	OK
16	Q1476-01	TRE-25-0014	SAM	03/05/25 12:21		Mohan	OK
17	Q1480-33	TP-3-WATER-SAMPL	SAM	03/05/25 12:23		Mohan	OK
18	Q1488-13	ENV-102-GW01	SAM	03/05/25 12:25	High	Mohan	Dilution

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134901

Review By	Mohan	Review On	3/6/2025 12:21:36 PM
Supervise By	kareem	Supervise On	3/6/2025 3:11:21 PM

STD. NAME	STD REF.#
ICAL Standard	MP84760,MP84761,MP84762,MP84763,MP84764,MP84765
ICV Standard	MP84766
CCV Standard	MP84768
ICSA Standard	
CRI Standard	MP84770
LCS Standard	
Chk Standard	MP84767,MP84769,MP84771,MP84773

19	Q1488-14	ENV-104-GW01	SAM	03/05/25 12:28		Mohan	OK
20	Q1488-14DUP	ENV-104-GW01DUP	DUP	03/05/25 12:30		Mohan	OK
21	CCV63	CCV63	CCV	03/05/25 12:32		Mohan	OK
22	CCB63	CCB63	CCB	03/05/25 12:35		Mohan	OK
23	Q1488-14MS	ENV-104-GW01MS	MS	03/05/25 12:37		Mohan	OK
24	Q1488-14MSD	ENV-104-GW01MSD	MSD	03/05/25 12:39		Mohan	OK
25	Q1488-14L	ENV-104-GW01L	SD	03/05/25 12:42		Mohan	OK
26	Q1488-14A	ENV-104-GW01A	PS	03/05/25 12:44		Mohan	OK
27	Q1488-13DL	ENV-102-GW01DL	SAM	03/05/25 12:46	Report 5X	Mohan	Confirms
28	CCV64	CCV64	CCV	03/05/25 12:48		Mohan	OK
29	CCB64	CCB64	CCB	03/05/25 12:51		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134917

Review By	Mohan	Review On	3/7/2025 9:11:27 AM
Supervise By	jaswal	Supervise On	3/7/2025 9:06:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP84777,MP84778,MP84779,MP84780,MP84781,MP84782
ICV Standard	MP84783
CCV Standard	MP84785
ICSA Standard	
CRI Standard	MP84787
LCS Standard	
Chk Standard	MP84784,MP84786,MP84788,MP84790

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/06/25 11:10		Mohan	OK
2	S0.2	S0.2	CAL2	03/06/25 11:13		Mohan	OK
3	S2.5	S2.5	CAL3	03/06/25 11:15		Mohan	OK
4	S5	S5	CAL4	03/06/25 11:17		Mohan	OK
5	S7.5	S7.5	CAL5	03/06/25 11:19		Mohan	OK
6	S10	S10	CAL6	03/06/25 11:25		Mohan	OK
7	ICV33	ICV33	ICV	03/06/25 11:27		Mohan	OK
8	ICB33	ICB33	ICB	03/06/25 11:33		Mohan	OK
9	CCV69	CCV69	CCV	03/06/25 11:35		Mohan	OK
10	CCB69	CCB69	CCB	03/06/25 11:40		Mohan	OK
11	CRA	CRA	CRDL	03/06/25 11:42		Mohan	OK
12	HighStd	HighStd	HIGH STD	03/06/25 11:44		Mohan	OK
13	ChkStd	ChkStd	SAM	03/06/25 11:47		Mohan	OK
14	PB167021BL	PB167021BL	MB	03/06/25 11:52		Mohan	OK
15	PB167021BS	PB167021BS	LCS	03/06/25 11:54		Mohan	OK
16	Q1488-01	ENV-101-SB01	SAM	03/06/25 11:56		Mohan	OK
17	Q1488-03	ENV-101-SB02	SAM	03/06/25 11:58		Mohan	OK
18	Q1488-05	ENV-102-SB01	SAM	03/06/25 12:01		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134917

Review By	Mohan	Review On	3/7/2025 9:11:27 AM
Supervise By	jaswal	Supervise On	3/7/2025 9:06:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP84777,MP84778,MP84779,MP84780,MP84781,MP84782
ICV Standard	MP84783
CCV Standard	MP84785
ICSA Standard	
CRI Standard	MP84787
LCS Standard	
Chk Standard	MP84784,MP84786,MP84788,MP84790

19	Q1488-07	ENV-102-SB02	SAM	03/06/25 12:03		Mohan	OK
20	Q1488-09	ENV-104-SB01	SAM	03/06/25 12:05		Mohan	OK
21	CCV70	CCV70	CCV	03/06/25 12:08		Mohan	OK
22	CCB70	CCB70	CCB	03/06/25 12:10		Mohan	OK
23	Q1488-11	ENV-104-SB02	SAM	03/06/25 12:12		Mohan	OK
24	Q1490-01	CLAY-SLUDGE-DRUI	SAM	03/06/25 12:14		Mohan	OK
25	Q1494-03	ASPHALT-SOIL	SAM	03/06/25 12:17		Mohan	OK
26	Q1494-05	SOIL	SAM	03/06/25 12:19		Mohan	OK
27	Q1494-07	SOIL-COMP	SAM	03/06/25 12:21		Mohan	OK
28	Q1494-07DUP	SOIL-COMPDUP	DUP	03/06/25 12:24		Mohan	OK
29	Q1494-07MS	SOIL-COMPMS	MS	03/06/25 12:26		Mohan	OK
30	Q1494-07MSD	SOIL-COMPMSD	MSD	03/06/25 12:28		Mohan	OK
31	Q1494-07L	SOIL-COMPL	SD	03/06/25 12:30		Mohan	OK
32	Q1494-07A	SOIL-COMPA	PS	03/06/25 12:33		Mohan	OK
33	CCV71	CCV71	CCV	03/06/25 12:35		Mohan	OK
34	CCB71	CCB71	CCB	03/06/25 12:40		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134928

Review By	kareem	Review On	3/7/2025 12:31:36 PM
Supervise By	Janvi	Supervise On	3/12/2025 10:18:22 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/06/25 10:19		Kareem	OK
2	S1	S1	CAL2	03/06/25 10:24		Kareem	OK
3	S2	S2	CAL3	03/06/25 10:28		Kareem	OK
4	S3	S3	CAL4	03/06/25 10:32		Kareem	OK
5	S4	S4	CAL5	03/06/25 10:37		Kareem	OK
6	S5	S5	CAL6	03/06/25 10:41		Kareem	OK
7	ICV01	ICV01	ICV	03/06/25 10:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/06/25 11:38		Kareem	OK
9	ICB01	ICB01	ICB	03/06/25 11:43		Kareem	OK
10	CRI01	CRI01	CRDL	03/06/25 11:47		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/06/25 11:51		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/06/25 12:04		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/06/25 12:10		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/06/25 12:14		Kareem	OK
15	CCV01	CCV01	CCV	03/06/25 12:19		Kareem	OK
16	CCB01	CCB01	CCB	03/06/25 12:23		Kareem	OK
17	Q1464-01	COMP-1	SAM	03/06/25 12:27		Kareem	OK
18	Q1464-02	COMP-2	SAM	03/06/25 12:32		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134928

Review By	kareem	Review On	3/7/2025 12:31:36 PM
Supervise By	Janvi	Supervise On	3/12/2025 10:18:22 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1465-01	ST-OILY-DEBRIS	SAM	03/06/25 12:36		Kareem	OK
20	Q1480-33	TP-3-WATER-SAMPL	SAM	03/06/25 12:40		Kareem	OK
21	Q1489-01	TP-1	SAM	03/06/25 12:45		Kareem	OK
22	Q1489-05	TP-2	SAM	03/06/25 12:49		Kareem	OK
23	Q1489-09	TP-3	SAM	03/06/25 12:53		Kareem	OK
24	Q1489-13	TP-4	SAM	03/06/25 12:57		Kareem	OK
25	Q1465-01DUP	ST-OILY-DEBRISDUP	DUP	03/06/25 13:01		Kareem	OK
26	Q1465-01L	ST-OILY-DEBRISL	SD	03/06/25 13:05		Kareem	OK
27	CCV02	CCV02	CCV	03/06/25 13:10		Kareem	OK
28	CCB02	CCB02	CCB	03/06/25 13:14		Kareem	OK
29	Q1465-01MS	ST-OILY-DEBRISMS	MS	03/06/25 13:18	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
30	Q1465-01MSD	ST-OILY-DEBRISMSD	MSD	03/06/25 13:22	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
31	Q1465-01A	ST-OILY-DEBRISA	PS	03/06/25 13:27	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
32	PB166947BL-RE	PB166947BL-RE	MB	03/06/25 13:31	Not Use	Kareem	Not Ok
33	PB166947BS	PB166947BS	LCS	03/06/25 13:35	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
34	Q1410-01	KITCHEN-TAP	SAM	03/06/25 13:39		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134928

Review By	kareem	Review On	3/7/2025 12:31:36 PM
Supervise By	Janvi	Supervise On	3/12/2025 10:18:22 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

35	Q1410-01DUP	KITCHEN-TAPDUP	DUP	03/06/25 13:43		Kareem	OK
36	Q1410-01L	KITCHEN-TAPL	SD	03/06/25 13:48		Kareem	OK
37	Q1410-01MS	KITCHEN-TAPMS	MS	03/06/25 13:52	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
38	Q1410-01MSD	KITCHEN-TAPMSD	MSD	03/06/25 13:56	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
39	CCV03	CCV03	CCV	03/06/25 14:00		Kareem	OK
40	CCB03	CCB03	CCB	03/06/25 14:05		Kareem	OK
41	Q1410-01A	KITCHEN-TAPA	PS	03/06/25 14:09	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
42	PB166847BL	PB166847BL	MB	03/06/25 14:13	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
43	PB166847BS	PB166847BS	LCS	03/06/25 14:17	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
44	Q1482-01	OR-03-030425	SAM	03/06/25 14:22		Kareem	OK
45	Q1482-01DUP	OR-03-030425DUP	DUP	03/06/25 14:26		Kareem	OK
46	Q1482-01L	OR-03-030425L	SD	03/06/25 14:30		Kareem	OK
47	Q1482-01MS	OR-03-030425MS	MS	03/06/25 14:34	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	Q1482-01MSD	OR-03-030425MSD	MSD	03/06/25 14:38	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134928

Review By	kareem	Review On	3/7/2025 12:31:36 PM
Supervise By	Janvi	Supervise On	3/12/2025 10:18:22 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

49	Q1482-01A	OR-03-030425A	PS	03/06/25 14:42	0.1 ML M6003 M6011 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
50	Q1484-01	TR-OTR-COMP-01	SAM	03/06/25 14:46		Kareem	OK
51	CCV04	CCV04	CCV	03/06/25 14:50		Kareem	OK
52	CCB04	CCB04	CCB	03/06/25 14:54		Kareem	OK
53	LR1	LR1	HIGH STD	03/06/25 15:04		Kareem	OK
54	PB166947BL	PB166947BL	MB	03/06/25 15:09		Kareem	OK
55	Q1484-06	TR-OTR-COMP-01	SAM	03/06/25 15:13		Kareem	OK
56	Q1480-08	TP-1	SAM	03/06/25 15:17	Need to confirm (Ba)	Kareem	OK
57	Q1480-16	TP-2	SAM	03/06/25 15:27	Need to confirm (Ba)	Kareem	OK
58	Q1480-24	TP-3	SAM	03/06/25 15:31	Need to confirm (Ba,Zn)	Kareem	OK
59	Q1480-32	TP-4	SAM	03/06/25 15:35	Need to confirm (Ba,Zn)	Kareem	OK
60	LR2	LR2	HIGH STD	03/06/25 15:49		Kareem	OK
61	CCV05	CCV05	CCV	03/06/25 15:53		Kareem	OK
62	CCB05	CCB05	CCB	03/06/25 15:57		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/11/25 10:19		Kareem	OK
2	S1	S1	CAL2	03/11/25 10:24		Kareem	OK
3	S2	S2	CAL3	03/11/25 10:28		Kareem	OK
4	S3	S3	CAL4	03/11/25 10:32		Kareem	OK
5	S4	S4	CAL5	03/11/25 10:36		Kareem	OK
6	S5	S5	CAL6	03/11/25 10:41		Kareem	OK
7	ICV01	ICV01	ICV	03/11/25 10:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/11/25 10:54		Kareem	OK
9	ICB01	ICB01	ICB	03/11/25 10:58		Kareem	OK
10	CRI01	CRI01	CRDL	03/11/25 11:02		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/11/25 11:06		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/11/25 11:11		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/11/25 11:15		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/11/25 11:19		Kareem	OK
15	CCV01	CCV01	CCV	03/11/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/11/25 11:34		Kareem	OK
17	Q1421-04	P001-CLAY-CF01-01	SAM	03/11/25 11:38		Kareem	OK
18	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/11/25 11:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1421-04L	P001-CLAY-CF01-01L	SD	03/11/25 11:46		Kareem	OK
20	Q1421-05	P001-CLAY-CF01-01M	MS	03/11/25 11:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	Q1421-06	P001-CLAY-CF01-01M	MSD	03/11/25 11:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
22	Q1421-04A	P001-CLAY-CF01-01A	PS	03/11/25 11:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	Q1490-01	MS	SAM	03/11/25 12:02		Kareem	OK
24	Q1490-02	MS	SAM	03/11/25 12:07		Kareem	OK
25	Q1494-03	ASPHALT-SOIL	SAM	03/11/25 12:11		Kareem	OK
26	Q1494-05	SOIL	SAM	03/11/25 12:15		Kareem	OK
27	CCV02	CCV02	CCV	03/11/25 12:19		Kareem	OK
28	CCB02	CCB02	CCB	03/11/25 12:23		Kareem	OK
29	Q1494-07	SOIL-COMP	SAM	03/11/25 12:28		Kareem	OK
30	Q1494-07DUP	SOIL-COMPDUP	DUP	03/11/25 12:32		Kareem	OK
31	Q1494-07L	SOIL-COMPL	SD	03/11/25 12:36		Kareem	OK
32	Q1494-07MS	SOIL-COMPMS	MS	03/11/25 12:40	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
33	Q1494-07MSD	SOIL-COMPMSD	MSD	03/11/25 12:44	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

34	Q1494-07ARE	SOIL-COMPA	PS	03/11/25 12:48	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
35	Q1494-04	ASPHALT-SOIL	SAM	03/11/25 12:52		Kareem	OK
36	Q1494-06	SOIL	SAM	03/11/25 12:57		Kareem	OK
37	Q1494-08	SOIL-COMP	SAM	03/11/25 13:01		Kareem	OK
38	PB167004BL	PB167004BL	MB	03/11/25 13:05		Kareem	OK
39	CCV03	CCV03	CCV	03/11/25 13:10		Kareem	OK
40	CCB03	CCB03	CCB	03/11/25 13:14		Kareem	OK
41	PB167004BS	PB167004BS	LCS	03/11/25 13:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
42	Q1494-01	PURGE-WATER	SAM	03/11/25 13:22		Kareem	OK
43	Q1494-01DUP	PURGE-WATERDUP	DUP	03/11/25 13:26		Kareem	OK
44	Q1494-01L	PURGE-WATERL	SD	03/11/25 13:31		Kareem	OK
45	Q1494-01MS	PURGE-WATERMS	MS	03/11/25 13:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	Q1494-01MSD	PURGE-WATERMSD	MSD	03/11/25 13:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
47	Q1494-01A	PURGE-WATERA	PS	03/11/25 13:43	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	PB167002BL	PB167002BL	MB	03/11/25 13:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

49	PB167002BS	PB167002BS	LCS	03/11/25 14:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
50	Q1499-01	402	SAM	03/11/25 14:04		Kareem	OK
51	CCV04	CCV04	CCV	03/11/25 14:08		Kareem	OK
52	CCB04	CCB04	CCB	03/11/25 14:13		Kareem	OK
53	Q1499-01DUP	402DUP	DUP	03/11/25 14:17		Kareem	OK
54	Q1499-01L	402L	SD	03/11/25 14:21		Kareem	OK
55	Q1499-01MS	402MS	MS	03/11/25 14:26	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	Q1499-01MSD	402MSD	MSD	03/11/25 14:30	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
57	Q1499-01A	402A	PS	03/11/25 14:34	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
58	Q1488-02	ENV-101-SB01	SAM	03/11/25 14:38		Kareem	OK
59	Q1415-06	B-173-GW01	SAM	03/11/25 14:43		Kareem	OK
60	Q1415-06DUP	B-173-GW01DUP	DUP	03/11/25 14:47		Kareem	OK
61	Q1415-06L	B-173-GW01L	SD	03/11/25 14:52		Kareem	OK
62	Q1415-06MS	B-173-GW01MS	MS	03/11/25 14:56	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	CCV05	CCV05	CCV	03/11/25 15:00		Kareem	OK
64	CCB05	CCB05	CCB	03/11/25 15:04		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

65	Q1415-06MSD	B-173-GW01MSD	MSD	03/11/25 15:09	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
66	Q1415-06A	B-173-GW01A	PS	03/11/25 15:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	Q1534-01	OR-636-COMP-16	SAM	03/11/25 15:17		Kareem	OK
68	Q1534-07	OR-636-COMP-17	SAM	03/11/25 15:21		Kareem	OK
69	Q1534-13	OR-636-COMP-18	SAM	03/11/25 15:25		Kareem	OK
70	Q1534-19	OR-636-COMP-19	SAM	03/11/25 15:29		Kareem	OK
71	Q1535-01	SU-03-03102025	SAM	03/11/25 15:33		Kareem	OK
72	Q1535-01DUP	SU-03-03102025DUP	DUP	03/11/25 15:37		Kareem	OK
73	Q1535-01L	SU-03-03102025L	SD	03/11/25 15:41		Kareem	OK
74	Q1535-01MS	SU-03-03102025MS	MS	03/11/25 15:46	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	CCV06	CCV06	CCV	03/11/25 15:50		Kareem	OK
76	CCB06	CCB06	CCB	03/11/25 15:54		Kareem	OK
77	Q1535-01MSD	SU-03-03102025MSD	MSD	03/11/25 16:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
78	Q1537-01	COMP-1	SAM	03/11/25 16:08		Kareem	OK
79	Q1537-02	COMP-2	SAM	03/11/25 16:12		Kareem	OK
80	Q1537-03	COMP-3	SAM	03/11/25 16:17		Kareem	OK

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

81	PB167081BL	PB167081BL	MB	03/11/25 16:21		Kareem	OK
82	PB167081BS	PB167081BS	LCS	03/11/25 16:25	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
83	Q1541-01	205703	SAM	03/11/25 16:29		Kareem	OK
84	Q1541-01DUP	205703DUP	DUP	03/11/25 16:34		Kareem	OK
85	Q1541-01L	205703L	SD	03/11/25 16:38		Kareem	OK
86	CCV07	CCV07	CCV	03/11/25 16:42		Kareem	OK
87	CCB07	CCB07	CCB	03/11/25 16:46		Kareem	OK
88	Q1541-01MS	205703MS	MS	03/11/25 16:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1541-01MSD	205703MSD	MSD	03/11/25 16:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1541-01A	205703A	PS	03/11/25 16:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
91	PB167084BL	PB167084BL	MB	03/11/25 17:03		Kareem	OK
92	PB167084BS	PB167084BS	LCS	03/11/25 17:07	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	PB167049TB	PB167049TB	MB	03/11/25 17:12		Kareem	OK
94	Q1523-03	WC-A1-01-C	SAM	03/11/25 17:16		Kareem	OK
95	Q1523-06	WC-A2-02-C	SAM	03/11/25 17:20		Kareem	OK
96	Q1534-06	OR-636-COMP-16	SAM	03/11/25 17:25		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

