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

DATA PACKAGE

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

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2024

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : P4892

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : NJ

Project Number : 9500000878

Laboratory Sample ID(s) : P4892

Sampling Date(s) : 11/15/2024

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

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

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

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Cover Page

Order ID : P4892

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4892-01	WB-310-TOP
P4892-02	WB-310-BOT
P4892-03	WB-310-BOT
P4892-04	WB-310-SW

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

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:22 pm, Dec 02, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260D.

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

The RPD for {VN1120WBSD02} with File ID: VN084982.D met criteria except for 1,2,3-Trichlorobenzene[23%], 1,2,4-Trichlorobenzene[21%] these compounds did not meet the NJDKQP criteria and in-house criteria due to difference in results of BS-BSD.
The Blank Spike met requirements for all samples .

The Blank Spike Duplicate for {VN1120WBSD02} with File ID: VN084982.D met requirements for all samples except for 1,2,3-Trichlorobenzene[66%] and 1,2,4-Trichlorobenzene[65%] these compounds did not meet the NJDKQP criteria and in-house

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criteria but associated Blank Spike and CCAL passing for these analyte therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82N103024W.M) for Methyl Acetate, Acetone, Chloroethane, Chloromethane these compounds are passing on Linear Regression while, 1,4-Dichlorobenzene this compound is passing on Quadratic Regression.
The %RSD is greater than 20% in the Initial Calibration method (82Y111924S.M) for Chloromethane is passing on Linear Regression.

The Continuous Calibration File ID VN084960.D met the requirements except for 2-Hexanone and 4-Methyl-2-Pentanone failing high but no positive hit in associated sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:22 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements. The Continuous Calibration File ID VN084995.D met the requirements except for 2-Butanone failing high but no positive hit in associated sample therefore no corrective action taken.
The Tuning criteria met requirements.

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E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Trip Blank was not provided with this set of samples.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

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

The MS {P4892-02MS} with File ID: BF140496.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[68%], 3-Nitroaniline[58%], 4-Chloroaniline[34%], Hexachlorocyclopentadiene[169%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

The MSD {P4892-02MSD} with File ID: BF140497.D recoveries met the acceptable requirements except for 3-Nitroaniline[68%], 4-Chloroaniline[41%], Benzaldehyde[11%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[200%] this compound did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

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The RPD for {P4892-02MSD} with File ID: BF140497.D met criteria except for Benzaldehyde[200%] this compound did not meet the NJDKQP criteria and in-house criteria, due to difference in results of MS and MSD.

The Blank Spike for {PB165086BS} with File ID: BF140594.D met requirements for all samples except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[65%], 4-Chloroaniline[49%], Benzaldehyde[12%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[188%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {PB165152BS} with File ID: BF140598.D met requirements for all samples except for 3,3-Dichlorobenzidine[66%], 3-Nitroaniline[64%], 4-Chloroaniline[45%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[190%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {PB165152BSD} with File ID: BF140600.D met requirements for all samples except for 3,3-Dichlorobenzidine[58%], 3-Nitroaniline[58%] and 4-Chloroaniline[43%] 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-BF112124.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF140488.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140501.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample 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.

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

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

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

The MS {P4892-03MS} with File ID: BF140613.D recoveries met the requirements for all compounds except for 1,4-Dichlorobenzene[64%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {P4892-03MSD} with File ID: BF140614.D recoveries met the acceptable requirements except for 1,4-Dichlorobenzene[58%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The RPD met criteria .
The Blank Spike met requirements for all samples .

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

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

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

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: PCB

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

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

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: EPH

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

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

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APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

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

The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .

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

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E. Additional Comments:

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Dec 02, 2024

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

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

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

The Surrogate recoveries met the acceptable criteria except for PB165060TB[2,4-DCAA(1)-67% , 2,4-DCAA(2)-58%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

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

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Phone: 908 789 8900 Fax: 908 789 8922

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample WB-310-TOP was diluted due to high concentrations for Chromium and Mercury & Sample WB-310-SW was diluted due to high concentrations for Sodium.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (BU-02-111824MS) analysis met criteria for all samples except for Manganese and Zinc due to Chemical Interference during Digestion Process. The Matrix Spike (WB-310-SWMS) analysis met criteria for all samples except for Aluminum, Antimony, Arsenic, Selenium, Silver and Zinc due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (BU-02-111824MSD) analysis met criteria for all samples except for Zinc due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (WB-310-SWMSD) analysis met criteria for all samples except for Aluminum, Antimony, Arsenic, Selenium, Silver, and Zinc due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

The Serial Dilution (WB-310-SWL) met criteria for all samples except for Aluminum and Potassium due to sample matrix interference.

E. Additional Comments:

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

D. QA/ QC Samples:

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

The Matrix Spike (MH-759MS) analysis met criteria for all samples except for Barium due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (MH-759MSD) analysis met criteria for all samples except for Barium due to Chemical Interference during Digestion Process.

The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Dec 02, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4892
Test Name: Hexavalent Chromium,Corrosivity,Trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/15/2024.
1 Water sample was received on 11/15/2024.

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

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

D. QA/ QC Samples:
The Holding Times were met for all samples except for WB-310-BOT of Corrosivity as sample was 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 N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:25 pm, Dec 02, 2024

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

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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Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4892

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

QA Review Signature: SOHIL JODHANI **Date:** 11/30/2024

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

Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**WB-310-TOP**								
P4892-01	WB-310-TOP	SOIL	Acetone		110		7.10	28.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	Carbon Disulfide		7.20		1.40	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	2-Butanone		40.3		6.40	28.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	Methylcyclohexane		14.3		0.98	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene		22.6		0.81	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Toluene		1.90	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Chlorobenzene		1.70	J	0.84	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Ethyl Benzene		1.20	J	0.70	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	m/p-Xylenes		11.5		1.50	11.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	o-Xylene		17.2		0.79	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Isopropylbenzene		1.50	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,3-Dichlorobenzene		5.90		0.84	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,4-Dichlorobenzene		6.10		0.91	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,2-Dichlorobenzene		2.10	J	0.67	5.70	ug/Kg
			Total Voc :		244				
P4892-01	WB-310-TOP	SOIL	unknown12.127	*	46.4	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.164	*	59.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.499	*	53.2	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.658	*	77.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pentane, 2,2,4-trimethyl-	*	30.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene, (1-methyl-1-propenyl	*	28.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Cyclohexane, 1,2,4-trimethyl-	*	52.7	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, decahydro-2-metl	*	53.1	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Nonane, 3-methyl-	*	44.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Decane, 3-methyl-	*	35.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	n-propylbenzene	*	1.50	J	0.72	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,3,5-Trimethylbenzene	*	6.50	J	0.72	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,2,4-Trimethylbenzene	*	10.7	J	1.60	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	sec-Butylbenzene	*	1.40	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	p-Isopropyltoluene	*	2.80	J	0.66	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	n-Butylbenzene	*	1.60	J	0.71	5.70	ug/Kg
			Total Tics :		505				
			Total Concentration:		748				
Client ID:	**WB-310-SW**								
P4892-04	WB-310-SW	Water	m/p-Xylenes		0.39	J	0.31	2.00	ug/L
			Total Voc :		0.39				

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4892-04	WB-310-SW	Water	Acetic acid	*	7.60	J	0	0	ug/L
P4892-04	WB-310-SW	Water	1,2,4-Trimethylbenzene	*	0.52	J	0.18	1.00	ug/L
			Total Tics :		8.12				
			Total Concentration:		8.51				

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	59.8
Sample Wt/Vol:	7.39 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
VY020395.D	1		11/21/24 18:27	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	5.70	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	0.87	U	0.87	5.70	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.88	U	0.88	5.70	ug/Kg
67-64-1	Acetone	110		7.10	28.3	ug/Kg
75-15-0	Carbon Disulfide	7.20		1.40	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.70	ug/Kg
79-20-9	Methyl Acetate	2.00	U	2.00	5.70	ug/Kg
75-09-2	Methylene Chloride	3.90	U	3.90	11.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	5.70	ug/Kg
110-82-7	Cyclohexane	0.78	U	0.78	5.70	ug/Kg
78-93-3	2-Butanone	40.3		6.40	28.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.98	U	0.98	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	5.70	ug/Kg
74-97-5	Bromochloromethane	2.70	U	2.70	5.70	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	5.70	ug/Kg
108-87-2	Methylcyclohexane	14.3		0.98	5.70	ug/Kg
71-43-2	Benzene	22.6		0.81	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.69	U	0.69	5.70	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	5.70	ug/Kg
75-27-4	Bromodichloromethane	0.63	U	0.63	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.90	U	4.90	28.3	ug/Kg
108-88-3	Toluene	1.90	J	0.76	5.70	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	59.8
Sample Wt/Vol:	7.39 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
VY020395.D	1		11/21/24 18:27	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.64	U	0.64	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.95	U	0.95	5.70	ug/Kg
591-78-6	2-Hexanone	5.40	U	5.40	28.3	ug/Kg
124-48-1	Dibromochloromethane	0.74	U	0.74	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.89	U	0.89	5.70	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	5.70	ug/Kg
108-90-7	Chlorobenzene	1.70	J	0.84	5.70	ug/Kg
100-41-4	Ethyl Benzene	1.20	J	0.70	5.70	ug/Kg
179601-23-1	m/p-Xylenes	11.5		1.50	11.3	ug/Kg
95-47-6	o-Xylene	17.2		0.79	5.70	ug/Kg
100-42-5	Styrene	0.68	U	0.68	5.70	ug/Kg
75-25-2	Bromoform	0.92	U	0.92	5.70	ug/Kg
98-82-8	Isopropylbenzene	1.50	J	0.76	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.90		0.84	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	6.10		0.91	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	J	0.67	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.89	U	0.89	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.88	U	0.88	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.0		70 (50) - 130 (163)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.9		70 (29) - 130 (146)	118%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	144000	7.713			
540-36-3	1,4-Difluorobenzene	282000	8.616			
3114-55-4	Chlorobenzene-d5	273000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	59.8
Sample Wt/Vol:	7.39 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
VY020395.D	1		11/21/24 18:27	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000540-84-1	Pentane, 2,2,4-trimethyl-	30.0	J		8.25	ug/Kg
005911-04-6	Nonane, 3-methyl-	44.6	J		12.0	ug/Kg
	unknown12.127	46.4	J		12.1	ug/Kg
	unknown12.164	59.6	J		12.2	ug/Kg
	unknown12.499	53.2	J		12.5	ug/Kg
103-65-1	n-propylbenzene	1.50	J		12.6	ug/Kg
	unknown12.658	77.6	J		12.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	6.50	J		12.7	ug/Kg
002234-75-5	Cyclohexane, 1,2,4-trimethyl-	52.7	J		12.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	10.7	J		13.0	ug/Kg
013151-34-3	Decane, 3-methyl-	35.0	J		13.1	ug/Kg
135-98-8	sec-Butylbenzene	1.40	J		13.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.80	J		13.3	ug/Kg
104-51-8	n-Butylbenzene	1.60	J		13.6	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	53.1	J		14.2	ug/Kg
000767-99-7	Benzene, (1-methyl-1-propenyl)-, (	28.0	J		14.6	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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.1
Sample Wt/Vol:	8.56 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
VY020406.D	1		11/22/24 12:01	VY112224

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	0.79	U	0.79	3.40	ug/Kg
75-01-4	Vinyl Chloride	0.52	U	0.52	3.40	ug/Kg
74-83-9	Bromomethane	0.70	U	0.70	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	4.20	U	4.20	17.0	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	3.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.45	U	0.45	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	6.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.57	U	0.57	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	17.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.59	U	0.59	3.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.41	U	0.41	3.40	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	3.40	ug/Kg
67-66-3	Chloroform	0.45	U	0.45	3.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.53	U	0.53	3.40	ug/Kg
108-87-2	Methylcyclohexane	0.59	U	0.59	3.40	ug/Kg
71-43-2	Benzene	0.49	U	0.49	3.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.41	U	0.41	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	17.0	ug/Kg
108-88-3	Toluene	0.45	U	0.45	3.40	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.1
Sample Wt/Vol:	8.56 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
VY020406.D	1		11/22/24 12:01	VY112224

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	0.57	U	0.57	3.40	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	17.0	ug/Kg
124-48-1	Dibromochloromethane	0.44	U	0.44	3.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.54	U	0.54	3.40	ug/Kg
127-18-4	Tetrachloroethene	0.60	U	0.60	3.40	ug/Kg
108-90-7	Chlorobenzene	0.50	U	0.50	3.40	ug/Kg
100-41-4	Ethyl Benzene	0.42	U	0.42	3.40	ug/Kg
179601-23-1	m/p-Xylenes	0.92	U	0.92	6.80	ug/Kg
95-47-6	o-Xylene	0.47	U	0.47	3.40	ug/Kg
100-42-5	Styrene	0.41	U	0.41	3.40	ug/Kg
75-25-2	Bromoform	0.55	U	0.55	3.40	ug/Kg
98-82-8	Isopropylbenzene	0.45	U	0.45	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	0.50	U	0.50	3.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.54	U	0.54	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	46.7		70 (50) - 130 (163)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 (54) - 130 (147)	96%	SPK: 50
2037-26-5	Toluene-d8	47.3		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		70 (29) - 130 (146)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	7.713			
540-36-3	1,4-Difluorobenzene	284000	8.622			
3114-55-4	Chlorobenzene-d5	251000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	91200	13.353			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.1
Sample Wt/Vol:	8.56 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
VY020406.D	1		11/22/24 12:01	VY112224

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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084984.D	1		11/20/24 21:22	VN112024

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084984.D	1		11/20/24 21:22	VN112024

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	0.39	J	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	UQ	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	UQ	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	47.5		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	45.9		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.7		70 (77) - 130 (121)	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.218			
540-36-3	1,4-Difluorobenzene	308000	9.1			
3114-55-4	Chlorobenzene-d5	262000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084984.D	1		11/20/24 21:22	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000064-19-7	Acetic acid	7.60	J		8.72	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.52	J		13.5	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

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

Surrogate Summary

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4892-01	WB-310-TOP	1,2-Dichloroethane-d4	50	61.0	122	70 (50)	130 (163)
		Dibromofluoromethane	50	50.7	101	70 (54)	130 (147)
		Toluene-d8	50	49.0	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	58.9	118	70 (29)	130 (146)
P4892-02	WB-310-BOT	1,2-Dichloroethane-d4	50	46.7	93	70 (50)	130 (163)
		Dibromofluoromethane	50	47.8	96	70 (54)	130 (147)
		Toluene-d8	50	47.3	95	70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.9	92	70 (29)	130 (146)
VY1121SBL01	VY1121SBL01	1,2-Dichloroethane-d4	50	51.9	104	70 (50)	130 (163)
		Dibromofluoromethane	50	48.5	97	70 (54)	130 (147)
		Toluene-d8	50	48.2	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.3	95	70 (29)	130 (146)
VY1121SBS01	VY1121SBS01	1,2-Dichloroethane-d4	50	46.0	92	70 (50)	130 (163)
		Dibromofluoromethane	50	43.7	87	70 (54)	130 (147)
		Toluene-d8	50	43.4	87	70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.0	90	70 (29)	130 (146)
VY1121SBSD01	VY1121SBSD01	1,2-Dichloroethane-d4	50	56.3	113	70 (50)	130 (163)
		Dibromofluoromethane	50	53.0	106	70 (54)	130 (147)
		Toluene-d8	50	52.8	106	70 (58)	130 (134)
		4-Bromofluorobenzene	50	55.2	110	70 (29)	130 (146)
VY1122SBL01	VY1122SBL01	1,2-Dichloroethane-d4	50	47.6	95	70 (50)	130 (163)
		Dibromofluoromethane	50	48.4	97	70 (54)	130 (147)
		Toluene-d8	50	47.6	95	70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.3	91	70 (29)	130 (146)
VY1122SBS02	VY1122SBS02	1,2-Dichloroethane-d4	50	53.1	106	70 (50)	130 (163)
		Dibromofluoromethane	50	53.2	106	70 (54)	130 (147)
		Toluene-d8	50	52.9	106	70 (58)	130 (134)
		4-Bromofluorobenzene	50	54.6	109	70 (29)	130 (146)