97	Q1534-12	OR-636-COMP-17	SAM	03/11/25 17:29		Kareem	OK
98	CCV08	CCV08	CCV	03/11/25 17:34		Kareem	OK
99	CCB08	CCB08	CCB	03/11/25 17:38		Kareem	OK
100	Q1534-18	OR-636-COMP-18	SAM	03/11/25 17:42		Kareem	OK
101	Q1534-24	OR-636-COMP-19	SAM	03/11/25 17:47		Kareem	OK
102	Q1537-05	COMP-1	SAM	03/11/25 17:51		Kareem	OK
103	Q1537-06	COMP-2	SAM	03/11/25 17:55		Kareem	OK
104	Q1537-07	COMP-3	SAM	03/11/25 18:00		Kareem	OK
105	Q1537-07DUP	COMP-3DUP	DUP	03/11/25 18:04		Kareem	OK
106	Q1537-07L	COMP-3L	SD	03/11/25 18:09		Kareem	OK
107	Q1537-07MS	COMP-3MS	MS	03/11/25 18:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
108	Q1537-07MSD	COMP-3MSD	MSD	03/11/25 18:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
109	Q1537-07A	COMP-3A	PS	03/11/25 18:22	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
110	CCV09	CCV09	CCV	03/11/25 18:26		Kareem	OK
111	CCB09	CCB09	CCB	03/11/25 18:30		Kareem	OK
112	Q1535-01A	SU-03-03102025A	PS	03/11/25 18:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

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ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

113	Q1494-07A	SOIL-COMPA	PS	03/11/25 18:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
114	PB167092BL	PB167092BL	MB	03/11/25 18:43		Kareem	OK
115	PB167092BS	PB167092BS	LCS	03/11/25 18:47	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
116	P3652-03	P3652-01 - LIVONIA-S	SAM	03/11/25 18:51	NOT USE	Kareem	Not Ok
117	PB167020TB	PB167020TB	MB	03/11/25 18:55		Kareem	OK
118	LR1	LR1	HIGH STD	03/11/25 18:59		Kareem	OK
119	LR2	LR2	HIGH STD	03/11/25 19:04		Kareem	OK
120	CCV10	CCV10	CCV	03/11/25 19:14		Kareem	OK
121	CCB10	CCB10	CCB	03/11/25 19:18		Kareem	OK
122	Q1538-01L	BELL-25-0004L	SD	03/11/25 19:22	Method 6020B Sample in login	Kareem	Not Ok
123	CCV11	CCV11	CCV	03/11/25 19:26		Kareem	OK
124	CCB11	CCB11	CCB	03/11/25 19:31		Kareem	OK
125	Q1538-01	BELL-25-0004	SAM	03/11/25 19:35	Method 6020B Sample in login	Kareem	Not Ok
126	CCV12	CCV12	CCV	03/11/25 19:39		Kareem	OK
127	CCB12	CCB12	CCB	03/11/25 19:49		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/12/25 10:27		Kareem	OK
2	S1	S1	CAL2	03/12/25 10:31		Kareem	OK
3	S2	S2	CAL3	03/12/25 10:35		Kareem	OK
4	S3	S3	CAL4	03/12/25 10:39		Kareem	OK
5	S4	S4	CAL5	03/12/25 10:44		Kareem	OK
6	S5	S5	CAL6	03/12/25 10:48		Kareem	OK
7	ICV01	ICV01	ICV	03/12/25 10:52	ICV As,Be,Tl,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	03/12/25 10:56		Kareem	OK
9	ICB01	ICB01	ICB	03/12/25 11:01		Kareem	OK
10	CRI01	CRI01	CRDL	03/12/25 11:05		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/12/25 11:09		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/12/25 11:14		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/12/25 11:21		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/12/25 11:25		Kareem	OK
15	CCV01	CCV01	CCV	03/12/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/12/25 11:34		Kareem	OK
17	PB167037BL	PB167037BL	MB	03/12/25 11:38		Kareem	OK
18	PB167037BS	PB167037BS	LCS	03/12/25 11:42	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	PB166981BL	PB166981BL	MB	03/12/25 11:46		Kareem	OK
20	PB166981BS	PB166981BS	LCS	03/12/25 11:51	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	PB167038BL	PB167038BL	MB	03/12/25 11:55		Kareem	OK
22	PB167038BS	PB167038BS	LCS	03/12/25 11:59	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	PB167024BL	PB167024BL	MB	03/12/25 12:03		Kareem	OK
24	PB167024BS	PB167024BS	LCS	03/12/25 12:07	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
25	PB167100BL	PB167100BL	MB	03/12/25 12:11		Kareem	OK
26	PB167100BS	PB167100BS	LCS	03/12/25 12:16	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
27	CCV02	CCV02	CCV	03/12/25 12:20		Kareem	OK
28	CCB02	CCB02	CCB	03/12/25 12:24		Kareem	OK
29	PB166977BL	PB166977BL	MB	03/12/25 12:28		Kareem	OK
30	PB166977BS	PB166977BS	LCS	03/12/25 12:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
31	PB166963BL	PB166963BL	MB	03/12/25 12:37	Not Use	Kareem	Not Ok
32	PB166963BS	PB166963BS	LCS	03/12/25 12:41	Not Use	Kareem	Not Ok
33	Q1466-05	CITY WATER	SAM	03/12/25 12:49		Kareem	OK
34	Q1466-05DUP	CITY WATERDUP	DUP	03/12/25 12:53		Kareem	OK

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ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

35	Q1466-05L	CITY WATERL	SD	03/12/25 12:58		Kareem	OK
36	Q1466-05MS	CITY WATERMS	MS	03/12/25 13:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
37	Q1466-05MSD	CITY WATERMSD	MSD	03/12/25 13:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
38	CCV03	CCV03	CCV	03/12/25 13:10		Kareem	OK
39	CCB03	CCB03	CCB	03/12/25 13:14		Kareem	OK
40	Q1466-05A	CITY WATERA	PS	03/12/25 13:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
41	Q1507-01	50-MIDDLESEX-AVE	SAM	03/12/25 13:22		Kareem	OK
42	Q1508-01	RBR251372	SAM	03/12/25 13:27		Kareem	OK
43	Q1510-01	FMC-25-0001-0005	SAM	03/12/25 13:31		Kareem	OK
44	PB167098BL	PB167098BL	MB	03/12/25 13:59		Kareem	OK
45	PB167098BS	PB167098BS	LCS	03/12/25 14:03	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	PB167099BL	PB167099BL	MB	03/12/25 14:07		Kareem	OK
47	PB167099BS	PB167099BS	LCS	03/12/25 14:12	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	Q1515-01	AU-06-030625	SAM	03/12/25 14:16		Kareem	OK
49	Q1515-01DUP	AU-06-030625DUP	DUP	03/12/25 14:20		Kareem	OK
50	CCV04	CCV04	CCV	03/12/25 14:24		Kareem	OK

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CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

51	CCB04	CCB04	CCB	03/12/25 14:28		Kareem	OK
52	Q1540-01	OU4-CF-15R-031025	SAM	03/12/25 14:32		Kareem	OK
53	Q1540-01DUP	OU4-CF-15R-031025	DUP	03/12/25 14:37		Kareem	OK
54	Q1540-01L	OU4-CF-15R-031025	SD	03/12/25 14:41		Kareem	OK
55	Q1540-01A	OU4-CF-15R-031025	PS	03/12/25 14:58	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	PB167088TB	PB167088TB	MB	03/12/25 15:02		Kareem	OK
57	Q1545-01	BU-02-031125	SAM	03/12/25 15:06		Kareem	OK
58	Q1545-01DUP	BU-02-031125DUP	DUP	03/12/25 15:11		Kareem	OK
59	Q1545-01L	BU-02-031125L	SD	03/12/25 15:15		Kareem	OK
60	CCV05	CCV05	CCV	03/12/25 15:25		Kareem	OK
61	CCB05	CCB05	CCB	03/12/25 15:29		Kareem	OK
62	Q1545-01MS	BU-02-031125MS	MS	03/12/25 15:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1545-01MSD	BU-02-031125MSD	MSD	03/12/25 15:37	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1545-01A	BU-02-031125A	PS	03/12/25 15:41	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	Q1547-01	OR-620-JB-COMP-01	SAM	03/12/25 15:45		Kareem	OK
66	Q1547-06	OR-620-JB-COMP-02	SAM	03/12/25 15:49		Kareem	OK

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ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

67	Q1549-01	72-11978	SAM	03/12/25 15:54		Kareem	OK
68	Q1515-01L	AU-06-030625L	SD	03/12/25 15:58		Kareem	OK
69	Q1515-01MS	AU-06-030625MS	MS	03/12/25 16:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
70	Q1515-01MSD	AU-06-030625MSD	MSD	03/12/25 16:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
71	Q1515-01A	AU-06-030625A	PS	03/12/25 16:10	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
72	CCV06	CCV06	CCV	03/12/25 16:25		Kareem	OK
73	CCB06	CCB06	CCB	03/12/25 16:30		Kareem	OK
74	Q1540-01MS	OU4-CF-15R-031025I	MS	03/12/25 16:34	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	Q1540-01MSD	OU4-CF-15R-031025I	MSD	03/12/25 16:38	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
76	Q1516-03	GAS-AUD-25-0026	SAM	03/12/25 16:42		Kareem	OK
77	Q1519-01	WATER TREATMENT	SAM	03/12/25 16:47		Kareem	OK
78	LR1	LR1	HIGH STD	03/12/25 16:53		Kareem	OK
79	LR2	LR2	HIGH STD	03/12/25 16:58		Kareem	OK
80	Q1517-01DL	MOO-25-0062DL	SAM	03/12/25 17:02		Kareem	OK
81	Q1522-02	TW-WTS-04	SAM	03/12/25 17:07		Kareem	OK
82	Q1522-02DUP	TW-WTS-04DUP	DUP	03/12/25 17:11		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 # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

83	Q1522-02L	TW-WTS-04L	SD	03/12/25 17:16		Kareem	OK
84	CCV07	CCV07	CCV	03/12/25 17:25		Kareem	OK
85	CCB07	CCB07	CCB	03/12/25 17:30		Kareem	OK
86	Q1522-02MS	TW-WTS-04MS	MS	03/12/25 17:35	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
87	Q1522-02MSD	TW-WTS-04MSD	MSD	03/12/25 17:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
88	Q1522-02A	TW-WTS-04A	PS	03/12/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1478-07	IDW-AQ-IW-03-COMP	SAM	03/12/25 17:47		Kareem	OK
90	Q1478-07DUP	IDW-AQ-IW-03-COMP	DUP	03/12/25 17:52		Kareem	OK
91	Q1478-07L	IDW-AQ-IW-03-COMP	SD	03/12/25 17:56		Kareem	OK
92	Q1478-07MS	IDW-AQ-IW-03-COMP	MS	03/12/25 18:00	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	Q1478-07MSD	IDW-AQ-IW-03-COMP	MSD	03/12/25 18:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
94	Q1478-07A	IDW-AQ-IW-03-COMP	PS	03/12/25 18:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/12/25 18:13		Kareem	OK
96	CCV08	CCV08	CCV	03/12/25 18:23		Kareem	OK
97	CCB08	CCB08	CCB	03/12/25 18:27		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

98	Q1478-03	IDW-AQ-IW-01-COMP	SAM	03/12/25 18:31		Kareem	OK
99	Q1478-05	IDW-AQ-IW-02-COMP	SAM	03/12/25 18:36		Kareem	OK
100	Q1477-01	RW7-SP100-2025022	SAM	03/12/25 18:40		Kareem	OK
101	Q1477-04	RW7-SP303-2025022	SAM	03/12/25 18:44		Kareem	OK
102	CCV09	CCV09	CCV	03/12/25 18:49		Kareem	OK
103	CCB09	CCB09	CCB	03/12/25 18:53		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/13/25 11:42		Kareem	OK
2	S1	S1	CAL2	03/13/25 11:46		Kareem	OK
3	S2	S2	CAL3	03/13/25 11:50		Kareem	OK
4	S3	S3	CAL4	03/13/25 11:54		Kareem	OK
5	S4	S4	CAL5	03/13/25 11:59		Kareem	OK
6	S5	S5	CAL6	03/13/25 12:03		Kareem	OK
7	ICV01	ICV01	ICV	03/13/25 12:07		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/13/25 12:13		Kareem	OK
9	ICB01	ICB01	ICB	03/13/25 12:17		Kareem	OK
10	CRI01	CRI01	CRDL	03/13/25 12:21		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/13/25 12:25		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/13/25 12:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/13/25 12:34		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/13/25 12:38		Kareem	OK
15	CCV01	CCV01	CCV	03/13/25 12:53		Kareem	OK
16	CCB01	CCB01	CCB	03/13/25 12:58		Kareem	OK
17	PB166963BL	PB166963BL	MB	03/13/25 13:02		Kareem	OK
18	PB166963BS	PB166963BS	LCS	03/13/25 13:06		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 # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

19	PB167116BL	PB167116BL	MB	03/13/25 13:10		Kareem	OK
20	PB167116BS	PB167116BS	LCS	03/13/25 13:15		Kareem	OK
21	Q1485-01	DN-B-41	SAM	03/13/25 13:19		Kareem	OK
22	Q1486-01	DN-B-40	SAM	03/13/25 13:23		Kareem	OK
23	Q1487-01	DN-B-42	SAM	03/13/25 13:27		Kareem	OK
24	Q1488-04	ENV-101-SB02	SAM	03/13/25 13:31		Kareem	OK
25	Q1488-06	ENV-102-SB01	SAM	03/13/25 13:35		Kareem	OK
26	Q1488-08	ENV-102-SB02	SAM	03/13/25 13:40		Kareem	OK
27	CCV02	CCV02	CCV	03/13/25 13:49		Kareem	OK
28	CCB02	CCB02	CCB	03/13/25 13:54		Kareem	OK
29	Q1488-10	ENV-104-SB01	SAM	03/13/25 13:58		Kareem	OK
30	Q1488-12	ENV-104-SB02	SAM	03/13/25 14:02		Kareem	OK
31	Q1488-14	ENV-104-GW01	SAM	03/13/25 14:07		Kareem	OK
32	Q1488-01	ENV-101-SB01	SAM	03/13/25 14:11		Kareem	OK
33	Q1488-03	ENV-101-SB02	SAM	03/13/25 14:15		Kareem	OK
34	Q1488-05	ENV-102-SB01	SAM	03/13/25 14:19		Kareem	OK
35	Q1488-07	ENV-102-SB02	SAM	03/13/25 14:23		Kareem	OK
36	Q1488-09	ENV-104-SB01	SAM	03/13/25 14:27		Kareem	OK
37	Q1488-11	ENV-104-SB02	SAM	03/13/25 14:31		Kareem	OK
38	Q1491-02	COMP	SAM	03/13/25 14:35		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

39	CCV03	CCV03	CCV	03/13/25 14:40		Kareem	OK
40	CCB03	CCB03	CCB	03/13/25 14:48		Kareem	OK
41	Q1495-01	001-WILLETS-PT-BL	SAM	03/13/25 14:53		Kareem	OK
42	Q1495-02	002-35TH-AVE(MAR)	SAM	03/13/25 14:57		Kareem	OK
43	Q1514-02	ENV-105-SB01	SAM	03/13/25 15:01		Kareem	OK
44	Q1514-04	ENV-105-SB02	SAM	03/13/25 15:06		Kareem	OK
45	Q1514-06	ENV-103-SB01	SAM	03/13/25 15:10		Kareem	OK
46	Q1514-06DUP	ENV-103-SB01DUP	DUP	03/13/25 15:15		Kareem	OK
47	Q1514-06L	ENV-103-SB01L	SD	03/13/25 15:19		Kareem	OK
48	Q1514-06MS	ENV-103-SB01MS	MS	03/13/25 15:23		Kareem	OK
49	Q1514-06MSD	ENV-103-SB01MSD	MSD	03/13/25 15:28		Kareem	OK
50	Q1514-06A	ENV-103-SB01A	PS	03/13/25 15:34		Kareem	OK
51	CCV04	CCV04	CCV	03/13/25 15:38		Kareem	OK
52	CCB04	CCB04	CCB	03/13/25 15:42		Kareem	OK
53	Q1514-08	ENV-103-GW01	SAM	03/13/25 15:46		Kareem	OK
54	Q1514-09	FB03062025	SAM	03/13/25 15:51		Kareem	OK
55	Q1514-01	ENV-105-SB01	SAM	03/13/25 15:55		Kareem	OK
56	Q1514-03	ENV-105-SB02	SAM	03/13/25 15:59		Kareem	OK
57	Q1514-05	ENV-103-SB01	SAM	03/13/25 16:03		Kareem	OK
58	Q1525-01	MW10	SAM	03/13/25 16:08	Mn high	Kareem	Dilution

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

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ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

59	Q1552-01	NB-418-JB-COMP-01	SAM	03/13/25 16:12		Kareem	OK
60	Q1553-01	RT2321	SAM	03/13/25 16:16		Kareem	OK
61	Q1556-01	OR-02-031225	SAM	03/13/25 16:20	MS,MSD fail for many parameters	Kareem	Not Ok
62	Q1556-01DUP	OR-02-031225DUP	DUP	03/13/25 16:24	MS,MSD fail for many parameters	Kareem	Not Ok
63	CCV05	CCV05	CCV	03/13/25 16:28		Kareem	OK
64	CCB05	CCB05	CCB	03/13/25 16:32		Kareem	OK
65	Q1556-01L	OR-02-031225L	SD	03/13/25 16:37	MS,MSD fail for many parameters	Kareem	Not Ok
66	Q1556-01MS	OR-02-031225MS	MS	03/13/25 16:41	Fail for many parameters	Kareem	Not Ok
67	Q1556-01MSD	OR-02-031225MSD	MSD	03/13/25 16:45	Fail for many parameters	Kareem	Not Ok
68	Q1556-01A	OR-02-031225A	PS	03/13/25 16:49	MS,MSD fail for many parameters	Kareem	Not Ok
69	LR1	LR1	HIGH STD	03/13/25 16:53		Kareem	OK
70	LR2	LR2	HIGH STD	03/13/25 16:58		Kareem	OK
71	PB167103TB	PB167103TB	MB	03/13/25 17:04		Kareem	OK
72	Q1547-05	OR-620-JB-COMP-01	SAM	03/13/25 17:08		Kareem	OK
73	Q1547-05DUP	OR-620-JB-COMP-01	DUP	03/13/25 17:13		Kareem	OK
74	Q1547-05L	OR-620-JB-COMP-01	SD	03/13/25 17:17		Kareem	OK
75	CCV06	CCV06	CCV	03/13/25 17:21		Kareem	OK
76	CCB06	CCB06	CCB	03/13/25 17:25		Kareem	OK
77	Q1547-05MS	OR-620-JB-COMP-01	MS	03/13/25 17:30		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

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ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

78	Q1547-05MSD	OR-620-JB-COMP-01	MSD	03/13/25 17:34		Kareem	OK
79	Q1547-05A	OR-620-JB-COMP-01	PS	03/13/25 17:38		Kareem	OK
80	Q1547-10	OR-620-JB-COMP-02	SAM	03/13/25 17:42		Kareem	OK
81	Q1552-05	NB-418-JB-COMP-01	SAM	03/13/25 17:47		Kareem	OK
82	PB167117BL	PB167117BL	MB	03/13/25 17:51		Kareem	OK
83	PB167117BS	PB167117BS	LCS	03/13/25 17:55		Kareem	OK
84	Q1525-01DL	MW10DL	SAM	03/13/25 17:59	5X for Mn	Kareem	Confirms
85	Q1488-13DL	ENV-102-GW01DL	SAM	03/13/25 18:04	10X for Ag	Kareem	Confirms
86	Q1514-07DL	ENV-105-GW01DL	SAM	03/13/25 18:08	10X for Ca,Ag,Fe	Kareem	Confirms
87	CCV07	CCV07	CCV	03/13/25 18:12		Kareem	OK
88	CCB07	CCB07	CCB	03/13/25 18:35		Kareem	OK
89	Q1488-13	ENV-102-GW01	SAM	03/13/25 18:39	Ag oversaturated	Kareem	Dilution
90	Q1514-07	ENV-105-GW01	SAM	03/13/25 18:44	Ag oversaturated,Ca,Fe high	Kareem	Dilution
91	Q1488-13REDL	ENV-102-GW01RE	SAM	03/13/25 18:49	Not used	Kareem	Not Ok
92	CCV08	CCV08	CCV	03/13/25 18:53		Kareem	OK
93	CCB08	CCB08	CCB	03/13/25 19:03		Kareem	OK
94	Q1528-02	22725	SAM	03/13/25 19:07		Kareem	OK
95	CCV09	CCV09	CCV	03/13/25 19:12		Kareem	OK
96	CCB09	CCB09	CCB	03/13/25 19:21		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166977

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 03/05/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 03/05/2025 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: SKS.

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	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 5 CELL 35 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/05/25 13:10	SKS. met dig	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166977

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166977BL	PBS977	N/A	2.04	100	Colorless	Yellow	Fine	N/A	N/A	1
PB166977BS	LCS977	N/A	2.01	100	Colorless	Yellow	Fine	N/A	M6003,M6011	2
Q1481-01	WC-K1311	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	3
Q1482-01	OR-03-030425	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	4
Q1482-01MS	OR-03-030425MS	N/A	2.27	100	Brown	Yellow	Medium	N/A	M6003,M6011	6
Q1482-01MSD	OR-03-030425MSD	N/A	2.29	100	Brown	Yellow	Medium	N/A	M6003,M6011	7
Q1482-01DUP	OR-03-030425DUP	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	5
Q1484-01	TR-OTR-COMP-01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	8
Q1485-01	DN-B-41	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	9
Q1486-01	DN-B-40	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	10
Q1487-01	DN-B-42	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	11
Q1488-01	ENV-101-SB01	N/A	2.23	100	Black	Yellow	Medium	N/A	N/A	12
Q1488-03	ENV-101-SB02	N/A	2.15	100	Black	Yellow	Medium	N/A	N/A	13
Q1488-05	ENV-102-SB01	N/A	2.17	100	Black	Yellow	Medium	N/A	N/A	14
Q1488-07	ENV-102-SB02	N/A	2.20	100	Black	Yellow	Medium	N/A	N/A	15
Q1488-09	ENV-104-SB01	N/A	2.47	100	Black	Yellow	Medium	N/A	N/A	16
Q1488-11	ENV-104-SB02	N/A	2.27	100	Black	Yellow	Medium	N/A	N/A	17
Q1489-01	TP-1	N/A	2.15	100	Gray	Yellow	Medium	N/A	N/A	18
Q1489-05	TP-2	N/A	2.37	100	Gray	Yellow	Medium	N/A	N/A	19
Q1489-09	TP-3	N/A	2.42	100	Gray	Yellow	Medium	N/A	N/A	20
Q1489-13	TP-4	N/A	2.38	100	Gray	Yellow	Medium	N/A	N/A	21

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166987

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: 03/05/2025 **Time :** 09:50 **Temp :** 94 °C

End Digest Date: 03/05/2025 **Time :** 11:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JZ

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84766
CCV	30mL	MP84768
CRA	30mL	MP84770
Blank Spike	0.48mL	MP84759
Matrix Spike	0.48mL	MP84759

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	MP84760
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84761
2.5 ppb	S2.5	30mL	MP84762
5.0 ppb	S5.0	30mL	MP84763
7.5 ppb	S7.5	30mL	MP84764
10.0 ppb	S10.0	30mL	MP84765
ICV	ICV	30mL	MP84766
ICB	ICB	30mL	MP84767
CCV	CCV	30mL	MP84768
CCB	CCB	30mL	MP84769
CRI	CRI	30mL	MP84770
CHK STD	CHK STD	30mL	MP84771

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25 @ 12:15	MB - Dig. Lab	MB - Metals Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166987

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166987BL	PBW987	30	30	<2	N/A	3-1
PB166987BS	LCS987	30	30	<2	MP84759	2
Q1476-01	TRE-25-0014	30	30	<2	N/A	3
Q1480-33	TP-3-WATER-SAMPLE	30	30	<2	N/A	4
Q1488-13	ENV-102-GW01	30	30	<2	N/A	5
Q1488-14	ENV-104-GW01	30	30	<2	N/A	6
Q1488-14DUP	ENV-104-GW01DUP	30	30	<2	N/A	7
Q1488-14MS	ENV-104-GW01MS	30	30	<2	MP84759	8
Q1488-14MSD	ENV-104-GW01MSD	30	30	<2	MP84759	9

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167002

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: 03/06/2025 **Time :** 08:50 **Temp :** 96 °C

End Digest Date: 03/06/2025 **Time :** 11:55 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-1	0.25	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6126
1:1 HCL	5.00	MP84720
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1 CELL 55 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/06/25 12:55	SLD. met. dig.	Melanie Cook
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167002

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167002BL	PBW002	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11
PB167002BS	LCS002	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	12
Q1488-13	ENV-102-GW01	<2	50	25	Brown	Brown	Cloudy	Cloudy	N/A	13
Q1488-14	ENV-104-GW01	<2	50	25	Brown	Brown	Cloudy	Cloudy	N/A	14
Q1494-01	PURGE-WATER	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
Q1494-01MS	PURGE-WATERMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	17
Q1494-01MSD	PURGE-WATERMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	18
Q1494-01DUP	PURGE-WATERDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167021

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: 03/05/2025 **Time :** 16:00 **Temp :** 95 °C

End Digest Date: 03/05/2025 **Time :** 16:30 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84766
CCV	30mL	MP84768
CRA	30mL	MP84770
Blank Spike	0.48mL	MP84759
Matrix Spike	0.48mL	MP84759

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP84772
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	MP84760
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84761
2.5 ppb	S2.5	30mL	MP84762
5.0 ppb	S5.0	30mL	MP84763
7.5 ppb	S7.5	30mL	MP84764
10.0 ppb	S10.0	30mL	MP84765
ICV	ICV	30mL	MP84766
ICB	ICB	30mL	MP84767
CCV	CCV	30mL	MP84768
CCB	CCB	30mL	MP84769
CRI	CRI	30mL	MP84770
CHK STD	CHK STD	30mL	MP84771

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
31/5/25 @ 17:10	MB - HG Lab	MB - metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167021

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167021BL	PBS021	0.52	35	NA	N/A	3-1
PB167021BS	LCS021	0.57	35	NA	MP84759	2
Q1488-01	ENV-101-SB01	0.53	35	NA	N/A	3
Q1488-03	ENV-101-SB02	0.54	35	NA	N/A	4
Q1488-05	ENV-102-SB01	0.57	35	NA	N/A	5
Q1488-07	ENV-102-SB02	0.55	35	NA	N/A	6
Q1488-09	ENV-104-SB01	0.54	35	NA	N/A	7
Q1488-11	ENV-104-SB02	0.55	35	NA	N/A	8
Q1490-01	CLAY-SLUDGE-DRUMS	0.60	35	NA	N/A	9
Q1494-03	ASPHALT-SOIL	0.59	35	NA	N/A	10
Q1494-05	SOIL	0.52	35	NA	N/A	11
Q1494-07	SOIL-COMP	0.56	35	NA	N/A	12
Q1494-07DUP	SOIL-COMPDUP	0.54	35	NA	N/A	13
Q1494-07MS	SOIL-COMPMS	0.57	35	NA	MP84759	14
Q1494-07MSD	SOIL-COMPMSD	0.58	35	NA	MP84759	15

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

Hit Summary Sheet
SW-846

SDG No.: Q1488 **Order ID:** Q1488

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ENV-101-SB01								
Q1488-02	ENV-101-SB01	TCLP	Barium	932		62.8	500	ug/L
Client ID : ENV-101-SB02								
Q1488-04	ENV-101-SB02	TCLP	Barium	779		62.8	500	ug/L
Client ID : ENV-102-SB01								
Q1488-06	ENV-102-SB01	TCLP	Barium	1530		62.8	500	ug/L
Q1488-06	ENV-102-SB01	TCLP	Cadmium	8.73	J	0.94	30.0	ug/L
Q1488-06	ENV-102-SB01	TCLP	Lead	170		35.1	60.0	ug/L
Client ID : ENV-102-SB02								
Q1488-08	ENV-102-SB02	TCLP	Barium	1000		62.8	500	ug/L
Client ID : ENV-104-SB01								
Q1488-10	ENV-104-SB01	TCLP	Barium	586		62.8	500	ug/L
Q1488-10	ENV-104-SB01	TCLP	Cadmium	8.58	J	0.94	30.0	ug/L
Q1488-10	ENV-104-SB01	TCLP	Lead	157		35.1	60.0	ug/L
Client ID : ENV-104-SB02								
Q1488-12	ENV-104-SB02	TCLP	Barium	591		62.8	500	ug/L
Q1488-12	ENV-104-SB02	TCLP	Cadmium	5.26	J	0.94	30.0	ug/L
Q1488-12	ENV-104-SB02	TCLP	Lead	446		35.1	60.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	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	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7440-39-3	Barium	932		1	62.8	500	ug/L	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 10:58	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/11/25 14:38	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/11/25 14:38	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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	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	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7440-39-3	Barium	779		1	62.8	500	ug/L	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 11:00	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/13/25 13:31	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/13/25 13:31	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
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	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	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7440-39-3	Barium	1530		1	62.8	500	ug/L	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7440-43-9	Cadmium	8.73	J	1	0.94	30.0	ug/L	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7439-92-1	Lead	170		1	35.1	60.0	ug/L	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 11:02	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/13/25 13:35	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/13/25 13:35	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
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	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	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7440-39-3	Barium	1000		1	62.8	500	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 11:05	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/13/25 13:40	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
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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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	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	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7440-39-3	Barium	586		1	62.8	500	ug/L	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7440-43-9	Cadmium	8.58	J	1	0.94	30.0	ug/L	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7439-92-1	Lead	157		1	35.1	60.0	ug/L	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 11:07	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/13/25 13:58	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/13/25 13:58	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:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	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	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7440-39-3	Barium	591		1	62.8	500	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7440-43-9	Cadmium	5.26	J	1	0.94	30.0	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7439-92-1	Lead	446		1	35.1	60.0	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	03/07/25 14:40	03/10/25 11:14	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	03/10/25 12:05	03/13/25 14:02	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB35	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	10:26	LB134958

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB75	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	10:39	LB134958
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	11:11	LB134958
CCB77	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	11:53	LB134958
CCB78	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	12:26	LB134958
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	12:47	LB134958
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	03/10/2025	13:12	LB134958

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/11/2025	10:58	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	10:58	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/11/2025	11:34	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	11:34	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	12:23	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	13:14	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	14:13	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:04	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/11/2025	15:54	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	16:46	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	16:46	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	16:46	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	16:46	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	16:46	LB134987
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	17:38	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	17:38	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	17:38	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	17:38	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	17:38	LB134987
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	18:30	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	18:30	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	18:30	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	18:30	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	18:30	LB134987
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	19:18	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:18	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:18	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:18	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:18	LB134987
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	19:31	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:31	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:31	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:31	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:31	LB134987
CCB12	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/11/2025	19:49	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:49	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:49	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:49	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	19:49	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/12/2025	11:01	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:01	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:01	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/12/2025	11:34	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:34	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:34	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	12:24	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	12:24	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	13:14	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	13:14	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	14:28	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	14:28	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	15:29	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	15:29	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	16:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/12/2025	16:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	17:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	17:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:27	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:27	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:53	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:53	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/13/2025	12:17	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:17	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/13/2025	12:58	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:58	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	13:54	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	14:48	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	15:42	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	16:32	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	03/13/2025	17:25	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	18:35	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	18:35	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:03	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:21	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167020TB		**WATER**		**Batch Number:**	**PB167033**		**Prep Date:**	**03/07/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	03/10/2025	12:49	LB134958

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167033BL		**WATER**		**Batch Number:**	**PB167033**		**Prep Date:**	**03/07/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	03/10/2025	10:53	LB134958

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167020TB		**WATER**		**Batch Number:**	**PB167037**		**Prep Date:**	**03/10/2025**	
	Arsenic	100	<100	U	100	P	03/11/2025	18:55	LB134987
	Barium	500	<500	U	500	P	03/11/2025	18:55	LB134987
	Cadmium	30.0	<30.0	U	30.0	P	03/11/2025	18:55	LB134987
	Chromium	50.0	<50.0	U	50.0	P	03/11/2025	18:55	LB134987
	Lead	60.0	<60.0	U	60.0	P	03/11/2025	18:55	LB134987
	Selenium	100	<100	U	100	P	03/11/2025	18:55	LB134987
	Silver	50.0	<50.0	U	50.0	P	03/11/2025	18:55	LB134987

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167037BL		**WATER**		**Batch Number:**	**PB167037**		**Prep Date:**	**03/10/2025**	
	Arsenic	100	<100	U	100	P	03/12/2025	11:38	LB135011
	Barium	500	<500	U	500	P	03/12/2025	11:38	LB135011
	Cadmium	30.0	<30.0	U	30.0	P	03/12/2025	11:38	LB135011
	Chromium	50.0	<50.0	U	50.0	P	03/12/2025	11:38	LB135011
	Lead	60.0	<60.0	U	60.0	P	03/12/2025	11:38	LB135011
	Selenium	100	<100	U	100	P	03/12/2025	11:38	LB135011
	Silver	50.0	<50.0	U	50.0	P	03/12/2025	11:38	LB135011

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
ICV35	Mercury	4.01	4.0	100	90 - 110	CV	03/10/2025	10:22	LB134958

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
CCV75	Mercury	4.61	5.0	92	90 - 110	CV	03/10/2025	10:34	LB134958
CCV76	Mercury	4.87	5.0	97	90 - 110	CV	03/10/2025	11:09	LB134958
CCV77	Mercury	5.16	5.0	103	90 - 110	CV	03/10/2025	11:48	LB134958
CCV78	Mercury	5.20	5.0	104	90 - 110	CV	03/10/2025	12:18	LB134958
CCV79	Mercury	5.06	5.0	101	90 - 110	CV	03/10/2025	12:45	LB134958
CCV80	Mercury	5.43	5.0	109	90 - 110	CV	03/10/2025	13:10	LB134958

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1040	1000	104	90 - 110	P	03/11/2025	10:50	LB134987
	Barium	543	520	104	90 - 110	P	03/11/2025	10:50	LB134987
	Cadmium	511	510	100	90 - 110	P	03/11/2025	10:50	LB134987
	Chromium	527	520	101	90 - 110	P	03/11/2025	10:50	LB134987
	Lead	1020	1000	102	90 - 110	P	03/11/2025	10:50	LB134987
	Selenium	1040	1000	104	90 - 110	P	03/11/2025	10:50	LB134987
	Silver	259	250	104	90 - 110	P	03/11/2025	10:50	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Barium	94.6	100	95	80 - 120	P	03/11/2025	10:54	LB134987
	Cadmium	5.80	6.0	97	80 - 120	P	03/11/2025	10:54	LB134987
	Chromium	10.2	10.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Lead	12.0	12.0	100	80 - 120	P	03/11/2025	10:54	LB134987
	Selenium	20.5	20.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Silver	10.4	10.0	104	80 - 120	P	03/11/2025	10:54	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	5010	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Barium	10200	10000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Chromium	1010	1000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Lead	5030	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Selenium	4990	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Silver	1270	1250	101	90 - 110	P	03/11/2025	11:29	LB134987
CCV02	Arsenic	5150	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Barium	9970	10000	100	90 - 110	P	03/11/2025	12:19	LB134987
	Cadmium	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Chromium	1040	1000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Lead	5120	5000	102	90 - 110	P	03/11/2025	12:19	LB134987
	Selenium	5170	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Silver	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
CCV03	Arsenic	4860	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Barium	9710	10000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Chromium	964	1000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Lead	4830	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	13:10	LB134987
CCV04	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	14:08	LB134987
	Barium	10100	10000	101	90 - 110	P	03/11/2025	14:08	LB134987
	Cadmium	2470	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Chromium	965	1000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Selenium	4920	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Silver	1240	1250	100	90 - 110	P	03/11/2025	14:08	LB134987
CCV05	Arsenic	4810	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Barium	9610	10000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Cadmium	2400	2500	96	90 - 110	P	03/11/2025	15:00	LB134987
	Chromium	934	1000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Lead	4760	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Selenium	4790	5000	96	90 - 110	P	03/11/2025	15:00	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1190	1250	96	90 - 110	P	03/11/2025	15:00	LB134987
CCV06	Arsenic	4820	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Barium	9620	10000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Lead	4800	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Selenium	4770	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	15:50	LB134987
CCV07	Arsenic	4920	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Barium	9730	10000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Cadmium	2460	2500	98	90 - 110	P	03/11/2025	16:42	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	16:42	LB134987
	Lead	4850	5000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Selenium	4910	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	16:42	LB134987
CCV08	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Barium	9820	10000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	17:34	LB134987
	Chromium	955	1000	96	90 - 110	P	03/11/2025	17:34	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Selenium	4930	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	17:34	LB134987
CCV09	Arsenic	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Barium	9800	10000	98	90 - 110	P	03/11/2025	18:26	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	18:26	LB134987
	Chromium	971	1000	97	90 - 110	P	03/11/2025	18:26	LB134987
	Lead	4960	5000	99	90 - 110	P	03/11/2025	18:26	LB134987
	Selenium	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Silver	1260	1250	101	90 - 110	P	03/11/2025	18:26	LB134987
CCV10	Arsenic	4890	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Barium	9280	10000	93	90 - 110	P	03/11/2025	19:14	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	19:14	LB134987
	Chromium	968	1000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	19:14	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	4860	5000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Silver	1230	1250	99	90 - 110	P	03/11/2025	19:14	LB134987
CCV11	Arsenic	4830	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Barium	9770	10000	98	90 - 110	P	03/11/2025	19:26	LB134987
	Cadmium	2390	2500	95	90 - 110	P	03/11/2025	19:26	LB134987
	Chromium	935	1000	94	90 - 110	P	03/11/2025	19:26	LB134987
	Lead	4740	5000	95	90 - 110	P	03/11/2025	19:26	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	19:26	LB134987
CCV12	Arsenic	4850	5000	97	90 - 110	P	03/11/2025	19:39	LB134987
	Barium	9430	10000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Cadmium	2380	2500	95	90 - 110	P	03/11/2025	19:39	LB134987
	Chromium	948	1000	95	90 - 110	P	03/11/2025	19:39	LB134987
	Lead	4680	5000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Selenium	5040	5000	101	90 - 110	P	03/11/2025	19:39	LB134987
	Silver	1210	1250	97	90 - 110	P	03/11/2025	19:39	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Barium	537	520	103	90 - 110	P	03/12/2025	10:52	LB135011
	Cadmium	506	510	99	90 - 110	P	03/12/2025	10:52	LB135011
	Chromium	541	520	104	90 - 110	P	03/12/2025	10:52	LB135011
	Lead	1020	1000	102	90 - 110	P	03/12/2025	10:52	LB135011
	Selenium	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Silver	262	250	105	90 - 110	P	03/12/2025	10:52	LB135011