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Surrogate Summary

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4892-04	WB-310-SW	1,2-Dichloroethane-d4	50	53.0	106	70 (74)	130 (125)
		Dibromofluoromethane	50	47.5	95	70 (75)	130 (124)
		Toluene-d8	50	45.9	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	41.7	83	70 (77)	130 (121)
VN1120WBL01	VN1120WBL01	1,2-Dichloroethane-d4	50	51.1	102	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	46.1	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.4	93	70 (77)	130 (121)
VN1120WBS02	VN1120WBS02	1,2-Dichloroethane-d4	50	46.9	94	70 (74)	130 (125)
		Dibromofluoromethane	50	48.3	97	70 (75)	130 (124)
		Toluene-d8	50	44.9	90	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.2	96	70 (77)	130 (121)
VN1120WBSD0	VN1120WBSD02	1,2-Dichloroethane-d4	50	51.7	103	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	47.2	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.5	101	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084964.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1120WBS02	Dichlorodifluoromethane	20	20.6	ug/L	103			40 (69)	160 (116)	
	Chloromethane	20	17.8	ug/L	89			40 (65)	160 (116)	
	Vinyl chloride	20	19.3	ug/L	97			70 (65)	130 (117)	
	Bromomethane	20	20.1	ug/L	101			40 (58)	160 (125)	
	Chloroethane	20	19.2	ug/L	96			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.8	ug/L	99			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	17.8	ug/L	89			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.8	ug/L	109			70 (78)	130 (114)	
	Methyl Acetate	20	19.7	ug/L	99			70 (67)	130 (125)	
	Methylene Chloride	20	20.2	ug/L	101			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.8	ug/L	99			70 (78)	130 (112)	
	Cyclohexane	20	18.8	ug/L	94			70 (75)	130 (110)	
	2-Butanone	100	120	ug/L	120			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.8	ug/L	104			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.1	ug/L	101			70 (77)	130 (110)	
	Bromochloromethane	20	21.8	ug/L	109			70 (70)	130 (124)	
	Chloroform	20	20.6	ug/L	103			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			70 (80)	130 (108)	
	Methylcyclohexane	20	20.6	ug/L	103			70 (72)	130 (115)	
	Benzene	20	19.8	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	19.6	ug/L	98			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.7	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	20.2	ug/L	101			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	130	ug/L	130			40 (74)	160 (118)	
	Toluene	20	20.7	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.2	ug/L	101			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.9	ug/L	110			70 (83)	130 (112)	
	2-Hexanone	100	130	ug/L	130			40 (73)	160 (117)	
	Dibromochloromethane	20	21.5	ug/L	108			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.3	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	19.7	ug/L	99			70 (67)	130 (123)	
	Chlorobenzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	Ethyl Benzene	20	19.6	ug/L	98			70 (83)	130 (109)	
	m/p-Xylenes	40	39.3	ug/L	98			70 (82)	130 (110)	
	o-Xylene	20	20.7	ug/L	104			70 (83)	130 (109)	
	Styrene	20	20.2	ug/L	101			70 (80)	130 (111)	
	Bromoform	20	20.0	ug/L	100			70 (79)	130 (109)	
	Isopropylbenzene	20	19.3	ug/L	97			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.0	ug/L	90			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.0	ug/L	90			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084964.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1120WBS02	1,2-Dibromo-3-Chloropropane	20	20.6	ug/L	103			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.0	ug/L	80			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.5	ug/L	83			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084982.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1120WBSD02	Dichlorodifluoromethane	20	19.7	ug/L	99	4		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.6	ug/L	83	7		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.9	ug/L	95	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	19.2	ug/L	96	5		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.5	ug/L	93	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	18.6	ug/L	93	5		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	17.9	ug/L	90	5		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	0		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	16.6	ug/L	83	7		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.1	ug/L	96	13		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	18.7	ug/L	94	5		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.0	ug/L	95	6		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	4		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.0	ug/L	95	4		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	17.9	ug/L	90	4		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.5	ug/L	98	6		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.2	ug/L	91	10		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	20.2	ug/L	101	8		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.4	ug/L	97	6		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.5	ug/L	98	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	17.7	ug/L	89	15		70 (72)	130 (115)	20 (20)
	Benzene	20	17.9	ug/L	90	10		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.0	ug/L	95	12		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.3	ug/L	86	13		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	18.5	ug/L	93	11		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	18.3	ug/L	92	9		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	17		40 (74)	160 (118)	20 (20)
	Toluene	20	18.5	ug/L	93	11		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	16.9	ug/L	85	13		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	17.7	ug/L	89	13		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	19.2	ug/L	96	14		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	17		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.0	ug/L	95	13		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	18.0	ug/L	90	16		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	18.0	ug/L	90	10		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	17.8	ug/L	89	9		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.1	ug/L	91	7		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	36.6	ug/L	92	6		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.1	ug/L	96	8		70 (83)	130 (109)	20 (20)
	Styrene	20	17.9	ug/L	90	12		70 (80)	130 (111)	20 (20)
	Bromoform	20	19.0	ug/L	95	5		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	17.2	ug/L	86	12		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	17.8	ug/L	89	14		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	15.0	ug/L	75	16		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	16.1	ug/L	81	11		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	15.8	ug/L	79	13		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084982.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual		Limits Low	Limits High	Limits RPD
VN1120WBSD02	1,2-Dibromo-3-Chloropropane	20	17.6	ug/L	88	16			40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	13.0	ug/L	65	21	*	*	70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	13.2	ug/L	66	23	*	*	70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1121SBS01	Dichlorodifluoromethane	20	22.3	ug/Kg	112			40 (64)	160 (136)	
	Chloromethane	20	14.3	ug/Kg	72			40 (70)	160 (130)	
	Vinyl chloride	20	15.8	ug/Kg	79			70 (72)	130 (129)	
	Bromomethane	20	17.3	ug/Kg	86			40 (58)	160 (141)	
	Chloroethane	20	17.0	ug/Kg	85			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.8	ug/Kg	99			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/Kg	92			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.3	ug/Kg	92			70 (79)	130 (121)	
	Acetone	100	93.9	ug/Kg	94			40 (60)	160 (131)	
	Carbon disulfide	20	17.3	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.3	ug/Kg	97			70 (77)	130 (129)	
	Methyl Acetate	20	18.1	ug/Kg	91			70 (69)	130 (149)	
	Methylene Chloride	20	19.0	ug/Kg	95			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.5	ug/Kg	93			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	99.8	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.1	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.9	ug/Kg	95			70 (82)	130 (123)	
	Bromochloromethane	20	18.1	ug/Kg	91			70 (80)	130 (127)	
	Chloroform	20	19.0	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	18.8	ug/Kg	94			70 (77)	130 (123)	
	Benzene	20	19.6	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.7	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	Bromodichloromethane	20	19.9	ug/Kg	100			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	99.7	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.0	ug/Kg	95			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	18.7	ug/Kg	94			70 (80)	130 (125)	
	Tetrachloroethene	20	18.6	ug/Kg	93			70 (83)	130 (125)	
	Chlorobenzene	20	18.6	ug/Kg	93			70 (84)	130 (122)	
	Ethyl Benzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	m/p-Xylenes	40	39.2	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.5	ug/Kg	98			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	20.7	ug/Kg	104			70 (75)	130 (127)	
	Isopropylbenzene	20	18.4	ug/Kg	92			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	17.8	ug/Kg	89			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.4	ug/Kg	92			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.6	ug/Kg	93			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1121SBS01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.9	ug/Kg	90			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.6	ug/Kg	88			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020376.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1121SBSD01	Dichlorodifluoromethane	20	23.8	ug/Kg	119	6		40 (64)	160 (136)	30 (20)
	Chloromethane	20	14.9	ug/Kg	75	4		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	16.8	ug/Kg	84	6		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.1	ug/Kg	96	11		40 (58)	160 (141)	30 (20)
	Chloroethane	20	17.8	ug/Kg	89	5		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	21.1	ug/Kg	106	7		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.4	ug/Kg	97	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.8	ug/Kg	99	7		70 (79)	130 (121)	30 (20)
	Acetone	100	95.5	ug/Kg	96	2		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.9	ug/Kg	95	10		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.0	ug/Kg	95	4		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.4	ug/Kg	102	7		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.5	ug/Kg	98	9		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.8	ug/Kg	99	6		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.4	ug/Kg	97	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	10		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	23.2	ug/Kg	116	9		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	9		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	17.9	ug/Kg	90	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.8	ug/Kg	104	9		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.8	ug/Kg	109	8		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	20.4	ug/Kg	102	8		70 (77)	130 (123)	30 (20)
	Benzene	20	21.9	ug/Kg	110	12		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	23.1	ug/Kg	116	11		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.1	ug/Kg	106	9		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.1	ug/Kg	106	10		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.6	ug/Kg	108	8		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	10		40 (70)	160 (135)	30 (20)
	Toluene	20	21.8	ug/Kg	109	12		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	21.1	ug/Kg	106	10		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	22.0	ug/Kg	110	10		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	9		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	22.4	ug/Kg	112	12		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.9	ug/Kg	104	10		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.9	ug/Kg	104	11		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.9	ug/Kg	104	11		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.1	ug/Kg	106	11		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	42.8	ug/Kg	107	9		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.5	ug/Kg	108	10		70 (83)	130 (123)	30 (20)
	Styrene	20	22.1	ug/Kg	111	11		70 (82)	130 (124)	30 (20)
	Bromoform	20	22.2	ug/Kg	111	7		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.4	ug/Kg	102	10		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.7	ug/Kg	99	8		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100	12		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	11		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	11		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020376.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1121SBSD01	1,2-Dibromo-3-Chloropropane	20	20.2	ug/Kg	101	10		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	11		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97	10		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020404.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1122SBS02	Dichlorodifluoromethane	20	25.3	ug/Kg	127			40 (64)	160 (136)	
	Chloromethane	20	15.7	ug/Kg	79			40 (70)	160 (130)	
	Vinyl chloride	20	17.6	ug/Kg	88			70 (72)	130 (129)	
	Bromomethane	20	20.3	ug/Kg	102			40 (58)	160 (141)	
	Chloroethane	20	18.1	ug/Kg	91			40 (69)	160 (130)	
	Trichlorofluoromethane	20	22.8	ug/Kg	114			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			70 (79)	130 (121)	
	Acetone	100	95.0	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	19.5	ug/Kg	98			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103			70 (77)	130 (129)	
	Methyl Acetate	20	17.9	ug/Kg	90			70 (69)	130 (149)	
	Methylene Chloride	20	20.5	ug/Kg	103			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (123)	
	Cyclohexane	20	20.6	ug/Kg	103			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	24.8	ug/Kg	124			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.5	ug/Kg	108			70 (82)	130 (123)	
	Bromochloromethane	20	18.3	ug/Kg	92			70 (80)	130 (127)	
	Chloroform	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	22.9	ug/Kg	115			70 (80)	130 (126)	
	Methylcyclohexane	20	22.6	ug/Kg	113			70 (77)	130 (123)	
	Benzene	20	22.5	ug/Kg	113			70 (84)	130 (121)	
	1,2-Dichloroethane	20	22.7	ug/Kg	114			70 (81)	130 (126)	
	Trichloroethene	20	22.8	ug/Kg	114			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.9	ug/Kg	110			70 (83)	130 (122)	
	Bromodichloromethane	20	22.1	ug/Kg	111			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	22.5	ug/Kg	113			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	21.2	ug/Kg	106			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	22.2	ug/Kg	111			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.7	ug/Kg	109			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	22.6	ug/Kg	113			70 (79)	130 (125)	
	1,2-Dibromoethane	20	21.2	ug/Kg	106			70 (80)	130 (125)	
	Tetrachloroethene	20	22.8	ug/Kg	114			70 (83)	130 (125)	
	Chlorobenzene	20	22.3	ug/Kg	112			70 (84)	130 (122)	
	Ethyl Benzene	20	22.6	ug/Kg	113			70 (82)	130 (124)	
	m/p-Xylenes	40	45.5	ug/Kg	114			70 (83)	130 (124)	
	o-Xylene	20	22.6	ug/Kg	113			70 (83)	130 (123)	
	Styrene	20	23.0	ug/Kg	115			70 (82)	130 (124)	
	Bromoform	20	23.6	ug/Kg	118			70 (75)	130 (127)	
	Isopropylbenzene	20	22.9	ug/Kg	115			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	22.6	ug/Kg	113			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	22.3	ug/Kg	112			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020404.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1122SBS02	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	21.3	ug/Kg	106			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.6	ug/Kg	103			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1120WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084962.D Lab Sample ID: VN1120WBL01

Date Analyzed: 11/20/2024 Time Analyzed: 12:21

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1120WBS02	VN1120WBS02	VN084964.D	11/20/2024
VN1120WBSD02	VN1120WBSD02	VN084982.D	11/20/2024
WB-310-SW	P4892-04	VN084984.D	11/20/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1121SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020374.D Lab Sample ID: VY1121SBL01

Date Analyzed: 11/21/2024 Time Analyzed: 09:59

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
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024
VY1121SBSD01	VY1121SBSD01	VY020376.D	11/21/2024
WB-310-TOP	P4892-01	VY020395.D	11/21/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1122SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020402.D Lab Sample ID: VY1122SBL01

Date Analyzed: 11/22/2024 Time Analyzed: 10:15

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
VY1122SBS02	VY1122SBS02	VY020404.D	11/22/2024
WB-310-BOT	P4892-02	VY020406.D	11/22/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

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

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

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

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

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

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084959.D BFB Injection Date: 11/20/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:51

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	52.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	72.4
175	5.0 - 9.0% of mass 174	5.8 (8) 1
176	95.0 - 101.0% of mass 174	68.8 (95) 1
177	5.0 - 9.0% of mass 176	4.7 (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	VN084960.D	11/20/2024	11:18
VN1120WBL01	VN1120WBL01	VN084962.D	11/20/2024	12:21
VN1120WBS02	VN1120WBS02	VN084964.D	11/20/2024	13:20
VN1120WBSD02	VN1120WBSD02	VN084982.D	11/20/2024	20:34
WB-310-SW	P4892-04	VN084984.D	11/20/2024	21:22

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020337.D BFB Injection Date: 11/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 14:40

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	21.7
75	30.0 - 60.0% of mass 95	55.3
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	0.8 (0.9) 1
174	50.0 - 100.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.4 (7.8) 1
176	95.0 - 101.0% of mass 174	79 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020338.D	11/19/2024	15:49
VSTDICC010	VSTDICC010	VY020339.D	11/19/2024	16:12
VSTDICC020	VSTDICC020	VY020340.D	11/19/2024	16:35
VSTDICCC050	VSTDICCC050	VY020341.D	11/19/2024	16:57
VSTDICC100	VSTDICC100	VY020342.D	11/19/2024	17:20
VSTDICC150	VSTDICC150	VY020343.D	11/19/2024	17:42

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020372.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:32

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.4 (95.6) 1
177	5.0 - 9.0% of mass 176	4.7 (6.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020373.D	11/21/2024	09:25
VY1121SBL01	VY1121SBL01	VY020374.D	11/21/2024	09:59
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024	10:39
VY1121SBSD01	VY1121SBSD01	VY020376.D	11/21/2024	11:02
WB-310-TOP	P4892-01	VY020395.D	11/21/2024	18:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020400.D BFB Injection Date: 11/22/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:56

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
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	72.5 (98.3) 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	VY020401.D	11/22/2024	09:40
VY1122SBL01	VY1122SBL01	VY020402.D	11/22/2024	10:15
VY1122SBS02	VY1122SBS02	VY020404.D	11/22/2024	11:04
WB-310-BOT	P4892-02	VY020406.D	11/22/2024	12:01

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084960.D Date Analyzed: 11/20/2024

Instrument ID: MSVOA_N Time Analyzed: 11:18

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	164992	8.22	271316	9.10	240365	11.87
UPPER LIMIT	329984	8.724	542632	9.6	480730	12.365
LOWER LIMIT	82496	7.724	135658	8.6	120183	11.365
EPA SAMPLE NO.						
WB-310-SW	166877	8.22	307613	9.10	262227	11.87
VN1120WBL01	178908	8.22	319489	9.10	277659	11.87
VN1120WBS02	150630	8.22	253557	9.10	229692	11.87
VN1120WBSD02	152907	8.22	266547	9.10	231842	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084960.D Date Analyzed: 11/20/2024

Instrument ID: MSVOA_N Time Analyzed: 11:18

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

	IS4 AREA #	RT #				
12 HOUR STD	122785	13.788				
UPPER LIMIT	245570	14.288				
LOWER LIMIT	61392.5	13.288				
EPA SAMPLE NO.						
WB-310-SW	114908	13.79				
VN1120WBL01	123641	13.79				
VN1120WBS02	114872	13.79				
VN1120WBSD02	119679	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

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	191018	7.71	313957	8.62	263957	11.42
UPPER LIMIT	382036	8.213	627914	9.122	527914	11.92
LOWER LIMIT	95509	7.213	156979	8.122	131979	10.92
EPA SAMPLE NO.						
WB-310-TOP	144486	7.71	282070	8.62	273380	11.41
VY1121SBL01	139506	7.71	270751	8.62	245370	11.42
VY1121SBS01	180247	7.71	303523	8.62	255135	11.42
VY1121SBSD01	168644	7.71	280583	8.62	238249	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.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