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	22.2	20.0	111	80 - 120	P	03/12/2025	10:56	LB135011
	Barium	89.2	100	89	80 - 120	P	03/12/2025	10:56	LB135011
	Cadmium	5.83	6.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Chromium	10.6	10.0	106	80 - 120	P	03/12/2025	10:56	LB135011
	Lead	11.7	12.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Selenium	17.5	20.0	87	80 - 120	P	03/12/2025	10:56	LB135011
	Silver	11.0	10.0	110	80 - 120	P	03/12/2025	10:56	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	5210	5000	104	90 - 110	P	03/12/2025	11:29	LB135011
	Barium	9300	10000	93	90 - 110	P	03/12/2025	11:29	LB135011
	Cadmium	2470	2500	99	90 - 110	P	03/12/2025	11:29	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	11:29	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	11:29	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Silver	1260	1250	101	90 - 110	P	03/12/2025	11:29	LB135011
CCV02	Arsenic	5150	5000	103	90 - 110	P	03/12/2025	12:20	LB135011
	Barium	9180	10000	92	90 - 110	P	03/12/2025	12:20	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	12:20	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	12:20	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	12:20	LB135011
	Selenium	5180	5000	104	90 - 110	P	03/12/2025	12:20	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	12:20	LB135011
CCV03	Arsenic	5100	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	13:10	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	13:10	LB135011
	Lead	5000	5000	100	90 - 110	P	03/12/2025	13:10	LB135011
	Selenium	5090	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Silver	1290	1250	103	90 - 110	P	03/12/2025	13:10	LB135011
CCV04	Arsenic	5330	5000	107	90 - 110	P	03/12/2025	14:24	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	14:24	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	14:24	LB135011
	Lead	5090	5000	102	90 - 110	P	03/12/2025	14:24	LB135011
	Selenium	5140	5000	103	90 - 110	P	03/12/2025	14:24	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	14:24	LB135011
CCV05	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	15:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	15:25	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	15:25	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	15:25	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1250	1250	100	90 - 110	P	03/12/2025	15:25	LB135011
CCV06	Arsenic	5190	5000	104	90 - 110	P	03/12/2025	16:25	LB135011
	Barium	9100	10000	91	90 - 110	P	03/12/2025	16:25	LB135011
	Cadmium	2450	2500	98	90 - 110	P	03/12/2025	16:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	16:25	LB135011
	Lead	4990	5000	100	90 - 110	P	03/12/2025	16:25	LB135011
	Selenium	4960	5000	99	90 - 110	P	03/12/2025	16:25	LB135011
	Silver	1260	1250	100	90 - 110	P	03/12/2025	16:25	LB135011
CCV07	Arsenic	5300	5000	106	90 - 110	P	03/12/2025	17:25	LB135011
	Barium	9240	10000	92	90 - 110	P	03/12/2025	17:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	17:25	LB135011
	Lead	5030	5000	101	90 - 110	P	03/12/2025	17:25	LB135011
	Selenium	5120	5000	102	90 - 110	P	03/12/2025	17:25	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	17:25	LB135011
CCV08	Arsenic	5240	5000	105	90 - 110	P	03/12/2025	18:23	LB135011
	Barium	9130	10000	91	90 - 110	P	03/12/2025	18:23	LB135011
	Cadmium	2490	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	18:23	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:23	LB135011
	Selenium	5010	5000	100	90 - 110	P	03/12/2025	18:23	LB135011
	Silver	1280	1250	102	90 - 110	P	03/12/2025	18:23	LB135011
CCV09	Arsenic	5290	5000	106	90 - 110	P	03/12/2025	18:49	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	18:49	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	18:49	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	18:49	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Selenium	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	18:49	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Barium	533	520	102	90 - 110	P	03/13/2025	12:07	LB135035
	Cadmium	503	510	99	90 - 110	P	03/13/2025	12:07	LB135035
	Chromium	525	520	101	90 - 110	P	03/13/2025	12:07	LB135035
	Lead	1000	1000	100	90 - 110	P	03/13/2025	12:07	LB135035
	Selenium	1040	1000	104	90 - 110	P	03/13/2025	12:07	LB135035
	Silver	252	250	101	90 - 110	P	03/13/2025	12:07	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	17.3	20.0	86	80 - 120	P	03/13/2025	12:13	LB135035
	Barium	92.2	100	92	80 - 120	P	03/13/2025	12:13	LB135035
	Cadmium	5.95	6.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Chromium	10.1	10.0	101	80 - 120	P	03/13/2025	12:13	LB135035
	Lead	12.6	12.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Selenium	19.2	20.0	96	80 - 120	P	03/13/2025	12:13	LB135035
	Silver	10.6	10.0	106	80 - 120	P	03/13/2025	12:13	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	5160	5000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Barium	9860	10000	99	90 - 110	P	03/13/2025	12:53	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	12:53	LB135035
	Chromium	1050	1000	105	90 - 110	P	03/13/2025	12:53	LB135035
	Lead	5190	5000	104	90 - 110	P	03/13/2025	12:53	LB135035
	Selenium	5070	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
	Silver	1300	1250	104	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Arsenic	5290	5000	106	90 - 110	P	03/13/2025	13:49	LB135035
	Barium	10100	10000	101	90 - 110	P	03/13/2025	13:49	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
	Chromium	1100	1000	110	90 - 110	P	03/13/2025	13:49	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	13:49	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Arsenic	5130	5000	102	90 - 110	P	03/13/2025	14:40	LB135035
	Barium	9830	10000	98	90 - 110	P	03/13/2025	14:40	LB135035
	Cadmium	2540	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
	Chromium	1050	1000	106	90 - 110	P	03/13/2025	14:40	LB135035
	Lead	5150	5000	103	90 - 110	P	03/13/2025	14:40	LB135035
	Selenium	5060	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Silver	1280	1250	103	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Barium	9580	10000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	15:38	LB135035
	Chromium	1030	1000	103	90 - 110	P	03/13/2025	15:38	LB135035
	Lead	5050	5000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Selenium	4830	5000	97	90 - 110	P	03/13/2025	15:38	LB135035
	Silver	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	16:28	LB135035
	Barium	9880	10000	99	90 - 110	P	03/13/2025	16:28	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	16:28	LB135035
	Lead	5300	5000	106	90 - 110	P	03/13/2025	16:28	LB135035
	Selenium	5150	5000	103	90 - 110	P	03/13/2025	16:28	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Arsenic	5070	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Barium	9980	10000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	17:21	LB135035
	Chromium	1060	1000	106	90 - 110	P	03/13/2025	17:21	LB135035
	Lead	5180	5000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Selenium	4970	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Silver	1290	1250	103	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	18:12	LB135035
	Barium	9960	10000	100	90 - 110	P	03/13/2025	18:12	LB135035
	Cadmium	2640	2500	106	90 - 110	P	03/13/2025	18:12	LB135035
	Chromium	1090	1000	109	90 - 110	P	03/13/2025	18:12	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	18:12	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Barium	9390	10000	94	90 - 110	P	03/13/2025	18:53	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	18:53	LB135035
	Chromium	1040	1000	104	90 - 110	P	03/13/2025	18:53	LB135035
	Lead	5060	5000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Selenium	4840	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
	Silver	1250	1250	100	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Arsenic	5280	5000	106	90 - 110	P	03/13/2025	19:12	LB135035
	Barium	9620	10000	96	90 - 110	P	03/13/2025	19:12	LB135035
	Cadmium	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	19:12	LB135035
	Lead	5120	5000	102	90 - 110	P	03/13/2025	19:12	LB135035
	Selenium	5440	5000	109	90 - 110	P	03/13/2025	19:12	LB135035
	Silver	1290	1250	104	90 - 110	P	03/13/2025	19:12	LB135035

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	106	40 - 160	CV	03/10/2025	10:41	LB134958
CRI01	Arsenic	19.0	20.0	95	40 - 160	P	03/11/2025	11:02	LB134987
	Barium	95.1	100	95	40 - 160	P	03/11/2025	11:02	LB134987
	Cadmium	5.81	6.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Chromium	9.83	10.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Lead	11.9	12.0	99	40 - 160	P	03/11/2025	11:02	LB134987
	Selenium	21.9	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Silver	10.3	10.0	103	40 - 160	P	03/11/2025	11:02	LB134987
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	03/12/2025	11:05	LB135011
	Barium	88.8	100	89	40 - 160	P	03/12/2025	11:05	LB135011
	Cadmium	5.85	6.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Chromium	10.3	10.0	103	40 - 160	P	03/12/2025	11:05	LB135011
	Lead	10.9	12.0	91	40 - 160	P	03/12/2025	11:05	LB135011
	Selenium	18.3	20.0	92	40 - 160	P	03/12/2025	11:05	LB135011
	Silver	11.1	10.0	111	40 - 160	P	03/12/2025	11:05	LB135011
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Barium	94.0	100	94	40 - 160	P	03/13/2025	12:21	LB135035
	Cadmium	5.90	6.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Chromium	10.4	10.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Lead	11.7	12.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Selenium	21.3	20.0	107	40 - 160	P	03/13/2025	12:21	LB135035
	Silver	10.6	10.0	106	40 - 160	P	03/13/2025	12:21	LB135035

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	6.46			-20	20	03/11/2025	11:06	LB134987
	Barium	5.32	6.0	89	-94	106	03/11/2025	11:06	LB134987
	Cadmium	-2.31	1.0	231	-5	7	03/11/2025	11:06	LB134987
	Chromium	58.2	52.0	112	42	62	03/11/2025	11:06	LB134987
	Lead	3.81			-12	12	03/11/2025	11:06	LB134987
	Selenium	-16.3			-20	20	03/11/2025	11:06	LB134987
	Silver	-0.94			-10	10	03/11/2025	11:06	LB134987
ICSAB01	Arsenic	114	104	110	88.4	120	03/11/2025	11:11	LB134987
	Barium	487	537	91	437	637	03/11/2025	11:11	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:11	LB134987
	Chromium	567	542	105	460	624	03/11/2025	11:11	LB134987
	Lead	55.7	49.0	114	37	61	03/11/2025	11:11	LB134987
	Selenium	32.4	46.0	70	26	66	03/11/2025	11:11	LB134987
	Silver	220	201	110	170	232	03/11/2025	11:11	LB134987
ICSA01	Arsenic	5.78			-20	20	03/12/2025	11:09	LB135011
	Barium	1.43	6.0	24	-94	106	03/12/2025	11:09	LB135011
	Cadmium	-3.50	1.0	350	-5	7	03/12/2025	11:09	LB135011
	Chromium	60.0	52.0	115	42	62	03/12/2025	11:09	LB135011
	Lead	5.99			-12	12	03/12/2025	11:09	LB135011
	Selenium	-15.8			-20	20	03/12/2025	11:09	LB135011
	Silver	0.57			-10	10	03/12/2025	11:09	LB135011
ICSAB01	Arsenic	116	104	112	88.4	120	03/12/2025	11:14	LB135011
	Barium	454	537	84	437	637	03/12/2025	11:14	LB135011
	Cadmium	1000	972	103	826	1120	03/12/2025	11:14	LB135011
	Chromium	595	542	110	460	624	03/12/2025	11:14	LB135011
	Lead	52.3	49.0	107	37	61	03/12/2025	11:14	LB135011
	Selenium	34.2	46.0	74	26	66	03/12/2025	11:14	LB135011
	Silver	226	201	112	170	232	03/12/2025	11:14	LB135011
ICSA01	Arsenic	4.32			-20	20	03/13/2025	12:25	LB135035
	Barium	4.72	6.0	79	-94	106	03/13/2025	12:25	LB135035
	Cadmium	-3.11	1.0	311	-5	7	03/13/2025	12:25	LB135035
	Chromium	60.0	52.0	115	42	62	03/13/2025	12:25	LB135035
	Lead	4.72			-12	12	03/13/2025	12:25	LB135035
	Selenium	-15.2			-20	20	03/13/2025	12:25	LB135035
	Silver	-0.88			-10	10	03/13/2025	12:25	LB135035
ICSAB01	Arsenic	113	104	109	88.4	120	03/13/2025	12:30	LB135035
	Barium	485	537	90	437	637	03/13/2025	12:30	LB135035
	Cadmium	1000	972	103	826	1120	03/13/2025	12:30	LB135035
	Chromium	564	542	104	460	624	03/13/2025	12:30	LB135035
	Lead	54.2	49.0	111	37	61	03/13/2025	12:30	LB135035
	Selenium	43.0	46.0	94	26	66	03/13/2025	12:30	LB135035

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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	Silver	218	201	108	170	232	03/13/2025	12:30	LB135035

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1514-06 **client id:** ENV-103-SB01MS

Percent Solids for Sample: NA **Spiked ID:** Q1514-06MS **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	3900		100	U	4000	98		P
Barium	ug/L	75 - 125	1330		460	J	1000	87		P
Cadmium	ug/L	75 - 125	965		1.36	J	1000	96		P
Chromium	ug/L	75 - 125	2030		7.21	J	2000	101		P
Lead	ug/L	75 - 125	4640		60.0	U	5000	93		P
Mercury	ug/L	75 - 125	43.0		2.00	U	40.0	108		CV
Selenium	ug/L	75 - 125	9450		100	U	10000	94		P
Silver	ug/L	75 - 125	366		50.0	U	380	96		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1488

contract: PORT06 **lab code:** CHEM **case no.:** Q1488 **sas no.:** Q1488

matrix: Water **sample id:** Q1514-06 **client id:** ENV-103-SB01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1514-06MSD **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	3860		100	U	4000	96		P
Barium	ug/L	75 - 125	1350		460	J	1000	89		P
Cadmium	ug/L	75 - 125	962		1.36	J	1000	96		P
Chromium	ug/L	75 - 125	1990		7.21	J	2000	99		P
Lead	ug/L	75 - 125	4620		60.0	U	5000	92		P
Mercury	ug/L	75 - 125	42.1		2.00	U	40.0	105		CV
Selenium	ug/L	75 - 125	9330		100	U	10000	93		P
Silver	ug/L	75 - 125	362		50.0	U	380	95		P

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Metals
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Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1514-06 **Client ID:** ENV-103-SB01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1514-06DUP **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	460	J	471	J	2		P
Cadmium	ug/L	20	1.36	J	1.07	J	24		P
Chromium	ug/L	20	7.21	J	8.85	J	20		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Matrix: Water **Sample ID:** Q1514-06MS **Client ID:** ENV-103-SB01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1514-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3900		3860		1		P
Barium	ug/L	20	1330		1350		1		P
Cadmium	ug/L	20	965		962		0		P
Chromium	ug/L	20	2030		1990		2		P
Lead	ug/L	20	4640		4620		0		P
Mercury	ug/L	20	43.0		42.1		2		CV
Selenium	ug/L	20	9450		9330		1		P
Silver	ug/L	20	366		362		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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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167033BS							
Mercury	ug/L	4.0	4.10		102	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167037BS							
Arsenic	ug/L	4000	4120		103	80 - 120	P
Barium	ug/L	1000	882		88	80 - 120	P
Cadmium	ug/L	1000	955		96	80 - 120	P
Chromium	ug/L	2000	2140		107	80 - 120	P
Lead	ug/L	5000	4890		98	80 - 120	P
Selenium	ug/L	10000	9950		100	80 - 120	P
Silver	ug/L	380	384		101	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

ENV-103-SB01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135035 **Lab Sample ID :** Q1514-06L **SDG No.:** Q1488

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	460	J	511	J	11		P
Cadmium	1.36	J	150	U	100.0		P
Chromium	7.21	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134958

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0959	HG
S0.2	S0.2	1	1001	HG
S2.5	S2.5	1	1003	HG
S5	S5	1	1006	HG
S7.5	S7.5	1	1013	HG
S10	S10	1	1019	HG
ICV35	ICV35	1	1022	HG
ICB35	ICB35	1	1026	HG
CCV75	CCV75	1	1034	HG
CCB75	CCB75	1	1039	HG
CRA	CRA	1	1041	HG
PB167033BL	PB167033BL	1	1053	HG
PB167033BS	PB167033BS	1	1056	HG
Q1488-02	ENV-101-SB01	1	1058	HG
Q1488-04	ENV-101-SB02	1	1100	HG
Q1488-06	ENV-102-SB01	1	1102	HG
Q1488-08	ENV-102-SB02	1	1105	HG
Q1488-10	ENV-104-SB01	1	1107	HG
CCV76	CCV76	1	1109	HG
CCB76	CCB76	1	1111	HG
Q1488-12	ENV-104-SB02	1	1114	HG
Q1514-06DUP	ENV-103-SB01DUP	1	1141	HG
CCV77	CCV77	1	1148	HG
CCB77	CCB77	1	1153	HG
Q1514-06MS	ENV-103-SB01MS	1	1155	HG
Q1514-06MSD	ENV-103-SB01MSD	1	1157	HG
CCV78	CCV78	1	1218	HG
CCB78	CCB78	1	1226	HG
CCV79	CCV79	1	1245	HG
CCB79	CCB79	1	1247	HG
PB167020TB	PB167020TB	1	1249	HG
Q1514-06L	ENV-103-SB01L	5	1255	HG
CCV80	CCV80	1	1310	HG
CCB80	CCB80	1	1312	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1024	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1028	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1032	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1036	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1041	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1050	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1054	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1058	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1102	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1106	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1111	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1129	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1134	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1219	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1223	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1408	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1413	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-02	ENV-101-SB01	1	1438	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1500	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1504	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1550	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1554	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1642	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1646	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1734	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1738	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1826	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1830	Ag,As,Ba,Cd,Cr,Pb,Se
PB167020TB	PB167020TB	1	1855	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	1914	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	1918	Ag,As,Ba,Cd,Cr,Pb,Se
CCV11	CCV11	1	1926	Ag,As,Ba,Cd,Cr,Pb,Se
CCB11	CCB11	1	1931	Ag,As,Ba,Cd,Cr,Pb,Se
CCV12	CCV12	1	1939	Ag,As,Ba,Cd,Cr,Pb,Se
CCB12	CCB12	1	1949	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.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB135011

Start date: 03/12/2025 **End date:** 03/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1027	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1031	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1035	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1039	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1044	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1048	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1052	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1056	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1101	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1105	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1109	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1114	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1129	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1134	Ag,As,Ba,Cd,Cr,Pb,Se
PB167037BL	PB167037BL	1	1138	Ag,As,Ba,Cd,Cr,Pb,Se
PB167037BS	PB167037BS	1	1142	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1220	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1224	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1428	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1525	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1625	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1630	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1730	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1827	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1849	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1853	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.:** Q1488 **Sas no.:** Q1488 **Sdg no.:** Q1488

Instrument id number: **Method:** **Run number:** LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1146	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1150	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1154	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1159	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1203	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1207	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1213	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1217	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1221	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1225	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1230	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1253	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1258	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-04	ENV-101-SB02	1	1331	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-06	ENV-102-SB01	1	1335	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-08	ENV-102-SB02	1	1340	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1349	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1354	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-10	ENV-104-SB01	1	1358	Ag,As,Ba,Cd,Cr,Pb,Se
Q1488-12	ENV-104-SB02	1	1402	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1440	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1448	Ag,As,Ba,Cd,Cr,Pb,Se
Q1514-06DUP	ENV-103-SB01DUP	1	1515	Ag,As,Ba,Cd,Cr,Pb,Se
Q1514-06L	ENV-103-SB01L	5	1519	Ag,As,Ba,Cd,Cr,Pb,Se
Q1514-06MS	ENV-103-SB01MS	1	1523	Ag,As,Ba,Cd,Cr,Pb,Se
Q1514-06MSD	ENV-103-SB01MSD	1	1528	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1538	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1542	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1721	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1812	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1835	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1903	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1912	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1921	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1488 **SAS No.:** Q1488

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

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-02	**ENV-101-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/11/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-04	**ENV-101-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-06	**ENV-102-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-08	**ENV-102-SB02**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	
			TCLP Mercury	7470A		03/07/25	03/10/25	
Q1488-10	**ENV-104-SB01**	**TCLP**			**03/04/25**			**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25	

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LAB CHRONICLE

			TCLP Mercury	7470A		03/07/25	03/10/25
Q1488-12	**ENV-104-SB02**	**TCLP**			**03/04/25**		**03/04/25**
			TCLP ICP Metals	6010D		03/10/25	03/13/25
			TCLP Mercury	7470A		03/07/25	03/10/25

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167033**						
PB167020TB	PB167020TB	MB	WATER	03/07/2025	3.0	30.0	
PB167033BL	PB167033BL	MB	WATER	03/07/2025	30.0	30.0	
PB167033BS	PB167033BS	LCS	WATER	03/07/2025	30.0	30.0	
Q1488-02	ENV-101-SB01	SAM	WATER	03/07/2025	3.0	30.0	
Q1488-04	ENV-101-SB02	SAM	WATER	03/07/2025	3.0	30.0	
Q1488-06	ENV-102-SB01	SAM	WATER	03/07/2025	3.0	30.0	
Q1488-08	ENV-102-SB02	SAM	WATER	03/07/2025	3.0	30.0	
Q1488-10	ENV-104-SB01	SAM	WATER	03/07/2025	3.0	30.0	
Q1488-12	ENV-104-SB02	SAM	WATER	03/07/2025	3.0	30.0	
Q1514-06DUP	ENV-103-SB01DUP	DUP	WATER	03/07/2025	3.0	30.0	
Q1514-06MS	ENV-103-SB01MS	MS	WATER	03/07/2025	3.0	30.0	
Q1514-06MSD	ENV-103-SB01MSD	MSD	WATER	03/07/2025	3.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1488 **SAS No.:** Q1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167037**						
PB167020TB	PB167020TB	MB	WATER	03/10/2025	5.0	25.0	
PB167037BL	PB167037BL	MB	WATER	03/10/2025	5.0	25.0	
PB167037BS	PB167037BS	LCS	WATER	03/10/2025	5.0	25.0	
Q1488-02	ENV-101-SB01	SAM	WATER	03/10/2025	5.0	25.0	
Q1488-04	ENV-101-SB02	SAM	WATER	03/10/2025	5.0	25.0	
Q1488-06	ENV-102-SB01	SAM	WATER	03/10/2025	5.0	25.0	
Q1488-08	ENV-102-SB02	SAM	WATER	03/10/2025	5.0	25.0	
Q1488-10	ENV-104-SB01	SAM	WATER	03/10/2025	5.0	25.0	
Q1488-12	ENV-104-SB02	SAM	WATER	03/10/2025	5.0	25.0	
Q1514-06DUP	ENV-103-SB01DUP	DUP	WATER	03/10/2025	5.0	25.0	
Q1514-06MS	ENV-103-SB01MS	MS	WATER	03/10/2025	5.0	25.0	
Q1514-06MSD	ENV-103-SB01MSD	MSD	WATER	03/10/2025	5.0	25.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134958

Review By	Mohan	Review On	3/11/2025 9:32:51 AM
Supervise By	jaswal	Supervise On	3/11/2025 9:38:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP84793,MP84794,MP84795,MP84796,MP84797,MP84798
ICV Standard	MP84799
CCV Standard	MP84801
ICSA Standard	
CRI Standard	MP84803
LCS Standard	
Chk Standard	MP84800,MP84802,MP84804,MP84826

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/10/25 09:59		Mohan	OK
2	S0.2	S0.2	CAL2	03/10/25 10:01		Mohan	OK
3	S2.5	S2.5	CAL3	03/10/25 10:03		Mohan	OK
4	S5	S5	CAL4	03/10/25 10:06		Mohan	OK
5	S7.5	S7.5	CAL5	03/10/25 10:13		Mohan	OK
6	S10	S10	CAL6	03/10/25 10:19		Mohan	OK
7	ICV35	ICV35	ICV	03/10/25 10:22		Mohan	OK
8	ICB35	ICB35	ICB	03/10/25 10:26		Mohan	OK
9	CCV75	CCV75	CCV	03/10/25 10:34		Mohan	OK
10	CCB75	CCB75	CCB	03/10/25 10:39		Mohan	OK
11	CRA	CRA	CRDL	03/10/25 10:41		Mohan	OK
12	HighStd	HighStd	HIGH STD	03/10/25 10:43		Mohan	OK
13	ChkStd	ChkStd	SAM	03/10/25 10:46		Mohan	OK
14	PB167033BL	PB167033BL	MB	03/10/25 10:53		Mohan	OK
15	PB167033BS	PB167033BS	LCS	03/10/25 10:56		Mohan	OK
16	Q1488-02	ENV-101-SB01	SAM	03/10/25 10:58		Mohan	OK
17	Q1488-04	ENV-101-SB02	SAM	03/10/25 11:00		Mohan	OK
18	Q1488-06	ENV-102-SB01	SAM	03/10/25 11:02		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134958

Review By	Mohan	Review On	3/11/2025 9:32:51 AM
Supervise By	jaswal	Supervise On	3/11/2025 9:38:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP84793,MP84794,MP84795,MP84796,MP84797,MP84798
ICV Standard	MP84799
CCV Standard	MP84801
ICSA Standard	
CRI Standard	MP84803
LCS Standard	
Chk Standard	MP84800,MP84802,MP84804,MP84826

19	Q1488-08	ENV-102-SB02	SAM	03/10/25 11:05		Mohan	OK
20	Q1488-10	ENV-104-SB01	SAM	03/10/25 11:07		Mohan	OK
21	CCV76	CCV76	CCV	03/10/25 11:09		Mohan	OK
22	CCB76	CCB76	CCB	03/10/25 11:11		Mohan	OK
23	Q1488-12	ENV-104-SB02	SAM	03/10/25 11:14		Mohan	OK
24	Q1490-02	CLAY-SLUDGE-DRUI	SAM	03/10/25 11:16		Mohan	OK
25	Q1494-04	ASPHALT-SOIL	SAM	03/10/25 11:18		Mohan	OK
26	Q1494-06	SOIL	SAM	03/10/25 11:20		Mohan	OK
27	Q1494-08	SOIL-COMP	SAM	03/10/25 11:23		Mohan	OK
28	Q1510-01	FMC-25-0001-0005	SAM	03/10/25 11:25		Mohan	OK
29	Q1514-02	ENV-105-SB01	SAM	03/10/25 11:27		Mohan	OK
30	Q1514-04	ENV-105-SB02	SAM	03/10/25 11:30		Mohan	OK
31	Q1514-06	ENV-103-SB01	SAM	03/10/25 11:39		Mohan	OK
32	Q1514-06DUP	ENV-103-SB01DUP	DUP	03/10/25 11:41		Mohan	OK
33	CCV77	CCV77	CCV	03/10/25 11:48		Mohan	OK
34	CCB77	CCB77	CCB	03/10/25 11:53		Mohan	OK
35	Q1514-06MS	ENV-103-SB01MS	MS	03/10/25 11:55		Mohan	OK
36	Q1514-06MSD	ENV-103-SB01MSD	MSD	03/10/25 11:57		Mohan	OK
37	PB167034BL	PB167034BL	MB	03/10/25 11:59		Mohan	OK
38	PB167034BS	PB167034BS	LCS	03/10/25 12:02		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134958

Review By	Mohan	Review On	3/11/2025 9:32:51 AM
Supervise By	jaswal	Supervise On	3/11/2025 9:38:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP84793,MP84794,MP84795,MP84796,MP84797,MP84798
ICV Standard	MP84799
CCV Standard	MP84801
ICSA Standard	
CRI Standard	MP84803
LCS Standard	
Chk Standard	MP84800,MP84802,MP84804,MP84826

39	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/10/25 12:04		Mohan	OK
40	Q1478-01DUP	IDW-AQ-MW-19B-CO	DUP	03/10/25 12:06		Mohan	OK
41	Q1478-01MS	IDW-AQ-MW-19B-CO	MS	03/10/25 12:09		Mohan	OK
42	Q1478-01MSD	IDW-AQ-MW-19B-CO	MSD	03/10/25 12:11		Mohan	OK
43	Q1478-03	IDW-AQ-IW-01-COMP	SAM	03/10/25 12:13		Mohan	OK
44	Q1478-05	IDW-AQ-IW-02-COMP	SAM	03/10/25 12:15		Mohan	OK
45	CCV78	CCV78	CCV	03/10/25 12:18		Mohan	OK
46	CCB78	CCB78	CCB	03/10/25 12:26		Mohan	OK
47	Q1478-07	IDW-AQ-IW-03-COMP	SAM	03/10/25 12:28		Mohan	OK
48	Q1494-01	PURGE-WATER	SAM	03/10/25 12:30		Mohan	OK
49	Q1514-07	ENV-105-GW01	SAM	03/10/25 12:32	High	Mohan	Dilution
50	Q1514-08	ENV-103-GW01	SAM	03/10/25 12:35		Mohan	OK
51	Q1514-09	FB03062025	SAM	03/10/25 12:38		Mohan	OK
52	Q1516-03	GAS-AUD-25-0026	SAM	03/10/25 12:40		Mohan	OK
53	Q1517-01	MOO-25-0062	SAM	03/10/25 12:42		Mohan	OK
54	CCV79	CCV79	CCV	03/10/25 12:45		Mohan	OK
55	CCB79	CCB79	CCB	03/10/25 12:47		Mohan	OK
56	PB167020TB	PB167020TB	MB	03/10/25 12:49		Mohan	OK
57	Q1514-06L	ENV-103-SB01L	SD	03/10/25 12:55		Mohan	OK
58	Q1514-06A	ENV-103-SB01A	PS	03/10/25 12:57		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134958

Review By	Mohan	Review On	3/11/2025 9:32:51 AM
Supervise By	jaswal	Supervise On	3/11/2025 9:38:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP84793,MP84794,MP84795,MP84796,MP84797,MP84798
ICV Standard	MP84799
CCV Standard	MP84801
ICSA Standard	
CRI Standard	MP84803
LCS Standard	
Chk Standard	MP84800,MP84802,MP84804,MP84826

59	Q1478-01L	IDW-AQ-MW-19B-CO	SD	03/10/25 12:59		Mohan	OK
60	Q1478-01A	IDW-AQ-MW-19B-CO	PS	03/10/25 13:05		Mohan	OK
61	Q1514-07DL	ENV-105-GW01DL	SAM	03/10/25 13:08	Report 10X	Mohan	Confirms
62	CCV80	CCV80	CCV	03/10/25 13:10		Mohan	OK
63	CCB80	CCB80	CCB	03/10/25 13:12		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/11/25 10:19		Kareem	OK
2	S1	S1	CAL2	03/11/25 10:24		Kareem	OK
3	S2	S2	CAL3	03/11/25 10:28		Kareem	OK
4	S3	S3	CAL4	03/11/25 10:32		Kareem	OK
5	S4	S4	CAL5	03/11/25 10:36		Kareem	OK
6	S5	S5	CAL6	03/11/25 10:41		Kareem	OK
7	ICV01	ICV01	ICV	03/11/25 10:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/11/25 10:54		Kareem	OK
9	ICB01	ICB01	ICB	03/11/25 10:58		Kareem	OK
10	CRI01	CRI01	CRDL	03/11/25 11:02		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/11/25 11:06		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/11/25 11:11		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/11/25 11:15		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/11/25 11:19		Kareem	OK
15	CCV01	CCV01	CCV	03/11/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/11/25 11:34		Kareem	OK
17	Q1421-04	P001-CLAY-CF01-01	SAM	03/11/25 11:38		Kareem	OK
18	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/11/25 11:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1421-04L	P001-CLAY-CF01-01L	SD	03/11/25 11:46		Kareem	OK
20	Q1421-05	P001-CLAY-CF01-01M	MS	03/11/25 11:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	Q1421-06	P001-CLAY-CF01-01M	MSD	03/11/25 11:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
22	Q1421-04A	P001-CLAY-CF01-01A	PS	03/11/25 11:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	Q1490-01	MS	SAM	03/11/25 12:02		Kareem	OK
24	Q1490-02	MS	SAM	03/11/25 12:07		Kareem	OK
25	Q1494-03	ASPHALT-SOIL	SAM	03/11/25 12:11		Kareem	OK
26	Q1494-05	SOIL	SAM	03/11/25 12:15		Kareem	OK
27	CCV02	CCV02	CCV	03/11/25 12:19		Kareem	OK
28	CCB02	CCB02	CCB	03/11/25 12:23		Kareem	OK
29	Q1494-07	SOIL-COMP	SAM	03/11/25 12:28		Kareem	OK
30	Q1494-07DUP	SOIL-COMPDUP	DUP	03/11/25 12:32		Kareem	OK
31	Q1494-07L	SOIL-COMPL	SD	03/11/25 12:36		Kareem	OK
32	Q1494-07MS	SOIL-COMPMS	MS	03/11/25 12:40	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
33	Q1494-07MSD	SOIL-COMPMSD	MSD	03/11/25 12:44	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

34	Q1494-07ARE	SOIL-COMPA	PS	03/11/25 12:48	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
35	Q1494-04	ASPHALT-SOIL	SAM	03/11/25 12:52		Kareem	OK
36	Q1494-06	SOIL	SAM	03/11/25 12:57		Kareem	OK
37	Q1494-08	SOIL-COMP	SAM	03/11/25 13:01		Kareem	OK
38	PB167004BL	PB167004BL	MB	03/11/25 13:05		Kareem	OK
39	CCV03	CCV03	CCV	03/11/25 13:10		Kareem	OK
40	CCB03	CCB03	CCB	03/11/25 13:14		Kareem	OK
41	PB167004BS	PB167004BS	LCS	03/11/25 13:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
42	Q1494-01	PURGE-WATER	SAM	03/11/25 13:22		Kareem	OK
43	Q1494-01DUP	PURGE-WATERDUP	DUP	03/11/25 13:26		Kareem	OK
44	Q1494-01L	PURGE-WATERL	SD	03/11/25 13:31		Kareem	OK
45	Q1494-01MS	PURGE-WATERMS	MS	03/11/25 13:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	Q1494-01MSD	PURGE-WATERMSD	MSD	03/11/25 13:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
47	Q1494-01A	PURGE-WATERA	PS	03/11/25 13:43	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	PB167002BL	PB167002BL	MB	03/11/25 13:55		Kareem	OK

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ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

49	PB167002BS	PB167002BS	LCS	03/11/25 14:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
50	Q1499-01	402	SAM	03/11/25 14:04		Kareem	OK
51	CCV04	CCV04	CCV	03/11/25 14:08		Kareem	OK
52	CCB04	CCB04	CCB	03/11/25 14:13		Kareem	OK
53	Q1499-01DUP	402DUP	DUP	03/11/25 14:17		Kareem	OK
54	Q1499-01L	402L	SD	03/11/25 14:21		Kareem	OK
55	Q1499-01MS	402MS	MS	03/11/25 14:26	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	Q1499-01MSD	402MSD	MSD	03/11/25 14:30	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
57	Q1499-01A	402A	PS	03/11/25 14:34	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
58	Q1488-02	ENV-101-SB01	SAM	03/11/25 14:38		Kareem	OK
59	Q1415-06	B-173-GW01	SAM	03/11/25 14:43		Kareem	OK
60	Q1415-06DUP	B-173-GW01DUP	DUP	03/11/25 14:47		Kareem	OK
61	Q1415-06L	B-173-GW01L	SD	03/11/25 14:52		Kareem	OK
62	Q1415-06MS	B-173-GW01MS	MS	03/11/25 14:56	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	CCV05	CCV05	CCV	03/11/25 15:00		Kareem	OK
64	CCB05	CCB05	CCB	03/11/25 15:04		Kareem	OK

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CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

65	Q1415-06MSD	B-173-GW01MSD	MSD	03/11/25 15:09	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
66	Q1415-06A	B-173-GW01A	PS	03/11/25 15:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	Q1534-01	OR-636-COMP-16	SAM	03/11/25 15:17		Kareem	OK
68	Q1534-07	OR-636-COMP-17	SAM	03/11/25 15:21		Kareem	OK
69	Q1534-13	OR-636-COMP-18	SAM	03/11/25 15:25		Kareem	OK
70	Q1534-19	OR-636-COMP-19	SAM	03/11/25 15:29		Kareem	OK
71	Q1535-01	SU-03-03102025	SAM	03/11/25 15:33		Kareem	OK
72	Q1535-01DUP	SU-03-03102025DUP	DUP	03/11/25 15:37		Kareem	OK
73	Q1535-01L	SU-03-03102025L	SD	03/11/25 15:41		Kareem	OK
74	Q1535-01MS	SU-03-03102025MS	MS	03/11/25 15:46	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	CCV06	CCV06	CCV	03/11/25 15:50		Kareem	OK
76	CCB06	CCB06	CCB	03/11/25 15:54		Kareem	OK
77	Q1535-01MSD	SU-03-03102025MSD	MSD	03/11/25 16:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
78	Q1537-01	COMP-1	SAM	03/11/25 16:08		Kareem	OK
79	Q1537-02	COMP-2	SAM	03/11/25 16:12		Kareem	OK
80	Q1537-03	COMP-3	SAM	03/11/25 16:17		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