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

	IS4 AREA #	RT #				
12 HOUR STD	121826	13.352				
UPPER LIMIT	243652	13.852				
LOWER LIMIT	60913	12.852				
EPA SAMPLE NO.						
WB-310-TOP	113213	13.35				
VY1121SBL01	89046	13.35				
VY1121SBS01	121310	13.35				
VY1121SBSD01	112550	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.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020401.D Date Analyzed: 11/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:40

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	199094	7.72	315114	8.63	255079	11.43
UPPER LIMIT	398188	8.219	630228	9.128	510158	11.926
LOWER LIMIT	99547	7.219	157557	8.128	127540	10.926
EPA SAMPLE NO.						
WB-310-BOT	149521	7.71	283533	8.62	251330	11.42
VY1122SBL01	161234	7.72	306842	8.62	269008	11.43
VY1122SBS02	182116	7.72	298132	8.62	246608	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.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VY020401.D Date Analyzed: 11/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:40

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

	IS4 AREA #	RT #				
12 HOUR STD	114938	13.359				
UPPER LIMIT	229876	13.859				
LOWER LIMIT	57469	12.859				
EPA SAMPLE NO.						
WB-310-BOT	91188	13.35				
VY1122SBL01	94757	13.36				
VY1122SBS02	113255	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBL01	SDG No.:	P4892
Lab Sample ID:	VN1120WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084962.D	1		11/20/24 12:21	VN112024

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBL01	SDG No.:	P4892
Lab Sample ID:	VN1120WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084962.D	1		11/20/24 12:21	VN112024

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	51.1		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	46.1		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	8.218			
540-36-3	1,4-Difluorobenzene	319000	9.1			
3114-55-4	Chlorobenzene-d5	278000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.794			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBL01	SDG No.:	P4892
Lab Sample ID:	VN1120WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084962.D	1		11/20/24 12:21	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4892
Lab Sample ID:	VY1121SBL01	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
VY020374.D	1		11/21/24 09:59	VY112124

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4892
Lab Sample ID:	VY1121SBL01	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
VY020374.D	1		11/21/24 09:59	VY112124

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	51.9		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.713			
540-36-3	1,4-Difluorobenzene	271000	8.616			
3114-55-4	Chlorobenzene-d5	245000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	89000	13.353			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4892
Lab Sample ID:	VY1121SBL01	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
VY020374.D	1		11/21/24 09:59	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBL01	SDG No.:	P4892
Lab Sample ID:	VY1122SBL01	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
VY020402.D	1		11/22/24 10:15	VY112224

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBL01	SDG No.:	P4892
Lab Sample ID:	VY1122SBL01	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
VY020402.D	1		11/22/24 10:15	VY112224

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	47.6		70 (50) - 130 (163)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	7.72			
540-36-3	1,4-Difluorobenzene	307000	8.622			
3114-55-4	Chlorobenzene-d5	269000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	94800	13.359			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBL01	SDG No.:	P4892
Lab Sample ID:	VY1122SBL01	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
VY020402.D	1		11/22/24 10:15	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBS02	SDG No.:	P4892
Lab Sample ID:	VN1120WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084964.D	1		11/20/24 13:20	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		0.21	1.00	ug/L
74-87-3	Chloromethane	17.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.3		0.34	1.00	ug/L
74-83-9	Bromomethane	20.1		1.40	5.00	ug/L
75-00-3	Chloroethane	19.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.8		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.26	1.00	ug/L
67-64-1	Acetone	110		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	21.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.7		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.8		0.18	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.6		0.19	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.2		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	130		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 2024	Date Received:	
Client Sample ID:	VN1120WBS02	SDG No.:	P4892
Lab Sample ID:	VN1120WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084964.D	1		11/20/24 13:20	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.3		0.31	2.00	ug/L
95-47-6	o-Xylene	20.7		0.14	1.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	20.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.5		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.6		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	44.9		70 (86) - 130 (113)	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		70 (77) - 130 (121)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	151000	8.224			
540-36-3	1,4-Difluorobenzene	254000	9.1			
3114-55-4	Chlorobenzene-d5	230000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBS02	SDG No.:	P4892
Lab Sample ID:	VN1120WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084964.D	1		11/20/24 13:20	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4892
Lab Sample ID:	VY1121SBS01	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
VY020375.D	1		11/21/24 10:39	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	14.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	15.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.3		0.78	5.00	ug/Kg
67-64-1	Acetone	93.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.3		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.3		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.1		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	99.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.0		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.8		0.87	5.00	ug/Kg
71-43-2	Benzene	19.6		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.7		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4892
Lab Sample ID:	VY1121SBS01	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
VY020375.D	1		11/21/24 10:39	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.5		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.4		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.6		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.0		70 (50) - 130 (163)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		70 (54) - 130 (147)	87%	SPK: 50
2037-26-5	Toluene-d8	43.3		70 (58) - 130 (134)	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (29) - 130 (146)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	7.713			
540-36-3	1,4-Difluorobenzene	304000	8.616			
3114-55-4	Chlorobenzene-d5	255000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4892
Lab Sample ID:	VY1121SBS01	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
VY020375.D	1		11/21/24 10:39	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBS02	SDG No.:	P4892
Lab Sample ID:	VY1122SBS02	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
VY020404.D	1		11/22/24 11:04	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	25.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	15.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.6		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		0.78	5.00	ug/Kg
67-64-1	Acetone	95.0		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	20.5		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	17.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	24.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.3		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.9		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.6		0.87	5.00	ug/Kg
71-43-2	Benzene	22.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	22.8		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	22.5		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBS02	SDG No.:	P4892
Lab Sample ID:	VY1122SBS02	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
VY020404.D	1		11/22/24 11:04	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	22.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	45.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	22.6		0.70	5.00	ug/Kg
100-42-5	Styrene	23.0		0.60	5.00	ug/Kg
75-25-2	Bromoform	23.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	22.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.3		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	21.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.6		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	52.9		70 (58) - 130 (134)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		70 (29) - 130 (146)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	7.719			
540-36-3	1,4-Difluorobenzene	298000	8.622			
3114-55-4	Chlorobenzene-d5	247000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1122SBS02	SDG No.:	P4892
Lab Sample ID:	VY1122SBS02	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
VY020404.D	1		11/22/24 11:04	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBSD02	SDG No.:	P4892
Lab Sample ID:	VN1120WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084982.D	1		11/20/24 20:34	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.7		0.21	1.00	ug/L
74-87-3	Chloromethane	16.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	1.00	ug/L
74-83-9	Bromomethane	19.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.7		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.9		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.2		0.18	1.00	ug/L
67-66-3	Chloroform	19.4		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.19	1.00	ug/L
71-43-2	Benzene	17.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	18.5		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBSD02	SDG No.:	P4892
Lab Sample ID:	VN1120WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084982.D	1		11/20/24 20:34	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.9		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	36.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.1		0.14	1.00	ug/L
100-42-5	Styrene	17.9		0.16	1.00	ug/L
75-25-2	Bromoform	19.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.8		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	15.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.1		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	15.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	13.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	13.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	47.2		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	232000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1120WBSD02	SDG No.:	P4892
Lab Sample ID:	VN1120WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084982.D	1		11/20/24 20:34	VN112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBSD01	SDG No.:	P4892
Lab Sample ID:	VY1121SBSD01	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
VY020376.D	1		11/21/24 11:02	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.8		1.70	5.00	ug/Kg
74-87-3	Chloromethane	14.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	16.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.8		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.8		0.78	5.00	ug/Kg
67-64-1	Acetone	95.5		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	21.0		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.0		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	19.5		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.8		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	23.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.8		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.4		0.87	5.00	ug/Kg
71-43-2	Benzene	21.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	23.1		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.8		0.67	5.00	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBSD01	SDG No.:	P4892
Lab Sample ID:	VY1121SBSD01	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
VY020376.D	1		11/21/24 11:02	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.0		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.5		0.70	5.00	ug/Kg
100-42-5	Styrene	22.1		0.60	5.00	ug/Kg
75-25-2	Bromoform	22.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		70 (50) - 130 (163)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	52.8		70 (58) - 130 (134)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2		70 (29) - 130 (146)	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.713			
540-36-3	1,4-Difluorobenzene	281000	8.615			
3114-55-4	Chlorobenzene-d5	238000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.352			

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1121SBSD01	SDG No.:	P4892
Lab Sample ID:	VY1121SBSD01	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
VY020376.D	1		11/21/24 11:02	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

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

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

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

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

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

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

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

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

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

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

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

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

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

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42

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

LAB FILE ID: RRF005 = VY020338.D RRF010 = VY020339.D RRF020 = VY020340.D
RRF050 = VY020341.D RRF100 = VY020342.D RRF150 = VY020343.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.573	0.448	0.467	0.454	0.465	0.506	0.485	9.8
Chloromethane	0.989	0.788	0.765	0.681	0.589	0.599	0.735	20.3
Vinyl Chloride	0.816	0.722	0.664	0.622	0.572	0.599	0.666	13.6
Bromomethane	0.415	0.391	0.293	0.314	0.280	0.302	0.333	16.9
Chloroethane	0.531	0.376	0.362	0.370	0.334	0.357	0.388	18.3
Trichlorofluoromethane	1.130	0.863	0.896	0.931	0.821	0.910	0.925	11.6
1,1,2-Trichlorotrifluoroethane	0.666	0.508	0.536	0.592	0.479	0.525	0.551	12.3
1,1-Dichloroethene	0.647	0.492	0.536	0.586	0.488	0.524	0.545	11.2
Acetone	0.160	0.110	0.132	0.160	0.141	0.123	0.138	14.7
Carbon Disulfide	2.169	1.635	1.750	2.073	1.647	1.753	1.838	12.4
Methyl tert-butyl Ether	1.574	1.297	1.482	1.399	1.404	1.346	1.417	7
Methyl Acetate	0.388	0.283	0.339	0.302	0.327	0.288	0.321	12.2
Methylene Chloride	0.693	0.546	0.595	0.571	0.543	0.552	0.583	9.8
trans-1,2-Dichloroethene	0.721	0.563	0.627	0.601	0.552	0.571	0.606	10.4
1,1-Dichloroethane	1.461	1.141	1.083	1.137	1.101	1.117	1.173	12.2
Cyclohexane	1.318	1.107	1.004	1.035	0.969	0.991	1.071	12.2
2-Butanone	0.179	0.176	0.168	0.180	0.197	0.165	0.177	6.5
Carbon Tetrachloride	0.575	0.500	0.500	0.478	0.483	0.533	0.511	7.2
cis-1,2-Dichloroethene	0.710	0.664	0.643	0.687	0.647	0.653	0.667	3.9
Bromochloromethane	0.534	0.553	0.441	0.509	0.450	0.476	0.494	9.2
Chloroform	1.198	1.161	1.069	1.236	1.064	1.072	1.133	6.6
1,1,1-Trichloroethane	1.068	1.042	0.941	0.997	0.940	0.982	0.995	5.3
Methylcyclohexane	0.695	0.587	0.612	0.583	0.570	0.630	0.613	7.5
Benzene	1.632	1.376	1.440	1.348	1.378	1.435	1.435	7.2
1,2-Dichloroethane	0.416	0.372	0.398	0.364	0.386	0.389	0.387	4.8
Trichloroethene	0.388	0.331	0.343	0.320	0.318	0.339	0.340	7.5
1,2-Dichloropropane	0.374	0.331	0.348	0.319	0.334	0.347	0.342	5.5
Bromodichloromethane	0.525	0.458	0.479	0.492	0.463	0.490	0.484	5
4-Methyl-2-Pentanone	0.210	0.190	0.219	0.246	0.245	0.219	0.221	9.7
Toluene	0.970	0.836	0.890	0.850	0.829	0.889	0.877	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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42

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

LAB FILE ID: RRF005 = VY020338.D RRF010 = VY020339.D RRF020 = VY020340.D
RRF050 = VY020341.D RRF100 = VY020342.D RRF150 = VY020343.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.534	0.401	0.446	0.448	0.456	0.463	0.458	9.5
cis-1,3-Dichloropropene	0.541	0.493	0.527	0.505	0.530	0.551	0.524	4.1
1,1,2-Trichloroethane	0.250	0.223	0.263	0.219	0.222	0.221	0.233	8.1
2-Hexanone	0.142	0.135	0.160	0.171	0.177	0.155	0.157	10.3
Dibromochloromethane	0.319	0.273	0.307	0.305	0.297	0.300	0.300	5.1
1,2-Dibromoethane	0.247	0.200	0.221	0.217	0.204	0.206	0.216	8.1
Tetrachloroethene	0.402	0.344	0.401	0.331	0.333	0.350	0.360	9.1
Chlorobenzene	1.258	1.079	1.083	1.144	1.040	1.085	1.115	7
Ethyl Benzene	2.319	1.973	2.002	2.051	1.932	2.063	2.057	6.7
m/p-Xylenes	0.829	0.725	0.742	0.708	0.696	0.745	0.741	6.4
o-Xylene	0.770	0.694	0.711	0.668	0.666	0.706	0.703	5.4
Styrene	1.261	1.128	1.165	1.131	1.131	1.188	1.167	4.5
Bromoform	0.207	0.180	0.195	0.189	0.199	0.194	0.194	4.7
Isopropylbenzene	4.851	4.028	4.070	4.314	3.899	4.251	4.236	8
1,1,2,2-Tetrachloroethane	0.729	0.646	0.683	0.728	0.676	0.646	0.685	5.4
1,3-Dichlorobenzene	2.072	1.668	1.839	1.848	1.621	1.719	1.794	9.1
1,4-Dichlorobenzene	1.938	1.651	1.709	1.730	1.579	1.679	1.714	7.1
1,2-Dichlorobenzene	1.630	1.401	1.506	1.547	1.414	1.474	1.495	5.7
1,2-Dibromo-3-Chloropropane	0.130	0.098	0.108	0.119	0.113	0.105	0.112	10
1,2,4-Trichlorobenzene	0.974	0.841	0.856	0.894	0.900	0.958	0.904	5.9
1,2,3-Trichlorobenzene	0.817	0.784	0.721	0.748	0.762	0.806	0.773	4.7
1,2-Dichloroethane-d4	0.609	0.523	0.545	0.636	0.563	0.571	0.574	7.3
Dibromofluoromethane	0.346	0.347	0.307	0.323	0.288	0.312	0.321	7.2
Toluene-d8	1.397	1.186	1.208	1.398	1.130	1.259	1.263	8.9
4-Bromofluorobenzene	0.459	0.381	0.384	0.430	0.369	0.413	0.406	8.5

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_N Calibration Date/Time: 11/20/2024 11:18

Lab File ID: VN084960.D Init. Calib. Date(s): 10/30/2024 10/30/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.575	0.624		8.52	20
Chloromethane	0.952	0.671	0.1	-29.52	20
Vinyl Chloride	0.618	0.652		5.5	20
Bromomethane	0.328	0.340		3.66	20
Chloroethane	0.488	0.408		-16.39	20
Trichlorofluoromethane	1.018	1.068		4.91	20
1,1,2-Trichlorotrifluoroethane	0.575	0.616		7.13	20
1,1-Dichloroethene	0.569	0.576		1.23	20
Acetone	0.238	0.200		-15.97	20
Carbon Disulfide	1.753	1.680		-4.16	20
Methyl tert-butyl Ether	1.745	1.961		12.38	20
Methyl Acetate	1.172	0.768		-34.47	20
Methylene Chloride	0.635	0.652		2.68	20
trans-1,2-Dichloroethene	0.585	0.594		1.54	20
1,1-Dichloroethane	1.102	1.147	0.1	4.08	20
Cyclohexane	0.997	1.018		2.11	20
2-Butanone	0.337	0.365		8.31	20
Carbon Tetrachloride	0.525	0.576		9.71	20
cis-1,2-Dichloroethene	0.683	0.719		5.27	20
Bromochloromethane	0.439	0.438		-0.23	20
Chloroform	1.121	1.175		4.82	20
1,1,1-Trichloroethane	1.021	1.085		6.27	20
Methylcyclohexane	0.478	0.571		19.46	20
Benzene	1.507	1.573		4.38	20
1,2-Dichloroethane	0.488	0.528		8.2	20
Trichloroethene	0.348	0.365		4.89	20
1,2-Dichloropropane	0.354	0.384		8.48	20
Bromodichloromethane	0.526	0.569		8.18	20
4-Methyl-2-Pentanone	0.406	0.504		24.14	20
Toluene	0.882	0.995		12.81	20
t-1,3-Dichloropropene	0.544	0.592		8.82	20
cis-1,3-Dichloropropene	0.576	0.634		10.07	20
1,1,2-Trichloroethane	0.332	0.361		8.73	20
2-Hexanone	0.296	0.396		33.78	20
Dibromochloromethane	0.378	0.434		14.81	20
1,2-Dibromoethane	0.340	0.370		8.82	20
Tetrachloroethene	0.333	0.356		6.91	20
Chlorobenzene	1.119	1.182	0.3	5.63	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_N Calibration Date/Time: 11/20/2024 11:18

Lab File ID: VN084960.D Init. Calib. Date(s): 10/30/2024 10/30/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.867	2.112		13.12	20
m/p-Xylenes	0.707	0.815		15.28	20
o-Xylene	0.661	0.779		17.85	20
Styrene	1.154	1.329		15.16	20
Bromoform	0.293	0.330	0.1	12.63	20
Isopropylbenzene	3.504	3.902		11.36	20
1,1,2,2-Tetrachloroethane	1.170	1.194	0.3	2.05	20
1,3-Dichlorobenzene	1.838	1.743		-5.17	20
1,4-Dichlorobenzene	1.937	1.741		-10.12	20
1,2-Dichlorobenzene	1.766	1.729		-2.1	20
1,2-Dibromo-3-Chloropropane	0.237	0.253		6.75	20
1,2,4-Trichlorobenzene	0.967	0.914		-5.48	20
1,2,3-Trichlorobenzene	0.939	0.869		-7.45	20
1,2-Dichloroethane-d4	0.722	0.653		-9.56	20
Dibromofluoromethane	0.338	0.317		-6.21	20
Toluene-d8	1.247	1.145		-8.18	20
4-Bromofluorobenzene	0.466	0.449		-3.65	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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25

Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.485	0.554		14.23	20
Chloromethane	0.735	0.578	0.1	-21.36	20
Vinyl Chloride	0.666	0.567		-14.86	20
Bromomethane	0.333	0.304		-8.71	20
Chloroethane	0.388	0.335		-13.66	20
Trichlorofluoromethane	0.925	0.962		4	20
1,1,2-Trichlorotrifluoroethane	0.551	0.533		-3.27	20
1,1-Dichloroethene	0.545	0.530		-2.75	20
Acetone	0.138	0.163		18.12	20
Carbon Disulfide	1.838	1.752		-4.68	20
Methyl tert-butyl Ether	1.417	1.447		2.12	20
Methyl Acetate	0.321	0.327		1.87	20
Methylene Chloride	0.583	0.567		-2.74	20
trans-1,2-Dichloroethene	0.606	0.581		-4.13	20
1,1-Dichloroethane	1.173	1.127	0.1	-3.92	20
Cyclohexane	1.071	1.017		-5.04	20
2-Butanone	0.177	0.204		15.25	20
Carbon Tetrachloride	0.511	0.577		12.92	20
cis-1,2-Dichloroethene	0.667	0.667		0	20
Bromochloromethane	0.494	0.461		-6.68	20
Chloroform	1.133	1.101		-2.82	20
1,1,1-Trichloroethane	0.995	1.042		4.72	20
Methylcyclohexane	0.613	0.632		3.1	20
Benzene	1.435	1.479		3.07	20
1,2-Dichloroethane	0.387	0.423		9.3	20
Trichloroethene	0.340	0.348		2.35	20
1,2-Dichloropropane	0.342	0.348		1.75	20
Bromodichloromethane	0.484	0.509		5.16	20
4-Methyl-2-Pentanone	0.221	0.244		10.41	20
Toluene	0.877	0.905		3.19	20
t-1,3-Dichloropropene	0.458	0.480		4.8	20
cis-1,3-Dichloropropene	0.524	0.559		6.68	20
1,1,2-Trichloroethane	0.233	0.236		1.29	20
2-Hexanone	0.157	0.185		17.83	20
Dibromochloromethane	0.300	0.320		6.67	20
1,2-Dibromoethane	0.216	0.221		2.32	20
Tetrachloroethene	0.360	0.362		0.56	20
Chlorobenzene	1.115	1.107	0.3	-0.72	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25

Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.057	2.103		2.24	20
m/p-Xylenes	0.741	0.763		2.97	20
o-Xylene	0.703	0.723		2.85	20
Styrene	1.167	1.231		5.48	20
Bromoform	0.194	0.213	0.1	9.79	20
Isopropylbenzene	4.236	4.245		0.21	20
1,1,2,2-Tetrachloroethane	0.685	0.699	0.3	2.04	20
1,3-Dichlorobenzene	1.794	1.751		-2.4	20
1,4-Dichlorobenzene	1.714	1.699		-0.88	20
1,2-Dichlorobenzene	1.495	1.513		1.2	20
1,2-Dibromo-3-Chloropropane	0.112	0.112		0	20
1,2,4-Trichlorobenzene	0.904	0.922		1.99	20
1,2,3-Trichlorobenzene	0.773	0.768		-0.65	20
1,2-Dichloroethane-d4	0.574	0.598		4.18	20
Dibromofluoromethane	0.321	0.316		-1.56	20
Toluene-d8	1.263	1.242		-1.66	20
4-Bromofluorobenzene	0.406	0.415		2.22	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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date/Time: 11/22/2024 09:40

Lab File ID: VY020401.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.485	0.559		15.26	20
Chloromethane	0.735	0.555	0.1	-24.49	20
Vinyl Chloride	0.666	0.563		-15.47	20
Bromomethane	0.333	0.308		-7.51	20
Chloroethane	0.388	0.332		-14.43	20
Trichlorofluoromethane	0.925	0.989		6.92	20
1,1,2-Trichlorotrifluoroethane	0.551	0.552		0.18	20
1,1-Dichloroethene	0.545	0.541		-0.73	20
Acetone	0.138	0.143		3.62	20
Carbon Disulfide	1.838	1.754		-4.57	20
Methyl tert-butyl Ether	1.417	1.349		-4.8	20
Methyl Acetate	0.321	0.284		-11.53	20
Methylene Chloride	0.583	0.546		-6.35	20
trans-1,2-Dichloroethene	0.606	0.585		-3.46	20
1,1-Dichloroethane	1.173	1.087	0.1	-7.33	20
Cyclohexane	1.071	1.017		-5.04	20
2-Butanone	0.177	0.179		1.13	20
Carbon Tetrachloride	0.511	0.607		18.79	20
cis-1,2-Dichloroethene	0.667	0.653		-2.1	20
Bromochloromethane	0.494	0.432		-12.55	20
Chloroform	1.133	1.084		-4.32	20
1,1,1-Trichloroethane	0.995	1.045		5.03	20
Methylcyclohexane	0.613	0.678		10.6	20
Benzene	1.435	1.495		4.18	20
1,2-Dichloroethane	0.387	0.406		4.91	20
Trichloroethene	0.340	0.363		6.76	20
1,2-Dichloropropane	0.342	0.346		1.17	20
Bromodichloromethane	0.484	0.496		2.48	20
4-Methyl-2-Pentanone	0.221	0.221		0	20
Toluene	0.877	0.922		5.13	20
t-1,3-Dichloropropene	0.458	0.465		1.53	20
cis-1,3-Dichloropropene	0.524	0.555		5.92	20
1,1,2-Trichloroethane	0.233	0.227		-2.58	20
2-Hexanone	0.157	0.167		6.37	20
Dibromochloromethane	0.300	0.315		5	20
1,2-Dibromoethane	0.216	0.211		-2.32	20
Tetrachloroethene	0.360	0.390		8.33	20
Chlorobenzene	1.115	1.152	0.3	3.32	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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_Y Calibration Date/Time: 11/22/2024 09:40

Lab File ID: VY020401.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.057	2.201		7	20
m/p-Xylenes	0.741	0.797		7.56	20
o-Xylene	0.703	0.745		5.97	20
Styrene	1.167	1.258		7.8	20
Bromoform	0.194	0.214	0.1	10.31	20
Isopropylbenzene	4.236	4.572		7.93	20
1,1,2,2-Tetrachloroethane	0.685	0.683	0.3	-0.29	20
1,3-Dichlorobenzene	1.794	1.819		1.39	20
1,4-Dichlorobenzene	1.714	1.766		3.03	20
1,2-Dichlorobenzene	1.495	1.545		3.34	20
1,2-Dibromo-3-Chloropropane	0.112	0.113		0.89	20
1,2,4-Trichlorobenzene	0.904	0.904		0	20
1,2,3-Trichlorobenzene	0.773	0.732		-5.3	20
1,2-Dichloroethane-d4	0.574	0.585		1.92	20
Dibromofluoromethane	0.321	0.339		5.61	20
Toluene-d8	1.263	1.353		7.13	20
4-Bromofluorobenzene	0.406	0.442		8.87	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\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Time: Nov 22 02:44:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

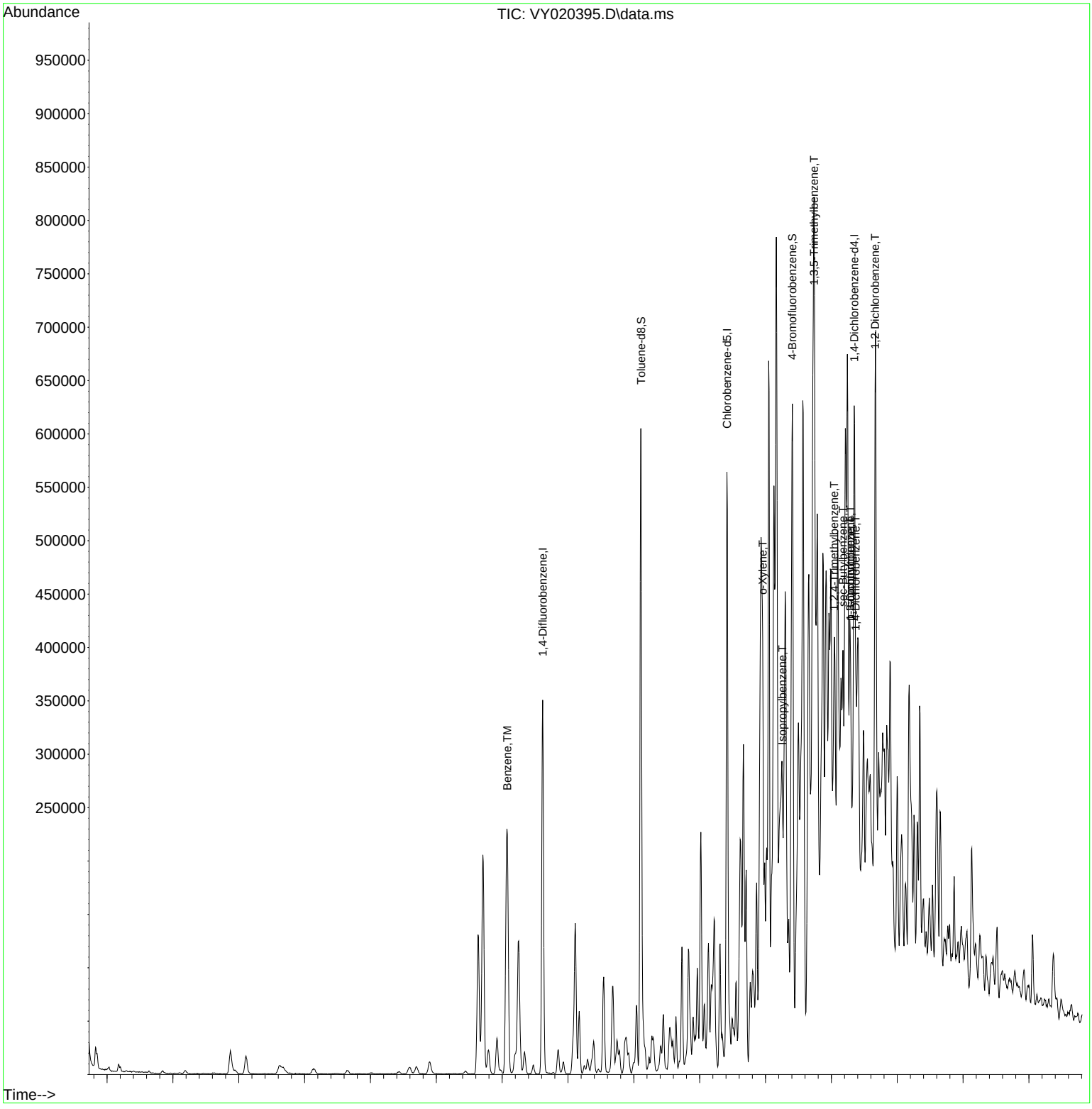
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	144486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	282070	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	273380	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	113213	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101220	60.977	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.960%			
35) Dibromofluoromethane	7.634	113	91753	50.728	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.460%			
50) Toluene-d8	10.109	98	348748	48.948	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.900%			
62) 4-Bromofluorobenzene	12.408	95	134960	58.924	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 117.840%			
Target Compounds						Qvalue
16) Acetone	3.873	43	40045	100.630	ug/l	99
17) Carbon Disulfide	4.110	76	33718	6.350	ug/l	99
25) 2-Butanone	6.903	43	18255	35.633	ug/l	95
39) Methylcyclohexane	9.103	83	43848	12.682	ug/l	89
40) Benzene	8.079	78	161482	19.946	ug/l	99
52) Toluene	10.170	92	8356	1.689	ug/l	99
65) Chlorobenzene	11.438	112	9046	1.484	ug/l	95
67) Ethyl Benzene	11.518	91	12363	1.099	ug/l	98
68) m/p-Xylenes	11.627	106	41068	10.139	ug/l	94
69) o-Xylene	11.957	106	58317	15.179	ug/l	97
73) Isopropylbenzene	12.255	105	12934	1.349	ug/l	99
78) n-propylbenzene	12.597	91	14898	1.294	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	44208	5.704	ug/l	97
84) 1,2,4-Trimethylbenzene	13.042	105	72471	9.431	ug/l	99
85) sec-Butylbenzene	13.176	105	13719	1.272	ug/l #	58
86) p-Isopropyltoluene	13.292	119	20601	2.471	ug/l	93
87) 1,3-Dichlorobenzene	13.292	146	21351	5.255	ug/l #	35
88) 1,4-Dichlorobenzene	13.371	146	20934	5.393	ug/l #	32
89) n-Butylbenzene	13.621	91	11336	1.420	ug/l #	80
91) 1,2-Dichlorobenzene	13.664	146	6405	1.892	ug/l #	19

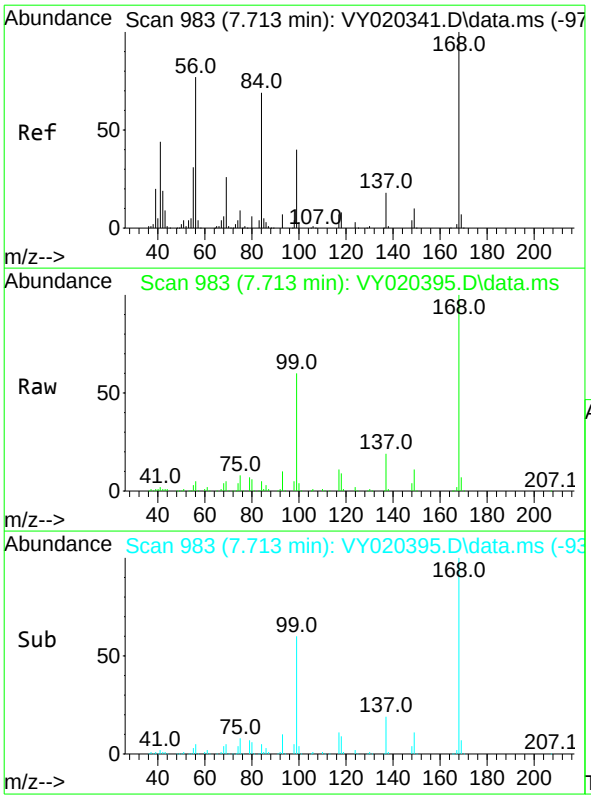
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Time: Nov 22 02:44:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