81	PB167081BL	PB167081BL	MB	03/11/25 16:21		Kareem	OK
82	PB167081BS	PB167081BS	LCS	03/11/25 16:25	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
83	Q1541-01	205703	SAM	03/11/25 16:29		Kareem	OK
84	Q1541-01DUP	205703DUP	DUP	03/11/25 16:34		Kareem	OK
85	Q1541-01L	205703L	SD	03/11/25 16:38		Kareem	OK
86	CCV07	CCV07	CCV	03/11/25 16:42		Kareem	OK
87	CCB07	CCB07	CCB	03/11/25 16:46		Kareem	OK
88	Q1541-01MS	205703MS	MS	03/11/25 16:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1541-01MSD	205703MSD	MSD	03/11/25 16:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1541-01A	205703A	PS	03/11/25 16:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
91	PB167084BL	PB167084BL	MB	03/11/25 17:03		Kareem	OK
92	PB167084BS	PB167084BS	LCS	03/11/25 17:07	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	PB167049TB	PB167049TB	MB	03/11/25 17:12		Kareem	OK
94	Q1523-03	WC-A1-01-C	SAM	03/11/25 17:16		Kareem	OK
95	Q1523-06	WC-A2-02-C	SAM	03/11/25 17:20		Kareem	OK
96	Q1534-06	OR-636-COMP-16	SAM	03/11/25 17:25		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

97	Q1534-12	OR-636-COMP-17	SAM	03/11/25 17:29		Kareem	OK
98	CCV08	CCV08	CCV	03/11/25 17:34		Kareem	OK
99	CCB08	CCB08	CCB	03/11/25 17:38		Kareem	OK
100	Q1534-18	OR-636-COMP-18	SAM	03/11/25 17:42		Kareem	OK
101	Q1534-24	OR-636-COMP-19	SAM	03/11/25 17:47		Kareem	OK
102	Q1537-05	COMP-1	SAM	03/11/25 17:51		Kareem	OK
103	Q1537-06	COMP-2	SAM	03/11/25 17:55		Kareem	OK
104	Q1537-07	COMP-3	SAM	03/11/25 18:00		Kareem	OK
105	Q1537-07DUP	COMP-3DUP	DUP	03/11/25 18:04		Kareem	OK
106	Q1537-07L	COMP-3L	SD	03/11/25 18:09		Kareem	OK
107	Q1537-07MS	COMP-3MS	MS	03/11/25 18:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
108	Q1537-07MSD	COMP-3MSD	MSD	03/11/25 18:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
109	Q1537-07A	COMP-3A	PS	03/11/25 18:22	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
110	CCV09	CCV09	CCV	03/11/25 18:26		Kareem	OK
111	CCB09	CCB09	CCB	03/11/25 18:30		Kareem	OK
112	Q1535-01A	SU-03-03102025A	PS	03/11/25 18:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

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ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

113	Q1494-07A	SOIL-COMPA	PS	03/11/25 18:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
114	PB167092BL	PB167092BL	MB	03/11/25 18:43		Kareem	OK
115	PB167092BS	PB167092BS	LCS	03/11/25 18:47	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
116	P3652-03	P3652-01 - LIVONIA-S	SAM	03/11/25 18:51	NOT USE	Kareem	Not Ok
117	PB167020TB	PB167020TB	MB	03/11/25 18:55		Kareem	OK
118	LR1	LR1	HIGH STD	03/11/25 18:59		Kareem	OK
119	LR2	LR2	HIGH STD	03/11/25 19:04		Kareem	OK
120	CCV10	CCV10	CCV	03/11/25 19:14		Kareem	OK
121	CCB10	CCB10	CCB	03/11/25 19:18		Kareem	OK
122	Q1538-01L	BELL-25-0004L	SD	03/11/25 19:22	Method 6020B Sample in login	Kareem	Not Ok
123	CCV11	CCV11	CCV	03/11/25 19:26		Kareem	OK
124	CCB11	CCB11	CCB	03/11/25 19:31		Kareem	OK
125	Q1538-01	BELL-25-0004	SAM	03/11/25 19:35	Method 6020B Sample in login	Kareem	Not Ok
126	CCV12	CCV12	CCV	03/11/25 19:39		Kareem	OK
127	CCB12	CCB12	CCB	03/11/25 19:49		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/12/25 10:27		Kareem	OK
2	S1	S1	CAL2	03/12/25 10:31		Kareem	OK
3	S2	S2	CAL3	03/12/25 10:35		Kareem	OK
4	S3	S3	CAL4	03/12/25 10:39		Kareem	OK
5	S4	S4	CAL5	03/12/25 10:44		Kareem	OK
6	S5	S5	CAL6	03/12/25 10:48		Kareem	OK
7	ICV01	ICV01	ICV	03/12/25 10:52	ICV As,Be,Tl,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	03/12/25 10:56		Kareem	OK
9	ICB01	ICB01	ICB	03/12/25 11:01		Kareem	OK
10	CRI01	CRI01	CRDL	03/12/25 11:05		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/12/25 11:09		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/12/25 11:14		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/12/25 11:21		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/12/25 11:25		Kareem	OK
15	CCV01	CCV01	CCV	03/12/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/12/25 11:34		Kareem	OK
17	PB167037BL	PB167037BL	MB	03/12/25 11:38		Kareem	OK
18	PB167037BS	PB167037BS	LCS	03/12/25 11:42	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	PB166981BL	PB166981BL	MB	03/12/25 11:46		Kareem	OK
20	PB166981BS	PB166981BS	LCS	03/12/25 11:51	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	PB167038BL	PB167038BL	MB	03/12/25 11:55		Kareem	OK
22	PB167038BS	PB167038BS	LCS	03/12/25 11:59	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	PB167024BL	PB167024BL	MB	03/12/25 12:03		Kareem	OK
24	PB167024BS	PB167024BS	LCS	03/12/25 12:07	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
25	PB167100BL	PB167100BL	MB	03/12/25 12:11		Kareem	OK
26	PB167100BS	PB167100BS	LCS	03/12/25 12:16	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
27	CCV02	CCV02	CCV	03/12/25 12:20		Kareem	OK
28	CCB02	CCB02	CCB	03/12/25 12:24		Kareem	OK
29	PB166977BL	PB166977BL	MB	03/12/25 12:28		Kareem	OK
30	PB166977BS	PB166977BS	LCS	03/12/25 12:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
31	PB166963BL	PB166963BL	MB	03/12/25 12:37	Ba fail LCS	Kareem	Not Ok
32	PB166963BS	PB166963BS	LCS	03/12/25 12:41	Ba fail LCS	Kareem	Not Ok
33	Q1466-05	CITY WATER	SAM	03/12/25 12:49		Kareem	OK
34	Q1466-05DUP	CITY WATERDUP	DUP	03/12/25 12:53		Kareem	OK

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CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

35	Q1466-05L	CITY WATERL	SD	03/12/25 12:58		Kareem	OK
36	Q1466-05MS	CITY WATERMS	MS	03/12/25 13:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
37	Q1466-05MSD	CITY WATERMSD	MSD	03/12/25 13:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
38	CCV03	CCV03	CCV	03/12/25 13:10		Kareem	OK
39	CCB03	CCB03	CCB	03/12/25 13:14		Kareem	OK
40	Q1466-05A	CITY WATERA	PS	03/12/25 13:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
41	Q1507-01	50-MIDDLESEX-AVE	SAM	03/12/25 13:22		Kareem	OK
42	Q1508-01	RBR251372	SAM	03/12/25 13:27		Kareem	OK
43	Q1510-01	FMC-25-0001-0005	SAM	03/12/25 13:31		Kareem	OK
44	PB167098BL	PB167098BL	MB	03/12/25 13:59		Kareem	OK
45	PB167098BS	PB167098BS	LCS	03/12/25 14:03	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	PB167099BL	PB167099BL	MB	03/12/25 14:07		Kareem	OK
47	PB167099BS	PB167099BS	LCS	03/12/25 14:12	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	Q1515-01	AU-06-030625	SAM	03/12/25 14:16		Kareem	OK
49	Q1515-01DUP	AU-06-030625DUP	DUP	03/12/25 14:20		Kareem	OK
50	CCV04	CCV04	CCV	03/12/25 14:24		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

51	CCB04	CCB04	CCB	03/12/25 14:28		Kareem	OK
52	Q1540-01	OU4-CF-15R-031025	SAM	03/12/25 14:32		Kareem	OK
53	Q1540-01DUP	OU4-CF-15R-031025	DUP	03/12/25 14:37		Kareem	OK
54	Q1540-01L	OU4-CF-15R-031025	SD	03/12/25 14:41		Kareem	OK
55	Q1540-01A	OU4-CF-15R-031025	PS	03/12/25 14:58	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	PB167088TB	PB167088TB	MB	03/12/25 15:02		Kareem	OK
57	Q1545-01	BU-02-031125	SAM	03/12/25 15:06		Kareem	OK
58	Q1545-01DUP	BU-02-031125DUP	DUP	03/12/25 15:11		Kareem	OK
59	Q1545-01L	BU-02-031125L	SD	03/12/25 15:15		Kareem	OK
60	CCV05	CCV05	CCV	03/12/25 15:25		Kareem	OK
61	CCB05	CCB05	CCB	03/12/25 15:29		Kareem	OK
62	Q1545-01MS	BU-02-031125MS	MS	03/12/25 15:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1545-01MSD	BU-02-031125MSD	MSD	03/12/25 15:37	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1545-01A	BU-02-031125A	PS	03/12/25 15:41	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	Q1547-01	OR-620-JB-COMP-01	SAM	03/12/25 15:45		Kareem	OK
66	Q1547-06	OR-620-JB-COMP-02	SAM	03/12/25 15:49		Kareem	OK

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

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Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

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ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

67	Q1549-01	72-11978	SAM	03/12/25 15:54		Kareem	OK
68	Q1515-01L	AU-06-030625L	SD	03/12/25 15:58		Kareem	OK
69	Q1515-01MS	AU-06-030625MS	MS	03/12/25 16:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
70	Q1515-01MSD	AU-06-030625MSD	MSD	03/12/25 16:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
71	Q1515-01A	AU-06-030625A	PS	03/12/25 16:10	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
72	CCV06	CCV06	CCV	03/12/25 16:25		Kareem	OK
73	CCB06	CCB06	CCB	03/12/25 16:30		Kareem	OK
74	Q1540-01MS	OU4-CF-15R-031025I	MS	03/12/25 16:34	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	Q1540-01MSD	OU4-CF-15R-031025I	MSD	03/12/25 16:38	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
76	Q1516-03	GAS-AUD-25-0026	SAM	03/12/25 16:42		Kareem	OK
77	Q1519-01	WATER TREATMENT	SAM	03/12/25 16:47		Kareem	OK
78	LR1	LR1	HIGH STD	03/12/25 16:53		Kareem	OK
79	LR2	LR2	HIGH STD	03/12/25 16:58		Kareem	OK
80	Q1517-01DL	MOO-25-0062DL	SAM	03/12/25 17:02		Kareem	OK
81	Q1522-02	TW-WTS-04	SAM	03/12/25 17:07		Kareem	OK
82	Q1522-02DUP	TW-WTS-04DUP	DUP	03/12/25 17:11		Kareem	OK

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CRI Standard	MP84846
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Chk Standard	MP84649,MP84650

83	Q1522-02L	TW-WTS-04L	SD	03/12/25 17:16		Kareem	OK
84	CCV07	CCV07	CCV	03/12/25 17:25		Kareem	OK
85	CCB07	CCB07	CCB	03/12/25 17:30		Kareem	OK
86	Q1522-02MS	TW-WTS-04MS	MS	03/12/25 17:35	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
87	Q1522-02MSD	TW-WTS-04MSD	MSD	03/12/25 17:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
88	Q1522-02A	TW-WTS-04A	PS	03/12/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1478-07	IDW-AQ-IW-03-COMP	SAM	03/12/25 17:47		Kareem	OK
90	Q1478-07DUP	IDW-AQ-IW-03-COMP	DUP	03/12/25 17:52		Kareem	OK
91	Q1478-07L	IDW-AQ-IW-03-COMP	SD	03/12/25 17:56		Kareem	OK
92	Q1478-07MS	IDW-AQ-IW-03-COMP	MS	03/12/25 18:00	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	Q1478-07MSD	IDW-AQ-IW-03-COMP	MSD	03/12/25 18:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
94	Q1478-07A	IDW-AQ-IW-03-COMP	PS	03/12/25 18:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/12/25 18:13		Kareem	OK
96	CCV08	CCV08	CCV	03/12/25 18:23		Kareem	OK
97	CCB08	CCB08	CCB	03/12/25 18:27		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

98	Q1478-03	IDW-AQ-IW-01-COMP	SAM	03/12/25 18:31		Kareem	OK
99	Q1478-05	IDW-AQ-IW-02-COMP	SAM	03/12/25 18:36		Kareem	OK
100	Q1477-01	RW7-SP100-2025022	SAM	03/12/25 18:40		Kareem	OK
101	Q1477-04	RW7-SP303-2025022	SAM	03/12/25 18:44		Kareem	OK
102	CCV09	CCV09	CCV	03/12/25 18:49		Kareem	OK
103	CCB09	CCB09	CCB	03/12/25 18:53		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/13/25 11:42		Kareem	OK
2	S1	S1	CAL2	03/13/25 11:46		Kareem	OK
3	S2	S2	CAL3	03/13/25 11:50		Kareem	OK
4	S3	S3	CAL4	03/13/25 11:54		Kareem	OK
5	S4	S4	CAL5	03/13/25 11:59		Kareem	OK
6	S5	S5	CAL6	03/13/25 12:03		Kareem	OK
7	ICV01	ICV01	ICV	03/13/25 12:07		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/13/25 12:13		Kareem	OK
9	ICB01	ICB01	ICB	03/13/25 12:17		Kareem	OK
10	CRI01	CRI01	CRDL	03/13/25 12:21		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/13/25 12:25		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/13/25 12:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/13/25 12:34		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/13/25 12:38		Kareem	OK
15	CCV01	CCV01	CCV	03/13/25 12:53		Kareem	OK
16	CCB01	CCB01	CCB	03/13/25 12:58		Kareem	OK
17	PB166963BL	PB166963BL	MB	03/13/25 13:02		Kareem	OK
18	PB166963BS	PB166963BS	LCS	03/13/25 13:06		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

19	PB167116BL	PB167116BL	MB	03/13/25 13:10		Kareem	OK
20	PB167116BS	PB167116BS	LCS	03/13/25 13:15		Kareem	OK
21	Q1485-01	DN-B-41	SAM	03/13/25 13:19		Kareem	OK
22	Q1486-01	DN-B-40	SAM	03/13/25 13:23		Kareem	OK
23	Q1487-01	DN-B-42	SAM	03/13/25 13:27		Kareem	OK
24	Q1488-04	ENV-101-SB02	SAM	03/13/25 13:31		Kareem	OK
25	Q1488-06	ENV-102-SB01	SAM	03/13/25 13:35		Kareem	OK
26	Q1488-08	ENV-102-SB02	SAM	03/13/25 13:40		Kareem	OK
27	CCV02	CCV02	CCV	03/13/25 13:49		Kareem	OK
28	CCB02	CCB02	CCB	03/13/25 13:54		Kareem	OK
29	Q1488-10	ENV-104-SB01	SAM	03/13/25 13:58		Kareem	OK
30	Q1488-12	ENV-104-SB02	SAM	03/13/25 14:02		Kareem	OK
31	Q1488-14	ENV-104-GW01	SAM	03/13/25 14:07		Kareem	OK
32	Q1488-01	ENV-101-SB01	SAM	03/13/25 14:11		Kareem	OK
33	Q1488-03	ENV-101-SB02	SAM	03/13/25 14:15		Kareem	OK
34	Q1488-05	ENV-102-SB01	SAM	03/13/25 14:19		Kareem	OK
35	Q1488-07	ENV-102-SB02	SAM	03/13/25 14:23		Kareem	OK
36	Q1488-09	ENV-104-SB01	SAM	03/13/25 14:27		Kareem	OK
37	Q1488-11	ENV-104-SB02	SAM	03/13/25 14:31		Kareem	OK
38	Q1491-02	COMP	SAM	03/13/25 14:35		Kareem	OK

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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

39	CCV03	CCV03	CCV	03/13/25 14:40		Kareem	OK
40	CCB03	CCB03	CCB	03/13/25 14:48		Kareem	OK
41	Q1495-01	001-WILLETS-PT-BL	SAM	03/13/25 14:53		Kareem	OK
42	Q1495-02	002-35TH-AVE(MAR)	SAM	03/13/25 14:57		Kareem	OK
43	Q1514-02	ENV-105-SB01	SAM	03/13/25 15:01		Kareem	OK
44	Q1514-04	ENV-105-SB02	SAM	03/13/25 15:06		Kareem	OK
45	Q1514-06	ENV-103-SB01	SAM	03/13/25 15:10		Kareem	OK
46	Q1514-06DUP	ENV-103-SB01DUP	DUP	03/13/25 15:15		Kareem	OK
47	Q1514-06L	ENV-103-SB01L	SD	03/13/25 15:19		Kareem	OK
48	Q1514-06MS	ENV-103-SB01MS	MS	03/13/25 15:23		Kareem	OK
49	Q1514-06MSD	ENV-103-SB01MSD	MSD	03/13/25 15:28		Kareem	OK
50	Q1514-06A	ENV-103-SB01A	PS	03/13/25 15:34		Kareem	OK
51	CCV04	CCV04	CCV	03/13/25 15:38		Kareem	OK
52	CCB04	CCB04	CCB	03/13/25 15:42		Kareem	OK
53	Q1514-08	ENV-103-GW01	SAM	03/13/25 15:46		Kareem	OK
54	Q1514-09	FB03062025	SAM	03/13/25 15:51		Kareem	OK
55	Q1514-01	ENV-105-SB01	SAM	03/13/25 15:55		Kareem	OK
56	Q1514-03	ENV-105-SB02	SAM	03/13/25 15:59		Kareem	OK
57	Q1514-05	ENV-103-SB01	SAM	03/13/25 16:03		Kareem	OK
58	Q1525-01	MW10	SAM	03/13/25 16:08	Mn high	Kareem	Dilution

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ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
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Chk Standard	MP84649,MP84650

59	Q1552-01	NB-418-JB-COMP-01	SAM	03/13/25 16:12		Kareem	OK
60	Q1553-01	RT2321	SAM	03/13/25 16:16		Kareem	OK
61	Q1556-01	OR-02-031225	SAM	03/13/25 16:20	MS,MSD fail for many parameters	Kareem	Not Ok
62	Q1556-01DUP	OR-02-031225DUP	DUP	03/13/25 16:24	MS,MSD fail for many parameters	Kareem	Not Ok
63	CCV05	CCV05	CCV	03/13/25 16:28		Kareem	OK
64	CCB05	CCB05	CCB	03/13/25 16:32		Kareem	OK
65	Q1556-01L	OR-02-031225L	SD	03/13/25 16:37	MS,MSD fail for many parameters	Kareem	Not Ok
66	Q1556-01MS	OR-02-031225MS	MS	03/13/25 16:41	Fail for many parameters	Kareem	Not Ok
67	Q1556-01MSD	OR-02-031225MSD	MSD	03/13/25 16:45	Fail for many parameters	Kareem	Not Ok
68	Q1556-01A	OR-02-031225A	PS	03/13/25 16:49	MS,MSD fail for many parameters	Kareem	Not Ok
69	LR1	LR1	HIGH STD	03/13/25 16:53		Kareem	OK
70	LR2	LR2	HIGH STD	03/13/25 16:58		Kareem	OK
71	PB167103TB	PB167103TB	MB	03/13/25 17:04		Kareem	OK
72	Q1547-05	OR-620-JB-COMP-01	SAM	03/13/25 17:08		Kareem	OK
73	Q1547-05DUP	OR-620-JB-COMP-01	DUP	03/13/25 17:13		Kareem	OK
74	Q1547-05L	OR-620-JB-COMP-01	SD	03/13/25 17:17		Kareem	OK
75	CCV06	CCV06	CCV	03/13/25 17:21		Kareem	OK
76	CCB06	CCB06	CCB	03/13/25 17:25		Kareem	OK
77	Q1547-05MS	OR-620-JB-COMP-01	MS	03/13/25 17:30		Kareem	OK