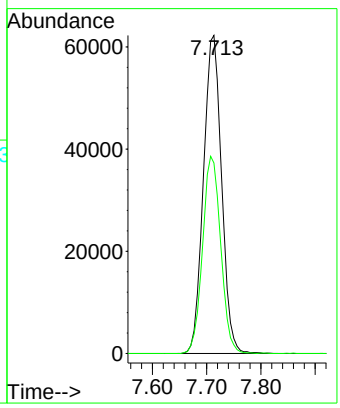


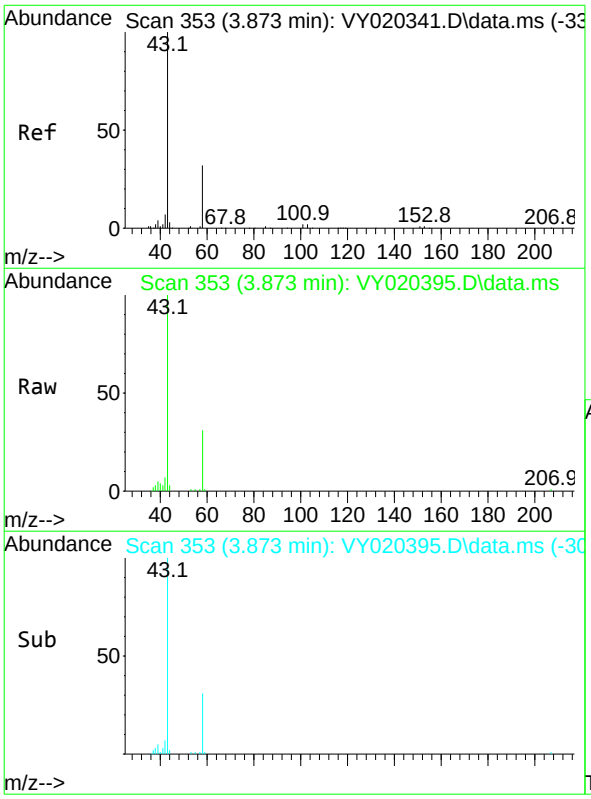
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:168 Resp: 144486

Ion	Ratio	Lower	Upper
168	100		
99	59.9	46.6	69.8

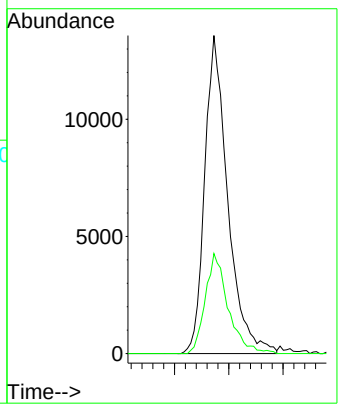




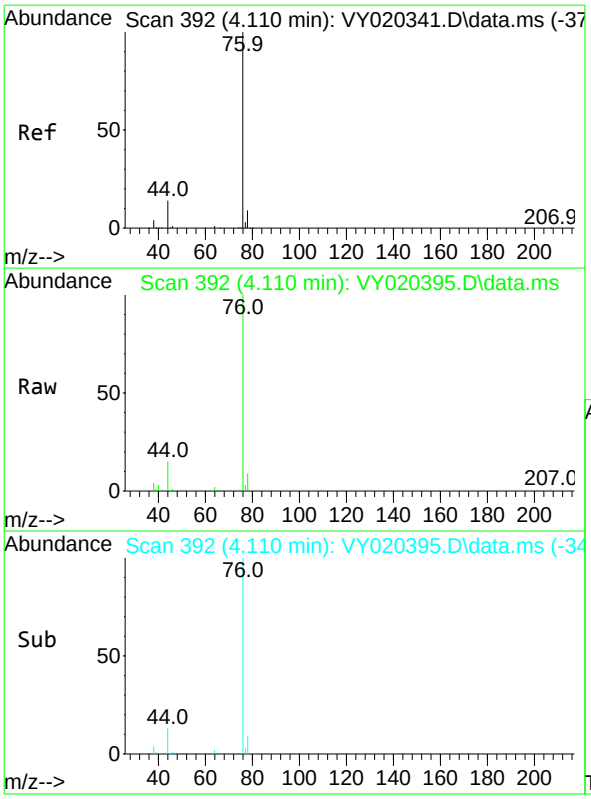
#16
Acetone
Concen: 100.630 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 43 Resp: 40045

Ion	Ratio	Lower	Upper
43	100		
58	31.5	25.7	38.5



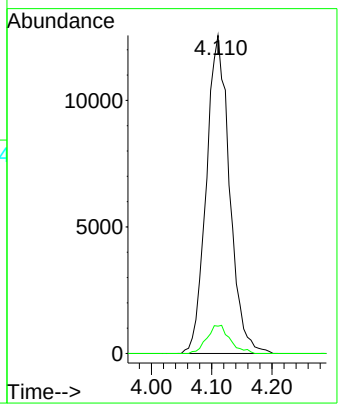
Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

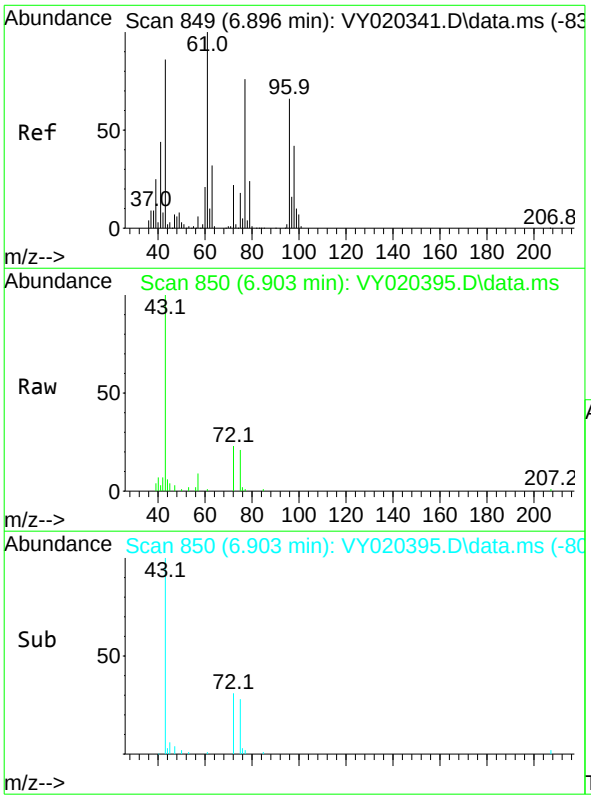


#17
Carbon Disulfide
Concen: 6.350 ug/l
RT: 4.110 min Scan# 39
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 76 Resp: 33718

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.3	10.9

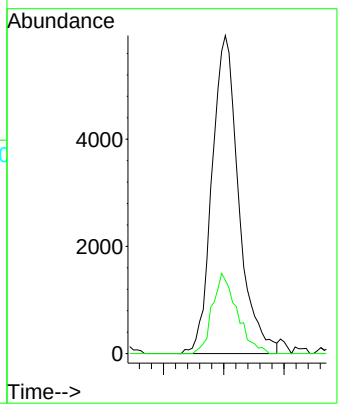


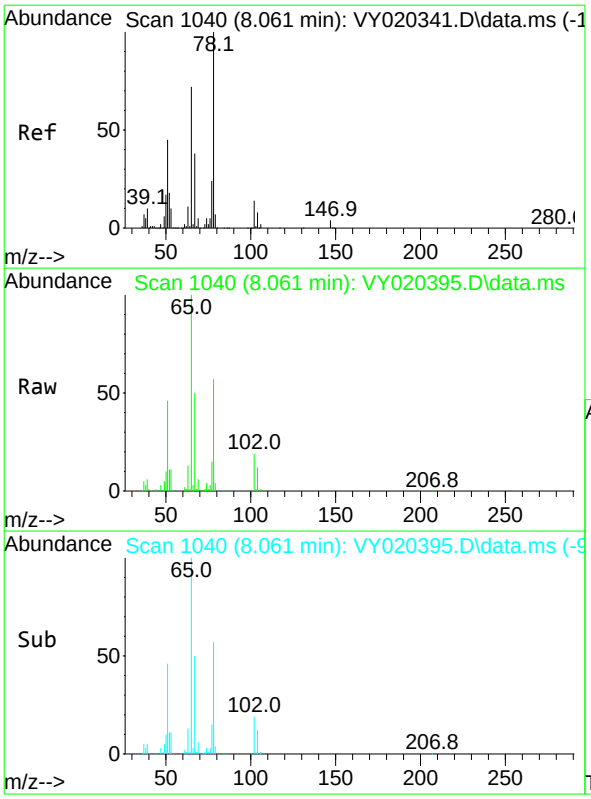


#25
2-Butanone
Concen: 35.633 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 43 Resp: 18255

Ion	Ratio	Lower	Upper
43	100		
72	23.0	20.4	30.6



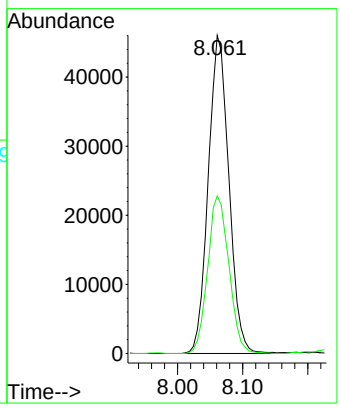


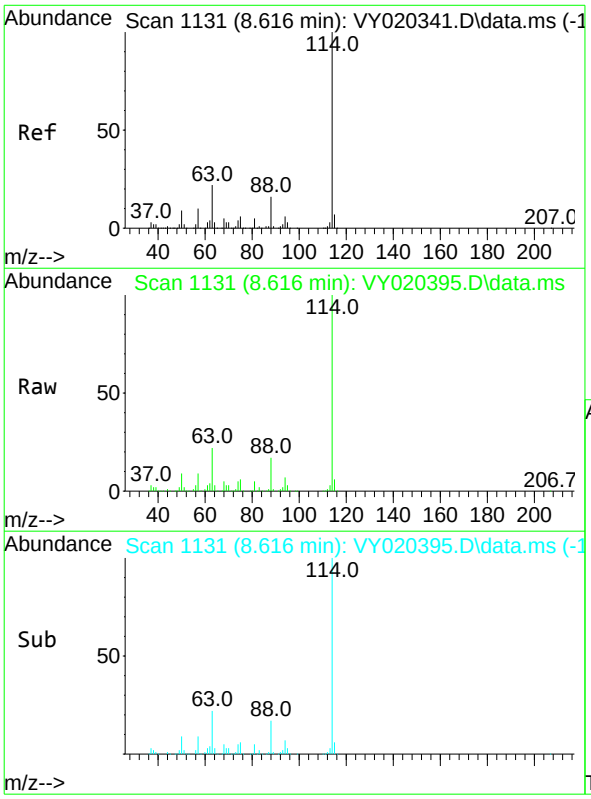
#33
1,2-Dichloroethane-d4
Concen: 60.977 ug/l
RT: 8.061 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion: 65 Resp: 101220

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	105.8

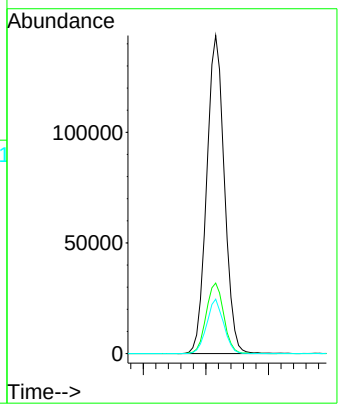


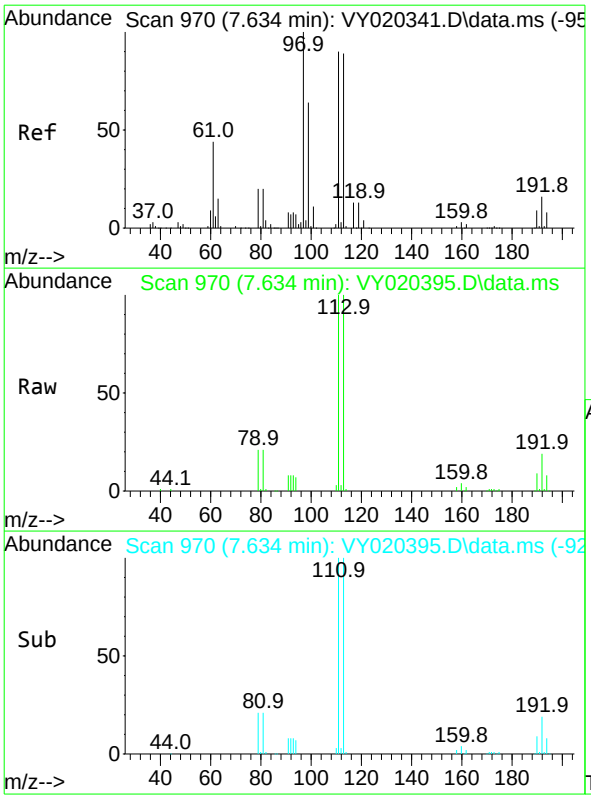


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:114 Resp: 282070

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.8
88	17.1	0.0	32.0



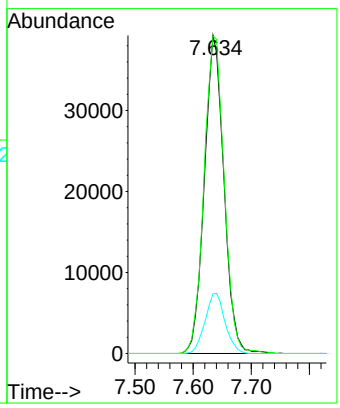


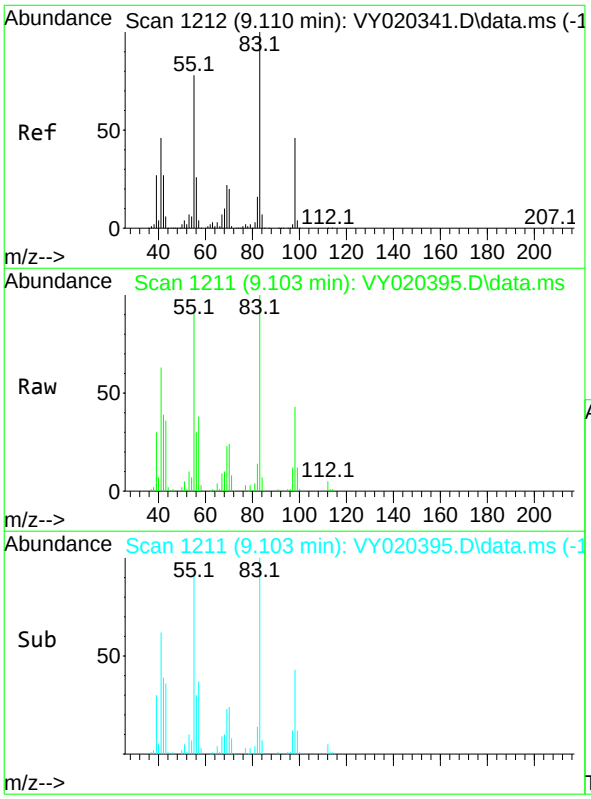
#35
Dibromofluoromethane
Concen: 50.728 ug/l
RT: 7.634 min Scan# 97
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:113 Resp: 91753

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.4	122.0
192	19.2	15.1	22.7

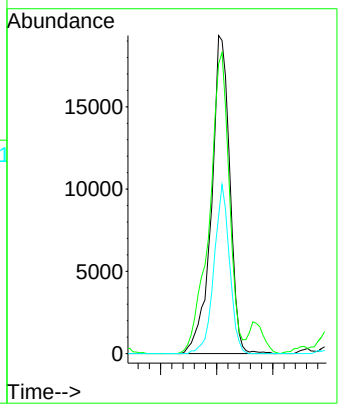


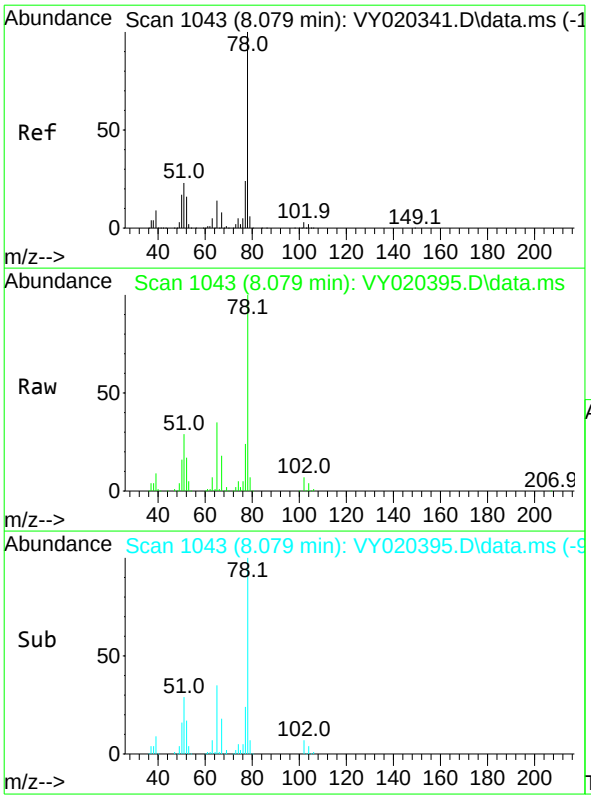


#39
Methylcyclohexane
Concen: 12.682 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 83 Resp: 43848

Ion	Ratio	Lower	Upper
83	100		
55	91.1	62.6	93.8
98	43.3	37.0	55.4



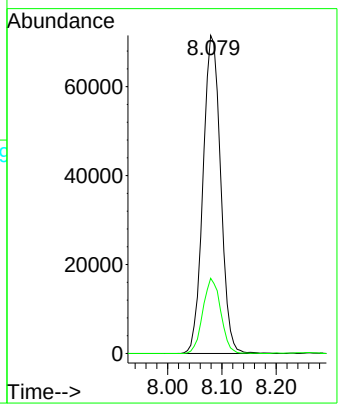


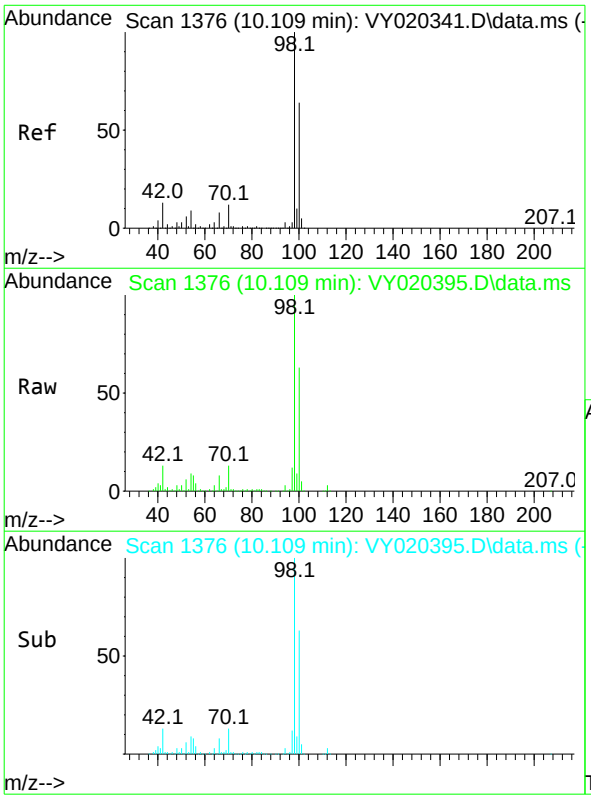
#40
Benzene
Concen: 19.946 ug/l
RT: 8.079 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion: 78 Resp: 161482

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.0

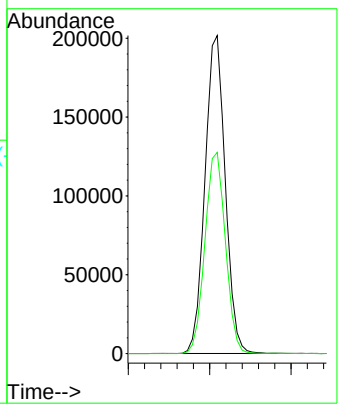


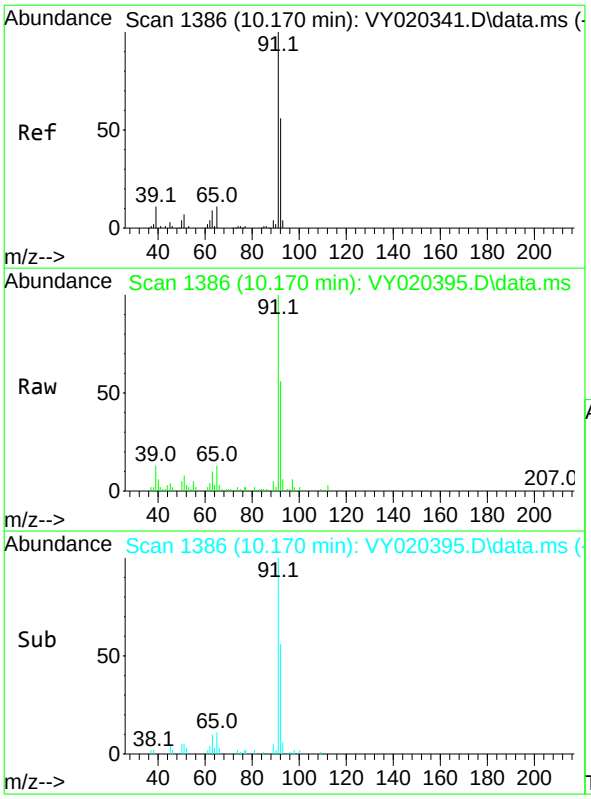


#50
Toluene-d8
Concen: 48.948 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 98 Resp: 348748

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.3	76.9



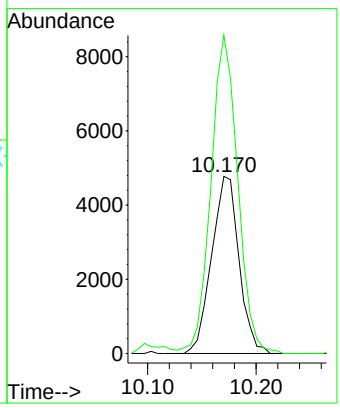


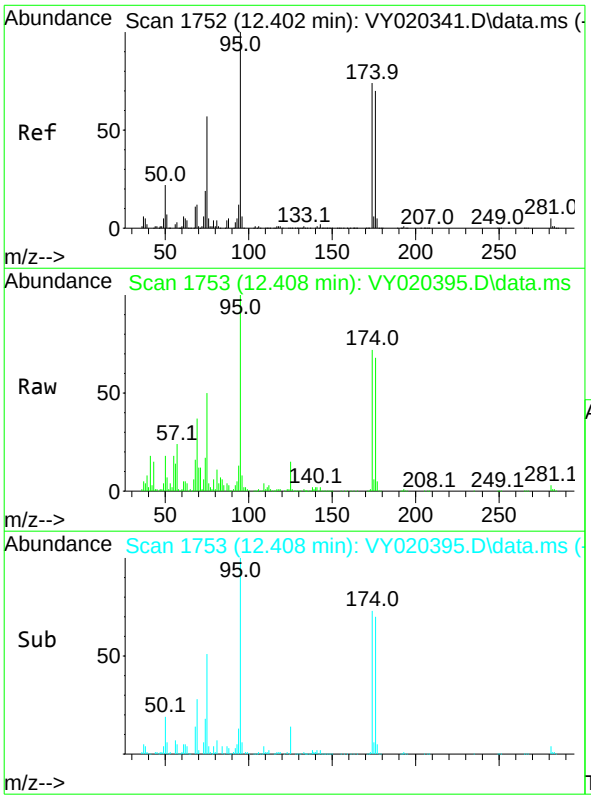
#52
Toluene
Concen: 1.689 ug/l
RT: 10.170 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion: 92 Resp: 8356

Ion	Ratio	Lower	Upper
92	100		
91	176.1	139.7	209.5

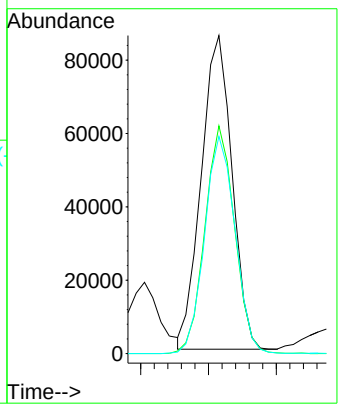


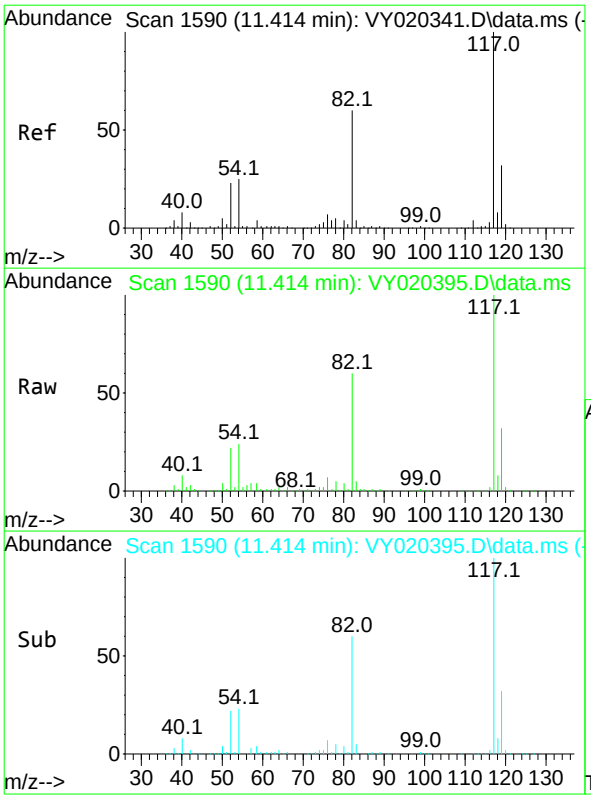


#62
4-Bromofluorobenzene
Concen: 58.924 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 95 Resp: 134960

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	156.8
176	68.6	0.0	152.0



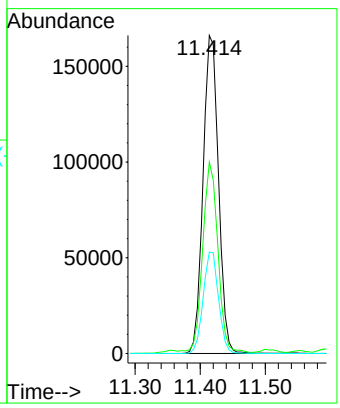


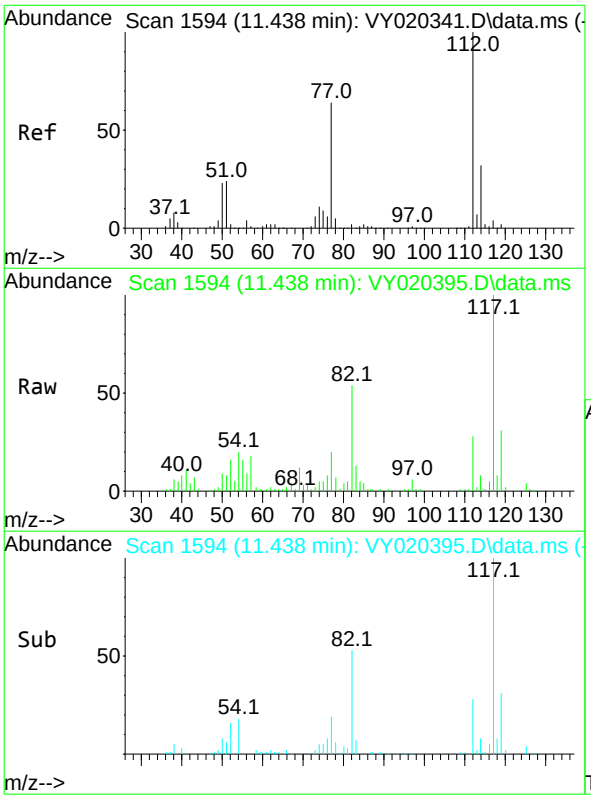
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:117 Resp: 273380

Ion	Ratio	Lower	Upper
117	100		
82	59.4	48.2	72.4
119	31.9	25.8	38.8

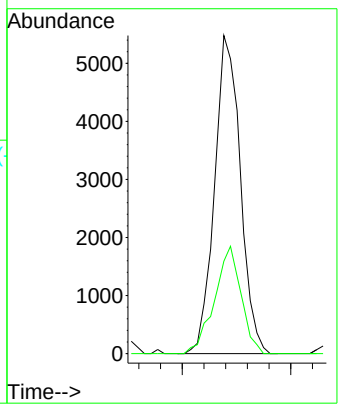


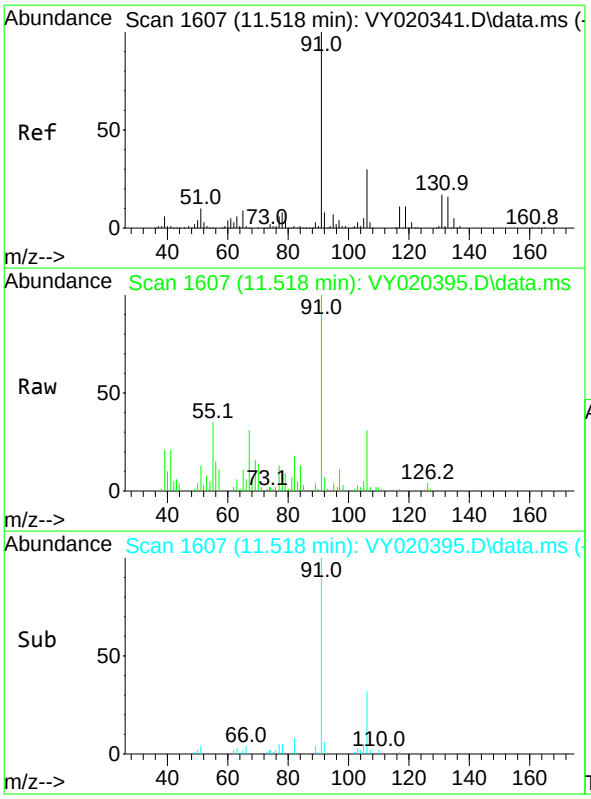


#65
Chlorobenzene
Concen: 1.484 ug/l
RT: 11.438 min Scan# 1594
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:112 Resp: 9046

Ion	Ratio	Lower	Upper
112	100		
114	29.0	25.7	38.5



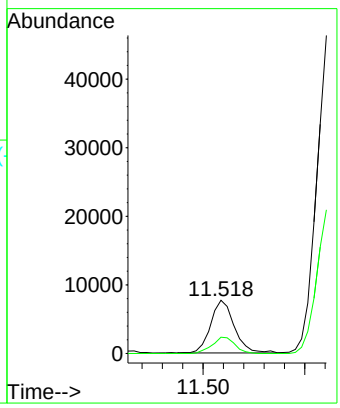


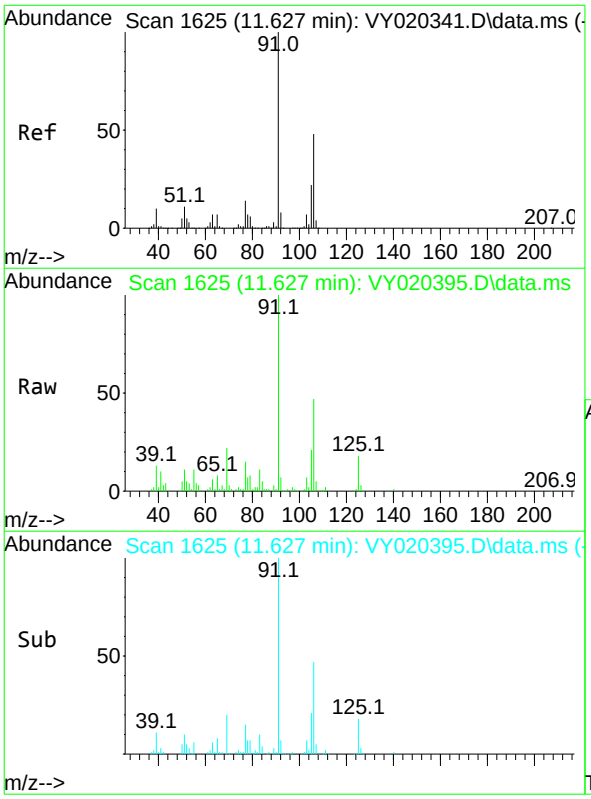
#67
Ethyl Benzene
Concen: 1.099 ug/l
RT: 11.518 min Scan# 16
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion: 91 Resp: 12363

Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.9	35.9

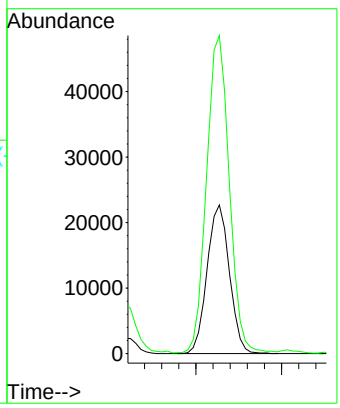


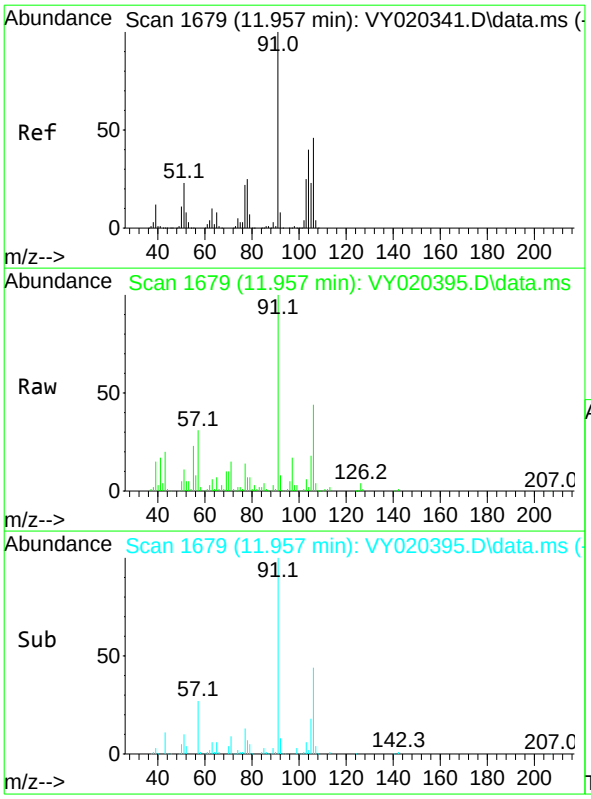


#68
m/p-Xylenes
Concen: 10.139 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:106 Resp: 41068