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78	Q1547-05MSD	OR-620-JB-COMP-01	MSD	03/13/25 17:34		Kareem	OK
79	Q1547-05A	OR-620-JB-COMP-01	PS	03/13/25 17:38		Kareem	OK
80	Q1547-10	OR-620-JB-COMP-02	SAM	03/13/25 17:42		Kareem	OK
81	Q1552-05	NB-418-JB-COMP-01	SAM	03/13/25 17:47		Kareem	OK
82	PB167117BL	PB167117BL	MB	03/13/25 17:51		Kareem	OK
83	PB167117BS	PB167117BS	LCS	03/13/25 17:55		Kareem	OK
84	Q1525-01DL	MW10DL	SAM	03/13/25 17:59	5X for Mn	Kareem	Confirms
85	Q1488-13DL	ENV-102-GW01DL	SAM	03/13/25 18:04	10X for Ag	Kareem	Confirms
86	Q1514-07DL	ENV-105-GW01DL	SAM	03/13/25 18:08	10X for Ca,Ag,Fe	Kareem	Confirms
87	CCV07	CCV07	CCV	03/13/25 18:12		Kareem	OK
88	CCB07	CCB07	CCB	03/13/25 18:35		Kareem	OK
89	Q1488-13	ENV-102-GW01	SAM	03/13/25 18:39	Ag oversaturated	Kareem	Dilution
90	Q1514-07	ENV-105-GW01	SAM	03/13/25 18:44	Ag oversaturated,Ca,Fe high	Kareem	Dilution
91	Q1488-13REDL	ENV-102-GW01RE	SAM	03/13/25 18:49	Not used	Kareem	Not Ok
92	CCV08	CCV08	CCV	03/13/25 18:53		Kareem	OK
93	CCB08	CCB08	CCB	03/13/25 19:03		Kareem	OK
94	Q1528-02	22725	SAM	03/13/25 19:07		Kareem	OK
95	CCV09	CCV09	CCV	03/13/25 19:12		Kareem	OK
96	CCB09	CCB09	CCB	03/13/25 19:21		Kareem	OK

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167033

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: 03/07/2025 **Time :** 14:40 **Temp :** 95 °C

End Digest Date: 03/07/2025 **Time :** 16:40 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84799
CCV	30mL	MP84801
CRA	30mL	MP84803
Blank Spike	0.48mL	MP84792
Matrix Spike	0.48mL	MP84792

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	MP84793
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84794
2.5 ppb	S2.5	30mL	MP84795
5.0 ppb	S5.0	30mL	MP84796
7.5 ppb	S7.5	30mL	MP84797
10.0 ppb	S10.0	30mL	MP84798
ICV	ICV	30mL	MP84799
ICB	ICB	30mL	MP84800
CCV	CCV	30mL	MP84801
CCB	CCB	30mL	MP84802
CRI	CRI	30mL	MP84803
CHK STD	CHK STD	30mL	MP84804

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/7/25 @ 17:10	DIG - DIG LAB	MB - MERCURY LAB
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167033

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167020TB	PB167020TB	3	30	<2	N/A	3-1
PB167033BL	PBW033	30	30	<2	N/A	2
PB167033BS	LCS033	30	30	<2	MP84792	3
Q1488-02	ENV-101-SB01	3	30	<2	N/A	4
Q1488-04	ENV-101-SB02	3	30	<2	N/A	5
Q1488-06	ENV-102-SB01	3	30	<2	N/A	6
Q1488-08	ENV-102-SB02	3	30	<2	N/A	7
Q1488-10	ENV-104-SB01	3	30	<2	N/A	8
Q1488-12	ENV-104-SB02	3	30	<2	N/A	9
Q1490-02	CLAY-SLUDGE-DRUMS	3	30	<2	N/A	10
Q1494-04	ASPHALT-SOIL	3	30	<2	N/A	11
Q1494-06	SOIL	3	30	<2	N/A	12
Q1494-08	SOIL-COMP	3	30	<2	N/A	13
Q1510-01	FMC-25-0001-0005	3	30	<2	N/A	14
Q1514-02	ENV-105-SB01	3	30	<2	N/A	15
Q1514-04	ENV-105-SB02	3	30	<2	N/A	16
Q1514-06	ENV-103-SB01	3	30	<2	N/A	17
Q1514-06DUP	ENV-103-SB01DUP	3	30	<2	N/A	18
Q1514-06MS	ENV-103-SB01MS	3	30	<2	MP84792	19
Q1514-06MSD	ENV-103-SB01MSD	3	30	<2	MP84792	20

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167037

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: 03/10/2025 **Time :** 12:05 **Temp :** 96 °C

End Digest Date: 03/10/2025 **Time :** 15:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SJ28.

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	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP84720
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1 CELL 55 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/10/25 16:10	SJ28. met dig.	Metals Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167020TB	PB167020TB	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
PB167037BL	PBW037	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
PB167037BS	LCS037	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	17
Q1488-02	ENV-101-SB01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	18
Q1488-04	ENV-101-SB02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	19
Q1488-06	ENV-102-SB01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	20
Q1488-08	ENV-102-SB02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	21
Q1488-10	ENV-104-SB01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22
Q1488-12	ENV-104-SB02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1490-02	CLAY-SLUDGE-DRUMS	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
Q1494-04	ASPHALT-SOIL	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	25
Q1494-06	SOIL	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	26
Q1494-08	SOIL-COMP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	27
Q1510-01	FMC-25-0001-0005	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
Q1514-02	ENV-105-SB01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	29
Q1514-04	ENV-105-SB02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	30
Q1514-06	ENV-103-SB01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
Q1514-06MS	ENV-103-SB01MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	33
Q1514-06MSD	ENV-103-SB01MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	34
Q1514-06DUP	ENV-103-SB01DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	32

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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 : 03/06/2025 **Time :** 17:00

End Prep Date : 03/07/2025 **Time :** 11:20

Combination Ratio : 20

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

Initial Room Temperature: 25 °C

Final Room Temperature: 22 °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	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1L Amber bottle	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 in not required. TUMBLER T-1 /T-2 checked,30 rpm. q1514-06 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/07/25 12:30	JP / TCLP Room	JP RJ / EXT
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167020

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
PB167020TB	LEB020	15	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1488-02	ENV-101-SB01	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-04	ENV-101-SB02	02	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1488-06	ENV-102-SB01	03	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1488-08	ENV-102-SB02	04	100.04	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q1488-10	ENV-104-SB01	05	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1488-12	ENV-104-SB02	06	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1490-02	CLAY-SLUDGE-DRUMS	07	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1494-04	ASPHALT-SOIL	08	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1494-06	SOIL	09	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1494-08	SOIL-COMP	10	100.04	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1510-01	FMC-25-0001-0005	11	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q1514-02	ENV-105-SB01	12	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1514-04	ENV-105-SB02	13	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1514-06	ENV-103-SB01	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2

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TCLP Solid Determination

PB167020

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167020TB	LEB020	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A
Q1510-01	FMC-25-0001-0005	N/A	N/A	N/A	N/A	100	N/A
Q1514-02	ENV-105-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1514-04	ENV-105-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1514-06	ENV-103-SB01	N/A	N/A	N/A	N/A	100	N/A

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TCLP Fluid Determination

PB167020

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
PB167020TB	LEB020	N/A	N/A	N/A	N/A	#1	4.94
Q1488-02	ENV-101-SB01	5.01	96.5	6.2	2.5	#1	4.94
Q1488-04	ENV-101-SB02	5.02	96.5	6.6	2.0	#1	4.94
Q1488-06	ENV-102-SB01	5.03	96.5	6.2	2.5	#1	4.94
Q1488-08	ENV-102-SB02	5.04	96.5	7.2	2.5	#1	4.94
Q1488-10	ENV-104-SB01	5.03	96.5	6.6	2.0	#1	4.94
Q1488-12	ENV-104-SB02	5.02	96.5	7.0	2.5	#1	4.94
Q1490-02	CLAY-SLUDGE-DRUMS	5.04	96.5	7.0	2.5	#1	4.94
Q1494-04	ASPHALT-SOIL	5.01	96.5	8.6	3.0	#1	4.94
Q1494-06	SOIL	5.02	96.5	9.1	4.0	#1	4.94
Q1494-08	SOIL-COMP	5.04	96.5	8.6	3.5	#1	4.94
Q1510-01	FMC-25-0001-0005	5.03	96.5	5.6	1.5	#1	4.94
Q1514-02	ENV-105-SB01	5.01	96.5	7.6	2.5	#1	4.94
Q1514-04	ENV-105-SB02	5.02	96.5	8.0	3.0	#1	4.94
Q1514-06	ENV-103-SB01	5.03	96.5	9.1	3.5	#1	4.94

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:	03/04/25 09:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
		% Solid:	88.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.089	U	1	0.089	0.45	mg/Kg	03/07/25 09:00	03/07/25 12:16	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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:	03/04/25 09:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.27	H	1	0	0	pH		03/05/25 16:20	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:08	1030
Reactive Cyanide	0.042	U	1	0.042	0.24	mg/Kg	03/05/25 11:00	03/05/25 16:22	9012B
Reactive Sulfide	6.30	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:30	9034

Comments: pH result reported at temperature 23.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 09:20
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
		% Solid:	90.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.086	U	1	0.086	0.44	mg/Kg	03/07/25 09:00	03/07/25 12:17	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 09:20
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.50	H	1	0	0	pH		03/05/25 16:25	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:15	1030
Reactive Cyanide	0.044	U	1	0.044	0.25	mg/Kg	03/05/25 11:00	03/05/25 16:22	9012B
Reactive Sulfide	3.17	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:33	9034

Comments: pH result reported at temperature 22.6 °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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 10:05
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
		% Solid:	85.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.091	U	1	0.091	0.46	mg/Kg	03/07/25 09:00	03/07/25 12:18	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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:	03/04/25 10:05
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.23	H	1	0	0	pH		03/05/25 16:30	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:22	1030
Reactive Cyanide	0.043	U	1	0.043	0.24	mg/Kg	03/05/25 11:00	03/05/25 16:22	9012B
Reactive Sulfide	6.37	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:35	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

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:	03/04/25 10:25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
		% Solid:	80.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.096	U	1	0.096	0.49	mg/Kg	03/07/25 09:00	03/07/25 12:19	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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:	03/04/25 10:25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.15	H	1	0	0	pH		03/05/25 16:33	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:30	1030
Reactive Cyanide	0.043	U	1	0.043	0.25	mg/Kg	03/05/25 11:00	03/05/25 16:22	9012B
Reactive Sulfide	3.16	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:38	9034

Comments: pH result reported at temperature 22.3 °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

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:	03/04/25 12:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	Matrix:	SOIL
		% Solid:	82.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.094	U	1	0.094	0.48	mg/Kg	03/07/25 09:00	03/07/25 12:20	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 12:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-10	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.50	H	1	0	0	pH		03/05/25 16:35	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:38	1030
Reactive Cyanide	0.042	U	1	0.042	0.24	mg/Kg	03/05/25 11:00	03/05/25 16:23	9012B
Reactive Sulfide	1.58	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:41	9034

Comments: pH result reported at temperature 21.4 °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:	03/04/25 12:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
		% Solid:	81.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.097	U	1	0.097	0.49	mg/Kg	03/07/25 09:00	03/07/25 12:21	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 12:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-12	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.06	H	1	0	0	pH		03/05/25 16:40	9045D
Ignitability	NO		1	0	0	oC		03/06/25 11:45	1030
Reactive Cyanide	0.044	U	1	0.044	0.25	mg/Kg	03/05/25 11:00	03/05/25 16:23	9012B
Reactive Sulfide	4.77	J	1	0.19	10.0	mg/Kg	03/05/25 15:50	03/06/25 13:44	9034

Comments: pH result reported at temperature 21.4 °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:	03/04/25 10:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		03/04/25 16:59	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25 12:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		03/04/25 17:00	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134896

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	03/04/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	03/04/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	03/04/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134907

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
Corrosivity	pH	7.02	7	100	90-110	03/05/2025
Sample ID: **CCV1**						
Corrosivity	pH	2.01	2.00	101	90-110	03/05/2025
Sample ID: **CCV2**						
Corrosivity	pH	12.02	12.00	100	90-110	03/05/2025
Sample ID: **CCV3**						
Corrosivity	pH	2.01	2.00	101	90-110	03/05/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134914

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.095	0.099	96	85-115	03/05/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	03/05/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	03/05/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	03/05/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134940

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	03/07/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	03/07/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	03/07/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	03/07/2025
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	03/07/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB134896

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/04/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/04/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/04/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134914

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	03/05/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	03/05/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	03/05/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	03/05/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134940

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/07/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/07/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/07/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/07/2025
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	03/07/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1488

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134896BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	03/04/2025
Sample ID: PB166991BL							
Reactive Cyanide	mg/Kg	< 0.1250	0.1250	U	0.044	0.25	03/05/2025
Sample ID: PB166998BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	03/06/2025
Sample ID: PB167023BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	03/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1488-14
Client ID: ENV-104-GW01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.98		0.0030	U	1.0	2	98		03/04/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1488-14
Client ID: ENV-104-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.98		0.0030	U	1.0	2	98		03/04/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1514-05
Client ID: ENV-103-SB01MS
Percent Solids for Spike Sample: 89.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1380		0.087	U	1440	40	96		03/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1514-05
Client ID: ENV-103-SB01MS
Percent Solids for Spike Sample: 89.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	42.5		0.087	U	44.9	2	95		03/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1514-05
Client ID: ENV-103-SB01MS
Percent Solids for Spike Sample: 89.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	38.2		0.087	U	44.9	2	85		03/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: WC-K1311DUP
SDG No.: Q1488
Sample ID: Q1481-01
Percent Solids for Spike Sample: 90.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		03/06/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: WC-K1311DUP
SDG No.: Q1488
Sample ID: Q1481-02
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	0.042	U	0.043	U	1	0		03/05/2025
Reactive Sulfide	mg/Kg	+/-20	3.19	J	3.19	J	1	0		03/06/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: ENV-101-SB01DUP
SDG No.: Q1488
Sample ID: Q1488-02
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	6.27		6.28		1	0.16		03/05/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: ENV-104-GW01DUP
SDG No.: Q1488
Sample ID: Q1488-14
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		03/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1488
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1488-14
Client ID: ENV-104-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.98		0.98		2	0.41		03/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: ENV-103-SB01DUP
SDG No.: Q1488
Sample ID: Q1514-05
Percent Solids for Spike Sample: 89.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.087	U	0.087	U	1	0		03/07/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB134896

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134896BS								
Hexavalent Chromium	mg/L	0.5	0.50		101	1	90-111	03/04/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1488
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB134940

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167023BS								
Hexavalent Chromium	mg/Kg	20	20.1		101	1	84-110	03/07/2025

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134896

Review By	rubina	Review On	3/5/2025 8:56:08 AM
Supervise By	Iwona	Supervise On	3/5/2025 12:56:01 PM
SubDirectory	LB134896	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	WP112169,WP112168,WP112166,WP112165,WP112061,WP110380,WP112167,WP112172,WP112170,WP112171

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/04/25 16:45		rubina	OK
2	CAL2	CAL2	CAL	03/04/25 16:46		rubina	OK
3	CAL3	CAL3	CAL	03/04/25 16:47		rubina	OK
4	CAL4	CAL4	CAL	03/04/25 16:48		rubina	OK
5	CAL5	CAL5	CAL	03/04/25 16:49		rubina	OK
6	CAL6	CAL6	CAL	03/04/25 16:50		rubina	OK
7	CAL7	CAL7	CAL	03/04/25 16:51		rubina	OK
8	ICV	ICV	ICV	03/04/25 16:52		rubina	OK
9	ICB	ICB	ICB	03/04/25 16:53		rubina	OK
10	CCV1	CCV1	CCV	03/04/25 16:54		rubina	OK
11	CCB1	CCB1	CCB	03/04/25 16:55		rubina	OK
12	RL Check	RL Check	SAM	03/04/25 16:56		rubina	OK
13	LB134896BL	LB134896BL	MB	03/04/25 16:57		rubina	OK
14	LB134896BS	LB134896BS	LCS	03/04/25 16:58		rubina	OK
15	Q1488-13	ENV-102-GW01	SAM	03/04/25 16:59		rubina	OK
16	Q1488-14	ENV-104-GW01	SAM	03/04/25 17:00		rubina	OK
17	Q1488-14DUP	ENV-104-GW01DUP	DUP	03/04/25 17:01		rubina	OK
18	Q1488-14MS	ENV-104-GW01MS	MS	03/04/25 17:02	1ML WP111315+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134896

Review By	rubina	Review On	3/5/2025 8:56:08 AM
Supervise By	lwona	Supervise On	3/5/2025 12:56:01 PM
SubDirectory	LB134896	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	WP112169,WP112168,WP112166,WP112165,WP112061,WP110380,WP112167,WP112172,WP112170,WP112171

19	Q1488-14MSD	ENV-104-GW01MSD	MSD	03/04/25 17:03	1ML WP111315+99.0ML SAMPLE	rubina	OK
20	CCV2	CCV2	CCV	03/04/25 17:04		rubina	OK
21	CCB2	CCB2	CCB	03/04/25 17:05		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134907

Review By	jignesh	Review On	3/6/2025 8:36:25 AM
Supervise By	Iwona	Supervise On	3/6/2025 11:58:21 AM
SubDirectory	LB134907	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/05/25 16:00		Jignesh	OK
2	CAL2	CAL2	CAL	03/05/25 16:01		Jignesh	OK
3	CAL3	CAL3	CAL	03/05/25 16:05		Jignesh	OK
4	ICV	ICV	ICV	03/05/25 16:10		Jignesh	OK
5	CCV1	CCV1	CCV	03/05/25 16:15		Jignesh	OK
6	Q1488-02	ENV-101-SB01	SAM	03/05/25 16:20		Jignesh	OK
7	Q1488-02DUP	ENV-101-SB01DUP	DUP	03/05/25 16:21		Jignesh	OK
8	Q1488-04	ENV-101-SB02	SAM	03/05/25 16:25		Jignesh	OK
9	Q1488-06	ENV-102-SB01	SAM	03/05/25 16:30		Jignesh	OK
10	Q1488-08	ENV-102-SB02	SAM	03/05/25 16:33		Jignesh	OK
11	Q1488-10	ENV-104-SB01	SAM	03/05/25 16:35		Jignesh	OK
12	Q1488-12	ENV-104-SB02	SAM	03/05/25 16:40		Jignesh	OK
13	Q1490-02	CLAY-SLUDGE-DRUI	SAM	03/05/25 16:47		Jignesh	OK
14	Q1494-04	ASPHALT-SOIL	SAM	03/05/25 16:50		Jignesh	OK
15	Q1494-06	SOIL	SAM	03/05/25 17:00		Jignesh	OK
16	CCV2	CCV2	CCV	03/05/25 17:10		Jignesh	OK
17	CCV3	CCV3	CCV	03/05/25 17:20		Jignesh	OK
18	Q1494-08	SOIL-COMP	SAM	03/06/25 17:15		Jignesh	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134914