Ion	Ratio	Lower	Upper
106	100		
91	216.3	166.0	249.0



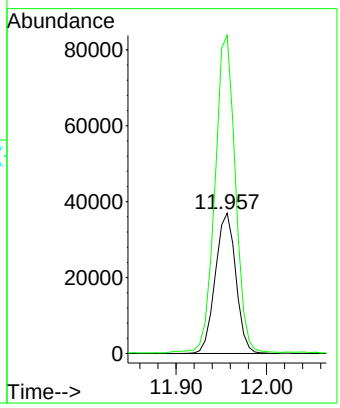


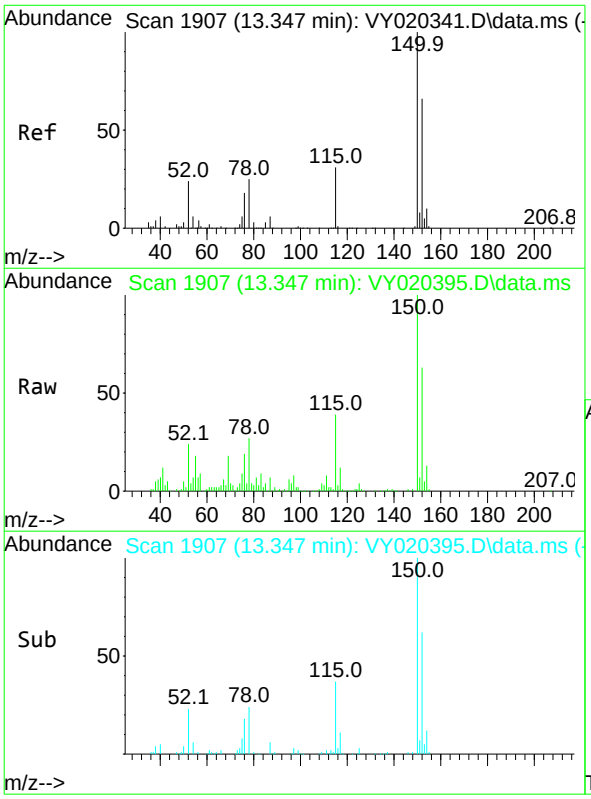
#69
o-Xylene
Concen: 15.179 ug/l
RT: 11.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:106 Resp: 58317

Ion	Ratio	Lower	Upper
106	100		
91	225.4	110.0	330.0

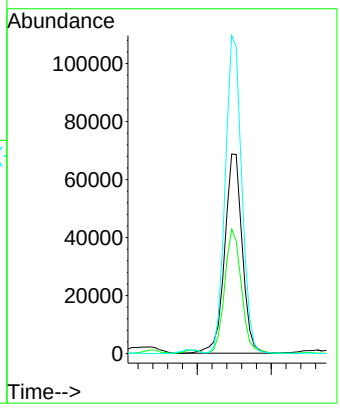


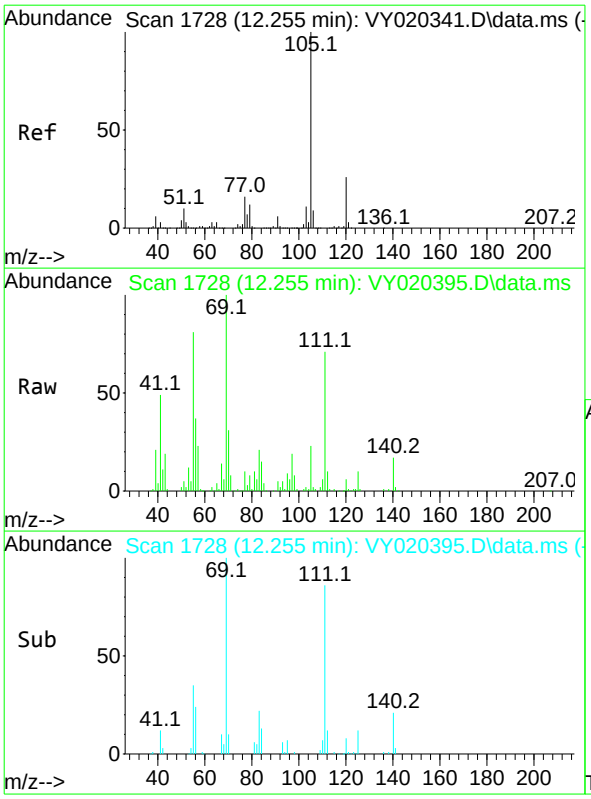


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:152 Resp: 113213

Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.0	90.0
150	149.9	0.0	348.2



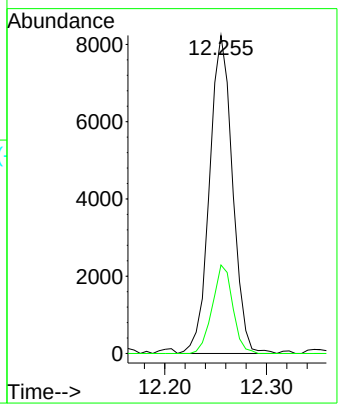


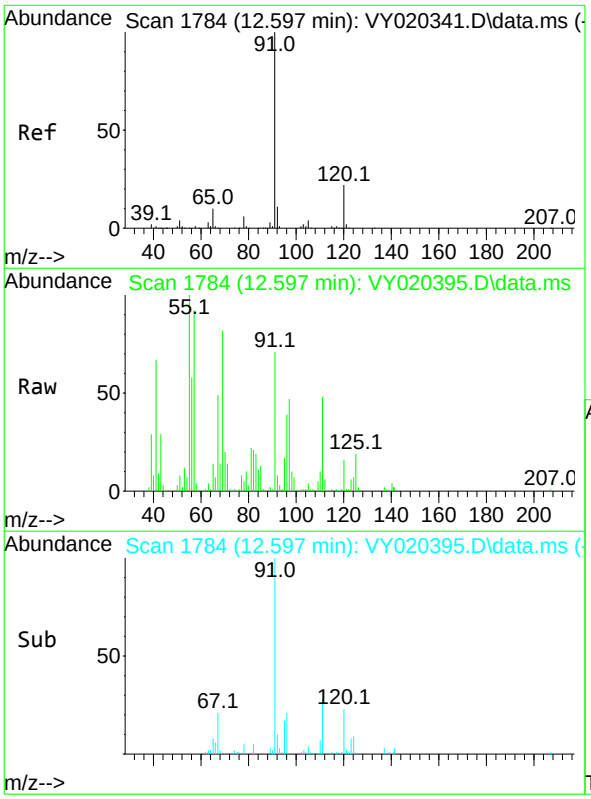
#73
Isopropylbenzene
Concen: 1.349 ug/l
RT: 12.255 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:105 Resp: 12934

Ion	Ratio	Lower	Upper
105	100		
120	24.7	12.7	38.1

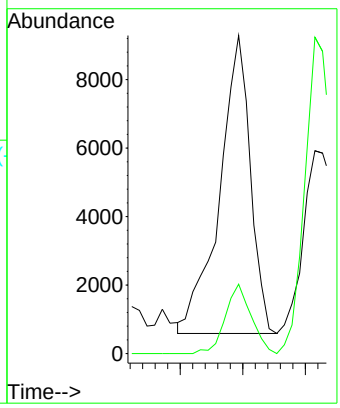


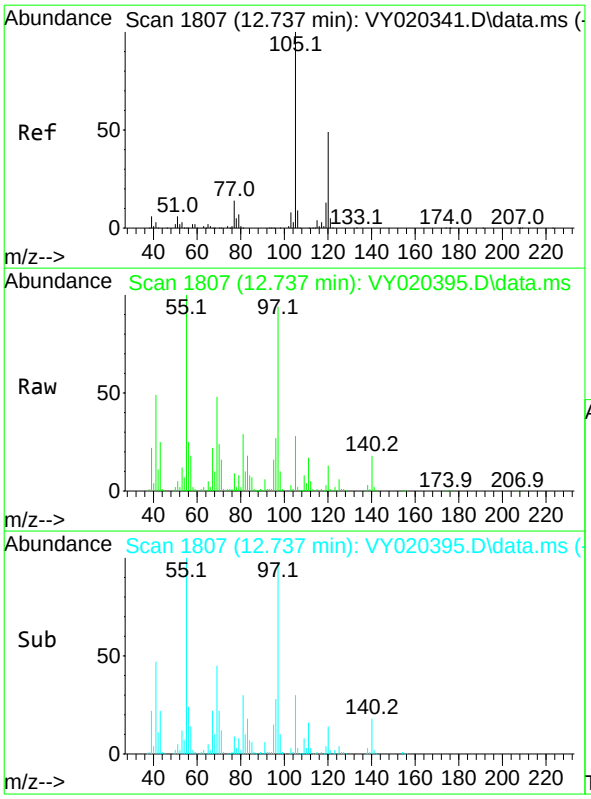


#78
n-propylbenzene
Concen: 1.294 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion: 91 Resp: 14898

Ion	Ratio	Lower	Upper
91	100		
120	19.6	10.9	32.6



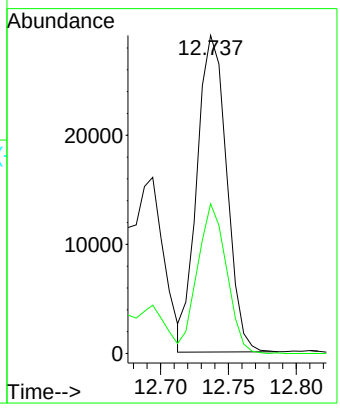


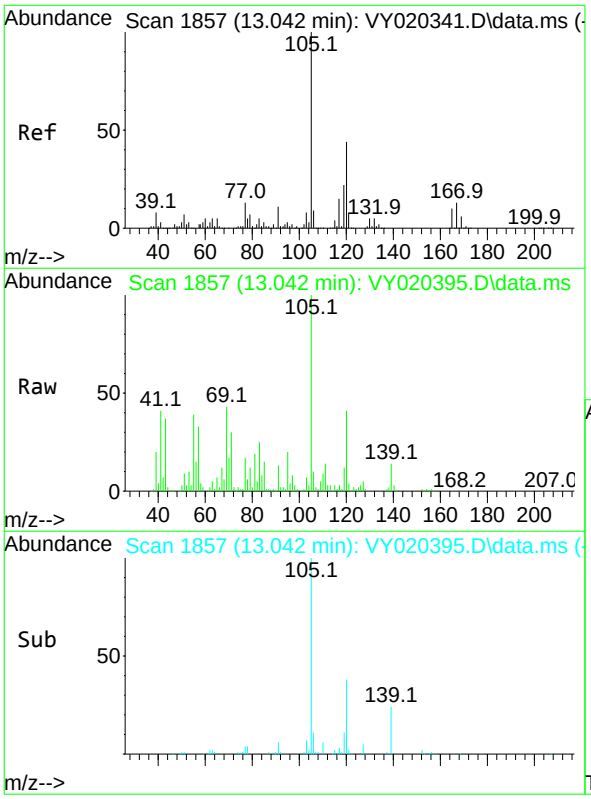
#80
1,3,5-Trimethylbenzene
Concen: 5.704 ug/l
RT: 12.737 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:105 Resp: 44208

Ion	Ratio	Lower	Upper
105	100		
120	46.3	24.3	72.8

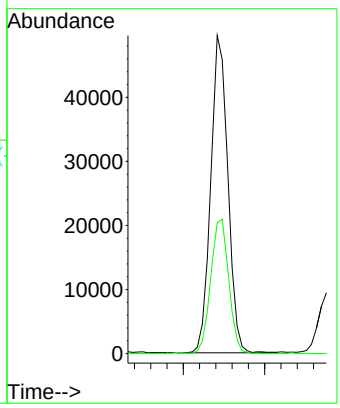


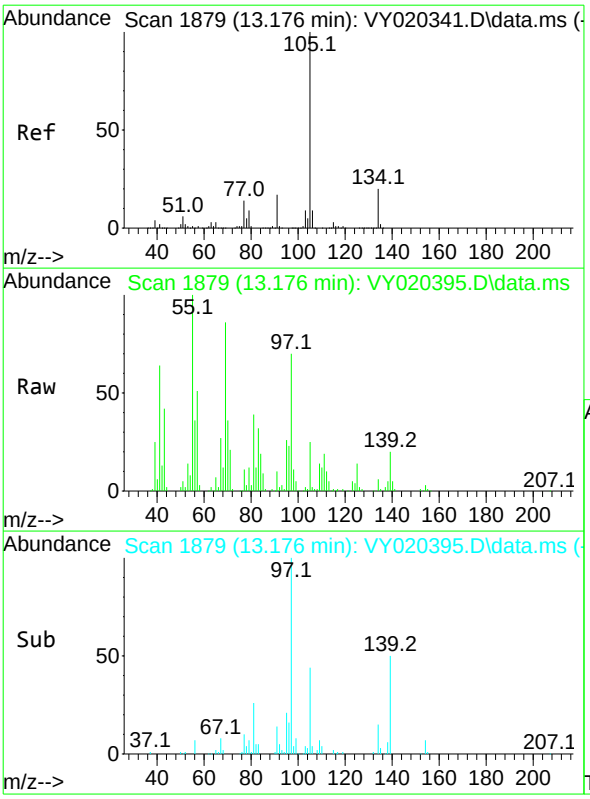


#84
1,2,4-Trimethylbenzene
Concen: 9.431 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:105 Resp: 72471

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.0	66.0



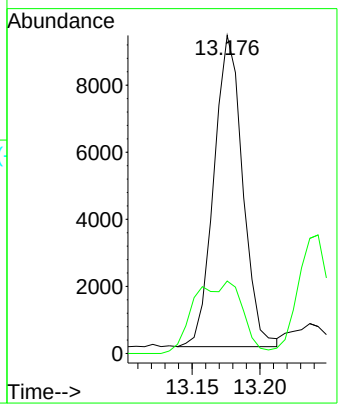


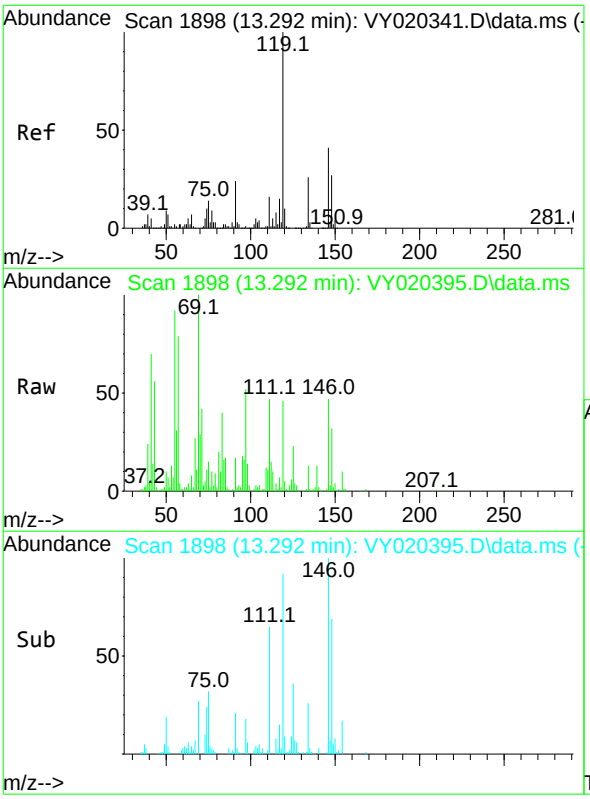
#85
sec-Butylbenzene
Concen: 1.272 ug/l
RT: 13.176 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:105 Resp: 13719