Review By	Niha	Review On	3/6/2025 2:35:01 PM
Supervise By	Iwona	Supervise On	3/7/2025 11:53:49 AM
SubDirectory	LB134914	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112187,WP112188,WP112189,WP112190,WP112191,WP112192,WP112193
ICV Standard	WP112194
CCV Standard	WP112188
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112195

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/05/25 13:12		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/05/25 13:12		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/05/25 13:12		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/05/25 13:12		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/05/25 13:12		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/05/25 13:12		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/05/25 13:12		Niha	OK
8	ICV1	ICV1	ICV	03/05/25 16:15		Niha	OK
9	ICB1	ICB1	ICB	03/05/25 16:15		Niha	OK
10	CCV1	CCV1	CCV	03/05/25 16:15		Niha	OK
11	CCB1	CCB1	CCB	03/05/25 16:15		Niha	OK
12	PB166991BL	PB166991BL	MB	03/05/25 16:15		Niha	OK
13	Q1481-02	WC-K1311	SAM	03/05/25 16:15		Niha	OK
14	Q1481-02DUP	WC-K1311DUP	DUP	03/05/25 16:22		Niha	OK
15	Q1484-06	TR-OTR-COMP-01	SAM	03/05/25 16:22		Niha	OK
16	Q1488-02	ENV-101-SB01	SAM	03/05/25 16:22		Niha	OK
17	Q1488-04	ENV-101-SB02	SAM	03/05/25 16:22		Niha	OK
18	Q1488-06	ENV-102-SB01	SAM	03/05/25 16:22		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134914

Review By	Niha	Review On	3/6/2025 2:35:01 PM
Supervise By	Iwona	Supervise On	3/7/2025 11:53:49 AM
SubDirectory	LB134914	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112187,WP112188,WP112189,WP112190,WP112191,WP112192,WP112193
ICV Standard	WP112194
CCV Standard	WP112188
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112195

19	Q1488-08	ENV-102-SB02	SAM	03/05/25 16:22		Niha	OK
20	Q1488-10	ENV-104-SB01	SAM	03/05/25 16:23		Niha	OK
21	Q1488-12	ENV-104-SB02	SAM	03/05/25 16:23		Niha	OK
22	CCV2	CCV2	CCV	03/05/25 16:23		Niha	OK
23	CCB2	CCB2	CCB	03/05/25 16:29		Niha	OK
24	PB166993BL	PB166993BL	MB	03/05/25 16:29		Niha	OK
25	Q1480-33	TP-3-WATER-SAMPL	SAM	03/05/25 16:29		Niha	OK
26	Q1480-33DUP	TP-3-WATER-SAMPL	DUP	03/05/25 16:29		Niha	OK
27	CCV3	CCV3	CCV	03/05/25 16:29		Niha	OK
28	CCB3	CCB3	CCB	03/05/25 16:29		Niha	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB134927

Review By	Iwona	Review On	3/6/2025 2:09:49 PM
Supervise By	jignesh	Supervise On	3/6/2025 2:18:54 PM
SubDirectory	LB134927	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	Q1481-01	WC-K1311	SAM	03/06/25 10:30		Iwona	OK
2	Q1481-01DUP	WC-K1311DUP	DUP	03/06/25 10:38		Iwona	OK
3	Q1481-02	WC-K1311	SAM	03/06/25 10:45		Iwona	OK
4	Q1484-01	TR-OTR-COMP-01	SAM	03/06/25 10:52		Iwona	OK
5	Q1484-06	TR-OTR-COMP-01	SAM	03/06/25 11:00		Iwona	OK
6	Q1488-02	ENV-101-SB01	SAM	03/06/25 11:08		Iwona	OK
7	Q1488-04	ENV-101-SB02	SAM	03/06/25 11:15		Iwona	OK
8	Q1488-06	ENV-102-SB01	SAM	03/06/25 11:22		Iwona	OK
9	Q1488-08	ENV-102-SB02	SAM	03/06/25 11:30		Iwona	OK
10	Q1488-10	ENV-104-SB01	SAM	03/06/25 11:38		Iwona	OK
11	Q1488-12	ENV-104-SB02	SAM	03/06/25 11:45		Iwona	OK
12	Q1490-01	CLAY-SLUDGE-DRUI	SAM	03/06/25 11:52		Iwona	OK
13	Q1490-02	CLAY-SLUDGE-DRUI	SAM	03/06/25 12:00		Iwona	OK
14	Q1494-03	ASPHALT-SOIL	SAM	03/06/25 12:07		Iwona	OK
15	Q1494-04	ASPHALT-SOIL	SAM	03/06/25 12:15		Iwona	OK
16	Q1494-05	SOIL	SAM	03/06/25 12:23		Iwona	OK
17	Q1494-06	SOIL	SAM	03/06/25 12:30		Iwona	OK
18	Q1494-07	SOIL-COMP	SAM	03/06/25 12:37		Iwona	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB134927

Review By	Iwona	Review On	3/6/2025 2:09:49 PM
Supervise By	jignesh	Supervise On	3/6/2025 2:18:54 PM
SubDirectory	LB134927	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

19	Q1494-08	SOIL-COMP	SAM	03/06/25 12:45		Iwona	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB134929

Review By	rubina	Review On	3/6/2025 3:53:33 PM
Supervise By	Iwona	Supervise On	3/6/2025 3:52:21 PM
SubDirectory	LB134929	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	PB166998BL	PB166998BL	MB	03/06/25 13:20		rubina	OK
2	Q1481-02	WC-K1311	SAM	03/06/25 13:23		rubina	OK
3	Q1481-02DUP	WC-K1311DUP	DUP	03/06/25 13:25		rubina	OK
4	Q1484-06	TR-OTR-COMP-01	SAM	03/06/25 13:28		rubina	OK
5	Q1488-02	ENV-101-SB01	SAM	03/06/25 13:30		rubina	OK
6	Q1488-04	ENV-101-SB02	SAM	03/06/25 13:33		rubina	OK
7	Q1488-06	ENV-102-SB01	SAM	03/06/25 13:35		rubina	OK
8	Q1488-08	ENV-102-SB02	SAM	03/06/25 13:38		rubina	OK
9	Q1488-10	ENV-104-SB01	SAM	03/06/25 13:41		rubina	OK
10	Q1488-12	ENV-104-SB02	SAM	03/06/25 13:44		rubina	OK
11	Q1490-02	CLAY-SLUDGE-DRUI	SAM	03/06/25 13:47		rubina	OK
12	Q1494-04	ASPHALT-SOIL	SAM	03/06/25 13:50		rubina	OK
13	Q1494-06	SOIL	SAM	03/06/25 13:53		rubina	OK
14	Q1494-08	SOIL-COMP	SAM	03/06/25 13:56		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134940

Review By	rubina	Review On	3/7/2025 12:52:03 PM
Supervise By	Iwona	Supervise On	3/7/2025 1:18:19 PM
SubDirectory	LB134940	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	WP112185,WP110380,WP110381,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/07/25 12:00		rubina	OK
2	CAL2	CAL2	CAL	03/07/25 12:01		rubina	OK
3	CAL3	CAL3	CAL	03/07/25 12:02		rubina	OK
4	CAL4	CAL4	CAL	03/07/25 12:03		rubina	OK
5	CAL5	CAL5	CAL	03/07/25 12:04		rubina	OK
6	CAL6	CAL6	CAL	03/07/25 12:05		rubina	OK
7	CAL7	CAL7	CAL	03/07/25 12:06		rubina	OK
8	ICV	ICV	ICV	03/07/25 12:07		rubina	OK
9	ICB	ICB	ICB	03/07/25 12:08		rubina	OK
10	CCV1	CCV1	CCV	03/07/25 12:09		rubina	OK
11	CCB1	CCB1	CCB	03/07/25 12:10		rubina	OK
12	RL Check	RL Check	SAM	03/07/25 12:11		rubina	OK
13	PB167023BL	PB167023BL	MB	03/07/25 12:12		rubina	OK
14	PB167023BS	PB167023BS	LCS	03/07/25 12:13		rubina	OK
15	Q1481-01	WC-K1311	SAM	03/07/25 12:14		rubina	OK
16	Q1484-01	TR-OTR-COMP-01	SAM	03/07/25 12:15		rubina	OK
17	Q1488-01	ENV-101-SB01	SAM	03/07/25 12:16		rubina	OK
18	Q1488-03	ENV-101-SB02	SAM	03/07/25 12:17		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134940

Review By	rubina	Review On	3/7/2025 12:52:03 PM
Supervise By	Iwona	Supervise On	3/7/2025 1:18:19 PM
SubDirectory	LB134940	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	WP112185,WP110380,WP110381,WP111249

19	Q1488-05	ENV-102-SB01	SAM	03/07/25 12:18		rubina	OK
20	Q1488-07	ENV-102-SB02	SAM	03/07/25 12:19		rubina	OK
21	Q1488-09	ENV-104-SB01	SAM	03/07/25 12:20		rubina	OK
22	Q1488-11	ENV-104-SB02	SAM	03/07/25 12:21		rubina	OK
23	CCV2	CCV2	CCV	03/07/25 12:22		rubina	OK
24	CCB2	CCB2	CCB	03/07/25 12:23		rubina	OK
25	Q1490-01	CLAY-SLUDGE-DRUI	SAM	03/07/25 12:24		rubina	OK
26	Q1494-03	ASPHALT-SOIL	SAM	03/07/25 12:25		rubina	OK
27	Q1494-05	SOIL	SAM	03/07/25 12:26		rubina	OK
28	Q1494-07	SOIL-COMP	SAM	03/07/25 12:27		rubina	OK
29	Q1507-01	50-MIDDLESEX-AVE	SAM	03/07/25 12:28		rubina	OK
30	Q1508-01	RBR251372	SAM	03/07/25 12:29		rubina	OK
31	Q1514-01	ENV-105-SB01	SAM	03/07/25 12:30		rubina	OK
32	Q1514-03	ENV-105-SB02	SAM	03/07/25 12:31		rubina	OK
33	Q1514-05	ENV-103-SB01	SAM	03/07/25 12:32		rubina	OK
34	Q1514-05DUP	ENV-103-SB01DUP	DUP	03/07/25 12:33		rubina	OK
35	CCV3	CCV3	CCV	03/07/25 12:34		rubina	OK
36	CCB3	CCB3	CCB	03/07/25 12:35		rubina	OK
37	Q1514-05MSPre	ENV-103-SB01MS	MS	03/07/25 12:36		rubina	OK
38	Q1514-05MS2Ins	ENV-103-SB01MS	MS	03/07/25 12:37		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134940

Review By	rubina	Review On	3/7/2025 12:52:03 PM
Supervise By	lwona	Supervise On	3/7/2025 1:18:19 PM
SubDirectory	LB134940	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	WP112185,WP110380,WP110381,WP111249

39	Q1514-05MS3Post	ENV-103-SB01MS	MS	03/07/25 12:38		rubina	OK
40	CCV4	CCV4	CCV	03/07/25 12:39		rubina	OK
41	CCB4	CCB4	CCB	03/07/25 12:40		rubina	OK

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LAB CHRONICLE

OrderID:	Q1488	**OrderDate:**	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	**ENV-101-SB01**	**SOIL**			**03/04/25 09:10**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:16	
Q1488-02	**ENV-101-SB01**	**SOIL**			**03/04/25 09:10**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:20	
			Ignitability	1030			03/06/25 11:08	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:22	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:30	
Q1488-03	**ENV-101-SB02**	**SOIL**			**03/04/25 09:20**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:17	
Q1488-04	**ENV-101-SB02**	**SOIL**			**03/04/25 09:20**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:25	
			Ignitability	1030			03/06/25 11:15	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:22	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:33	

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LAB CHRONICLE

Q1488-05	**ENV-102-SB01**	**SOIL**			**03/04/25 10:05**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:18	
Q1488-06	**ENV-102-SB01**	**SOIL**			**03/04/25 10:05**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:30	
			Ignitability	1030			03/06/25 11:22	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:22	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:35	
Q1488-07	**ENV-102-SB02**	**SOIL**			**03/04/25 10:25**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:19	
Q1488-08	**ENV-102-SB02**	**SOIL**			**03/04/25 10:25**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:33	
			Ignitability	1030			03/06/25 11:30	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:22	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:38	
Q1488-09	**ENV-104-SB01**	**SOIL**			**03/04/25 12:00**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:20	
Q1488-10	**ENV-104-SB01**	**SOIL**			**03/04/25 12:00**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:35	

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LAB CHRONICLE

			Ignitability	1030			03/06/25 11:38	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:23	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:41	
Q1488-11	**ENV-104-SB02**	**SOIL**			**03/04/25 12:10**			**03/04/25**
			Hexavalent Chromium	7196A		03/07/25	03/07/25 12:21	
Q1488-12	**ENV-104-SB02**	**SOIL**			**03/04/25 12:10**			**03/04/25**
			Corrosivity	9045D			03/05/25 16:40	
			Ignitability	1030			03/06/25 11:45	
			Reactive Cyanide	9012B		03/05/25	03/05/25 16:23	
			Reactive Sulfide	9034		03/05/25	03/06/25 13:44	
Q1488-13	**ENV-102-GW01**	**WATER**			**03/04/25 10:45**			**03/04/25**
			Hexavalent Chromium	7196A			03/04/25 16:59	
Q1488-14	**ENV-104-GW01**	**WATER**			**03/04/25 12:30**			**03/04/25**
			Hexavalent Chromium	7196A			03/04/25 17:00	

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Soil/Sludge Reactive Cyanide Preparation Sheet

PB166991

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SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 03/05/2025 **Time :** 11:00 **Temp :** N/A

Matrix : SOIL

End Digest Date: 03/05/2025 **Time :** 12:30 **Temp :** N/A

Pippete ID : N/A

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: NF

Weigh By : NF

pH Meter ID : N/A

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	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
03.05.2025, 12:40	NF / WC	NF / WC
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB166991

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166991BL	PBS991	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1481-02DUP	WC-K1311DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1481-02	WC-K1311	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1484-06	TR-OTR-COMP-01	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-04	ENV-101-SB02	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-06	ENV-102-SB01	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-08	ENV-102-SB02	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-10	ENV-104-SB01	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-12	ENV-104-SB02	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB166998

15

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 03/05/2025 **Time :** 15:50 **Temp :** N/A

Matrix : SOIL

End Digest Date: 03/05/2025 **Time :** 17:20 **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:

03/05/2025 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

PB166998

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166998BL	PBS998	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1481-02DUP	WC-K1311DUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1481-02	WC-K1311	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1484-06	TR-OTR-COMP-01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-02	ENV-101-SB01	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-04	ENV-101-SB02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-06	ENV-102-SB01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-08	ENV-102-SB02	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-10	ENV-104-SB01	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-12	ENV-104-SB02	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-04	ASPHALT-SOIL	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-06	SOIL	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-08	SOIL-COMP	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167023

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 03/07/2025 **Time :** 09:00 **Temp :** 90 °C

End Digest Date: 03/07/2025 **Time :** 10:00 **Temp :** 94 °C

R. Detch 03/07/2025 10-15 90i JRM
03/07/2025 11-15 95i JRM

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RM

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP111908
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112230
CAL3	CAL3	0.5ML	WP112230
CAL4	CAL4	1ML	WP112230
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: 03/07/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167023

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167023BL	PBS023	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167023BS	LCS023	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1481-01	WC-K1311	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1484-01	TR-OTR-COMP-01	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-01	ENV-101-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-03	ENV-101-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-05	ENV-102-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-07	ENV-102-SB02	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-09	ENV-104-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1488-11	ENV-104-SB02	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1490-01	CLAY-SLUDGE-DRUMS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-03	ASPHALT-SOIL	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-05	SOIL	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1494-07	SOIL-COMP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1507-01	50-MIDDLESEX-AVE	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1508-01	RBR251372	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-01	ENV-105-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-03	ENV-105-SB02	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-05	ENV-103-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-05DUP	ENV-103-SB01DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-05MSPre	ENV-103-SB01MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-05MS2Ins	ENV-103-SB01MS2INS	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-05MS3Post	ENV-103-SB01MS3POST	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1488
COC Number 2046197

16
16.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adams Ave
CITY Audubon STATE: PA ZIP: 19405
ATTENTION: Joe Krupensky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Anfrak replacement at SB
PROJECT NO. 95000060818 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupensky
e-mail: RaQC@BEMAS.COM
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Peasly 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 BEM EDD

ANALYSIS

1. PCBs
2. TAL metals
3. TCL-VOC+10
4. Hex chromium
5. TCL-SVOCs-BNA-20
6. EPH
7. RCRA
8. TCLP
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.	ENV-101-SB01	S		X	3/4/25	910	9	X	X	X	X	X	X	X	X		
2.	ENV-101-SB02	S				920	8	X	X	X	X	X	X	X	X		
3.	ENV-102-SB01	S				1005	9	X	X	X	X	X	X	X	X		
4.	ENV-102-SB02	S				1025	9	X	X	X	X	X	X	X	X		
5.	ENV-102-GW01	GW				1045	8	X	X	X	X	X	X				
6.	ENV-104-SB01	S				1200	9	X	X	X	X	X	X	X	X		
7.	ENV-104-SB02	S				1210	9	X	X	X	X	X	X	X	X		
8.	ENV-104-GW01	GW				1230	8	X	X	X	X	X	X				
9.	TB03042025	W				NA	2			X							
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.	3/4/25 1412	1. 3-4-25 1412
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1527	RECEIVED BY:
3.	3-4-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7 °C
Comments: _____

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1488 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 3/4/2025 3:39:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 3/4/2025 3:27:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1488-01	ENV-101-SB01	Solid	03/04/2025	09:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-03	ENV-101-SB02	Solid	03/04/2025	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-05	ENV-102-SB01	Solid	03/04/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-07	ENV-102-SB02	Solid	03/04/2025	10:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-09	ENV-104-SB01	Solid	03/04/2025	12:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-11	ENV-104-SB02	Solid	03/04/2025	12:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1488-13	ENV-102-GW01	Water	03/04/2025	10:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1488-14	ENV-104-GW01	Water	03/04/2025	12:30					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1488 PORT06
Client Name : Portal Partners Tri-Venture
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Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1488-15	TB03042025	Water	03/04/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinguished By: [signature]
Date / Time : 3-4-25 1615

Received By : [signature]
Date / Time : 3.4.25 16:15

Storage Area : VOA Refridgerator Room