Ion	Ratio	Lower	Upper
105	100		
134	39.1	9.8	29.5#

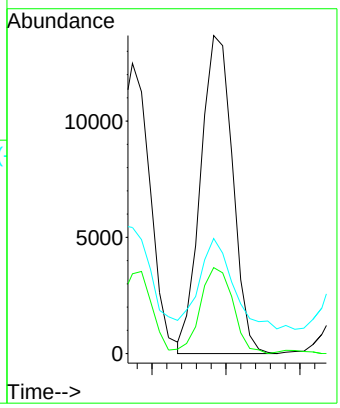


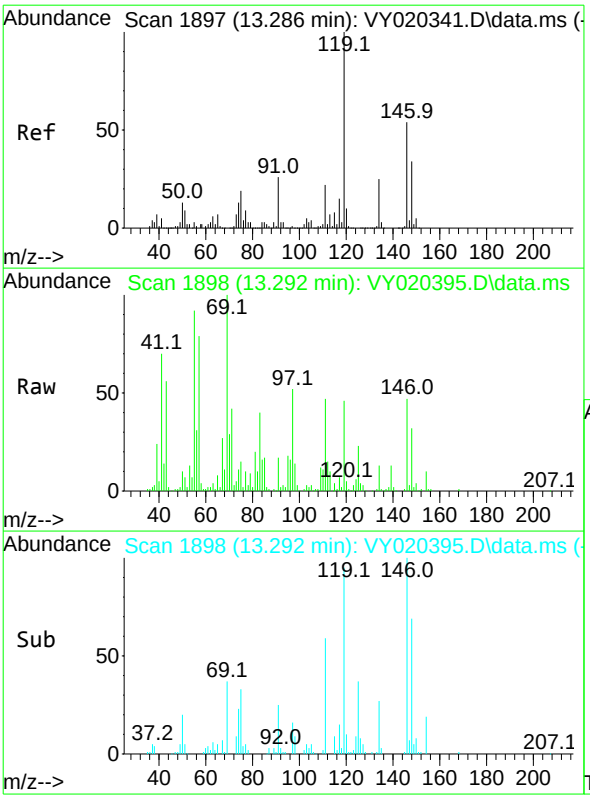


#86
p-Isopropyltoluene
Concen: 2.471 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:119 Resp: 20601

Ion	Ratio	Lower	Upper
119	100		
134	27.4	12.8	38.4
91	30.0	12.3	36.8



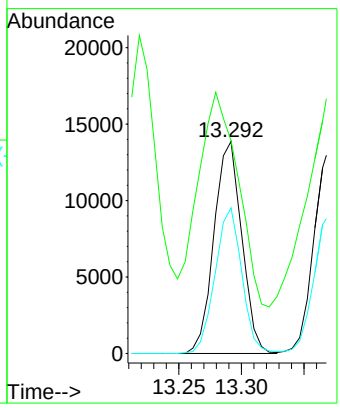


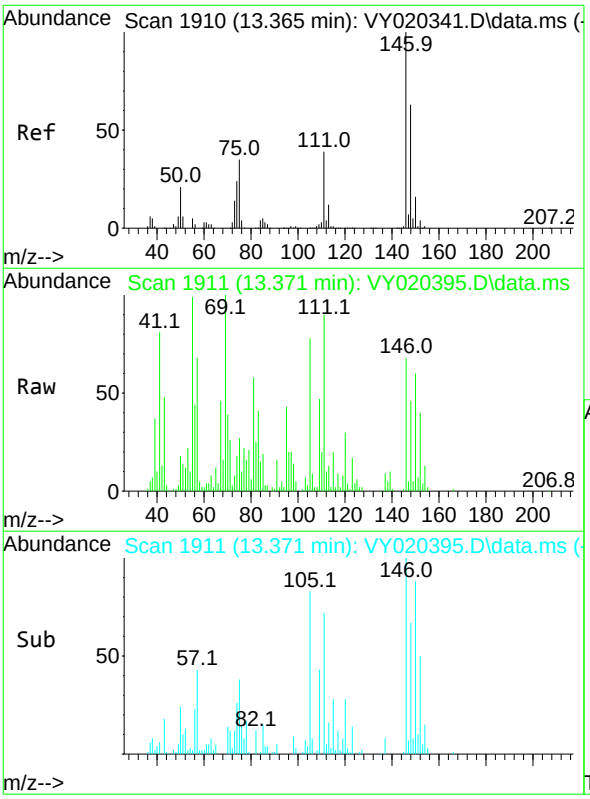
#87
1,3-Dichlorobenzene
Concen: 5.255 ug/l
RT: 13.292 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion:146 Resp: 21351

Ion	Ratio	Lower	Upper
146	100		
111	143.4	20.5	61.6#
148	66.3	32.1	96.5

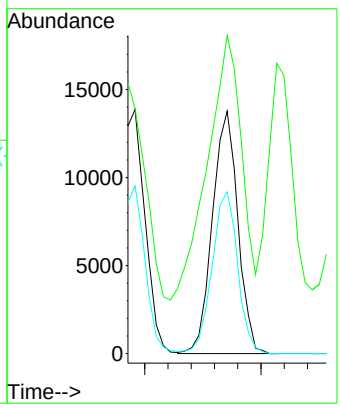


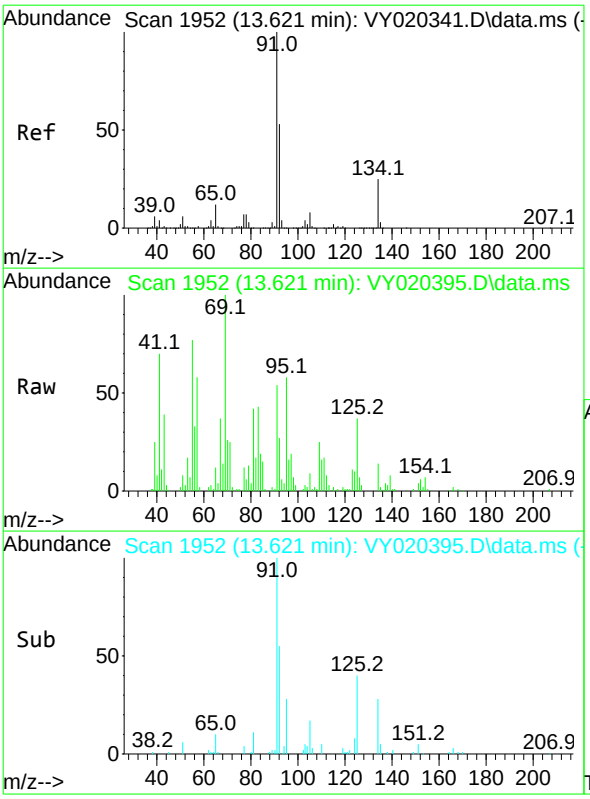


#88
1,4-Dichlorobenzene
Concen: 5.393 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:146 Resp: 20934

Ion	Ratio	Lower	Upper
146	100		
111	144.8	19.9	59.6#
148	67.2	32.0	96.2



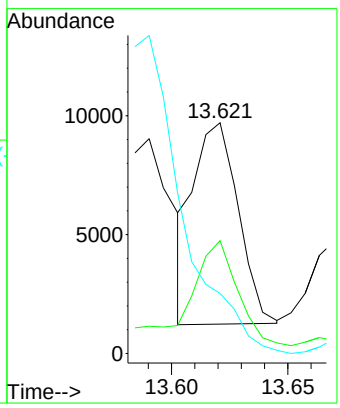


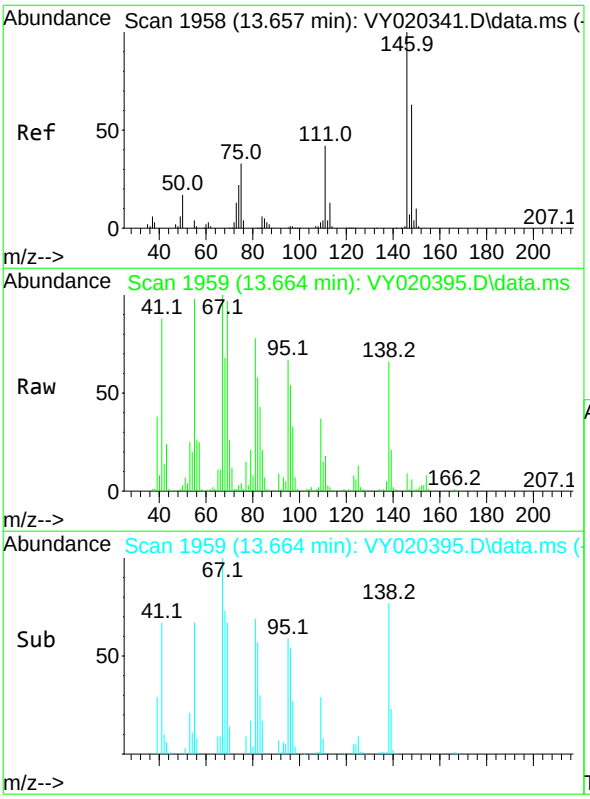
#89
n-Butylbenzene
Concen: 1.420 ug/l
RT: 13.621 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Tgt Ion: 91 Resp: 11336

Ion	Ratio	Lower	Upper
91	100		
92	57.7	26.5	79.5
134	0.0	12.2	36.4#

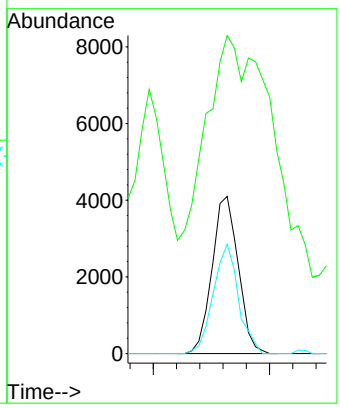




#91
1,2-Dichlorobenzene
Concen: 1.892 ug/l
RT: 13.664 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY020395.D
Acq: 21 Nov 2024 18:27

Tgt Ion:146 Resp: 6405

Ion	Ratio	Lower	Upper
146	100		
111	166.8	20.8	62.5#
148	66.9	31.8	95.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

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\82Y111924S.M
Title : SW846 8260

Signal : TIC: VY020395.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	20	rBV2	16990	26567	1.84%	0.087%
2	3.873	341	353	372	rBV	21734	70645	4.89%	0.231%
3	4.110	382	392	407	rVB	16533	45186	3.13%	0.148%
4	4.629	460	477	484	rBV5	7807	35435	2.45%	0.116%
5	6.896	838	849	864	rBV3	11391	37222	2.57%	0.122%
6	7.634	960	970	976	rBV	130313	318528	22.03%	1.042%
7	7.707	976	982	990	rVV	204095	485643	33.59%	1.589%
8	7.793	990	996	1005	rVB3	22312	56284	3.89%	0.184%
9	7.921	1008	1017	1025	rBV2	33352	80370	5.56%	0.263%
10	8.073	1032	1042	1053	rBV3	228984	625093	43.23%	2.045%
11	8.250	1053	1071	1080	rVV	124115	363464	25.14%	1.189%
12	8.341	1080	1086	1097	rVB2	20495	46820	3.24%	0.153%
13	8.616	1120	1131	1141	rBV	350250	686234	47.46%	2.245%
14	8.853	1162	1170	1176	rBV	22298	48857	3.38%	0.160%
15	9.109	1196	1212	1218	rBV4	141037	350849	24.26%	1.148%
16	9.170	1218	1222	1229	rVB2	58117	105241	7.28%	0.344%
17	9.298	1238	1243	1249	rVV3	12663	28298	1.96%	0.093%
18	9.390	1249	1258	1265	rVB4	29262	74248	5.13%	0.243%
19	9.542	1275	1283	1292	rVB2	89352	180843	12.51%	0.592%
20	9.676	1295	1305	1311	rBV3	80622	184820	12.78%	0.605%
21	9.744	1311	1316	1320	rVV3	21391	39307	2.72%	0.129%
22	9.780	1320	1322	1328	rVB4	21277	31235	2.16%	0.102%
23	9.884	1328	1339	1343	rBV4	33816	108484	7.50%	0.355%
24	10.042	1359	1365	1369	rVB	58694	99900	6.91%	0.327%
25	10.109	1369	1376	1391	rVB	600276	1164110	80.51%	3.809%
26	10.274	1398	1403	1405	rBV2	25392	39565	2.74%	0.129%
27	10.408	1415	1425	1427	rBV5	23605	46386	3.21%	0.152%
28	10.451	1427	1432	1441	rVB	51206	94103	6.51%	0.308%
29	10.548	1441	1448	1453	rBV4	39127	108176	7.48%	0.354%
30	10.591	1453	1455	1459	rVV3	20885	26081	1.80%	0.085%
31	10.640	1459	1463	1468	rVB	48262	71838	4.97%	0.235%
32	10.731	1468	1478	1484	rBV	113426	199780	13.82%	0.654%
33	10.829	1484	1494	1502	rBV	108127	250373	17.32%	0.819%
34	10.902	1502	1506	1509	rBV2	35226	55920	3.87%	0.183%
35	10.963	1512	1516	1520	rVV	76942	117452	8.12%	0.384%
36	11.018	1520	1525	1530	rVV	202463	348603	24.11%	1.141%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

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\82Y111924S.M
Title : SW846 8260

37	11.073	1530	1534	1538	rVB2	40990	57336	3.97%	0.188%
38	11.134	1538	1544	1548	rBV3	98218	174812	12.09%	0.572%
39	11.176	1548	1551	1553	rVV2	54658	85555	5.92%	0.280%
40	11.219	1554	1558	1567	rVB2	138521	297324	20.56%	0.973%
41	11.310	1567	1573	1577	rBV	115244	208236	14.40%	0.681%
42	11.414	1583	1590	1600	rBV	547596	985610	68.16%	3.225%
43	11.493	1600	1603	1609	rBV4	24224	49575	3.43%	0.162%
44	11.554	1609	1613	1616	rVB	55220	74907	5.18%	0.245%
45	11.615	1616	1623	1627	rBV3	188592	440075	30.44%	1.440%
46	11.664	1627	1631	1635	rVV2	226782	356590	24.66%	1.167%
47	11.707	1635	1638	1643	rVB2	180150	270893	18.73%	0.886%
48	11.768	1643	1648	1651	rBV	74909	141331	9.77%	0.462%
49	11.804	1651	1654	1659	rVB2	34405	63645	4.40%	0.208%
50	11.865	1659	1664	1667	rBV2	117024	164448	11.37%	0.538%
51	11.932	1667	1675	1682	rBV4	433398	1400840	96.88%	4.583%
52	12.018	1686	1689	1690	rBV	68803	75323	5.21%	0.246%
53	12.048	1690	1694	1698	rVB	549066	776415	53.70%	2.540%
54	12.127	1698	1707	1709	rBV4	432115	808372	55.91%	2.645%
55	12.164	1709	1713	1718	rVB3	586293	1038546	71.82%	3.398%
56	12.249	1718	1727	1730	rBV6	95356	226860	15.69%	0.742%
57	12.298	1730	1735	1741	rVB4	329127	707909	48.96%	2.316%
58	12.353	1741	1744	1746	rVB	49912	55041	3.81%	0.180%
59	12.408	1746	1753	1759	rVB4	566122	1203237	83.21%	3.937%
60	12.499	1759	1768	1771	rBV5	267302	685654	47.42%	2.243%
61	12.566	1772	1779	1786	rVB4	574284	1445949	100.00%	4.731%
62	12.658	1786	1794	1798	rBV5	411483	1001087	69.23%	3.275%
63	12.737	1799	1807	1812	rBV6	554080	1391309	96.22%	4.552%
64	12.786	1813	1815	1821	rVB3	338089	448509	31.02%	1.467%
65	12.871	1821	1829	1833	rBV6	301207	679622	47.00%	2.224%
66	12.920	1833	1837	1841	rBV3	193201	347062	24.00%	1.136%
67	12.962	1841	1844	1846	rBV2	119817	146771	10.15%	0.480%
68	13.048	1854	1858	1862	rVB4	157687	246189	17.03%	0.805%
69	13.097	1862	1866	1871	rBV2	257448	452011	31.26%	1.479%
70	13.145	1872	1874	1876	rBV2	63990	68650	4.75%	0.225%
71	13.212	1881	1885	1887	rVV3	306016	454171	31.41%	1.486%
72	13.243	1888	1890	1894	rVV2	363660	442711	30.62%	1.448%
73	13.279	1894	1896	1901	rVB5	176095	266591	18.44%	0.872%
74	13.347	1902	1907	1913	rBV	374992	729798	50.47%	2.388%
75	13.487	1926	1930	1934	rVB4	123670	183405	12.68%	0.600%
76	13.548	1935	1940	1944	rBV4	84976	200340	13.86%	0.655%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

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\82Y111924S.M
Title : SW846 8260

77	13.670	1954	1960	1965	rBV2	500231	862894	59.68%	2.823%
78	13.718	1965	1968	1971	rBV2	72949	96028	6.64%	0.314%
79	13.840	1985	1988	1993	rBV4	105532	228458	15.80%	0.747%
80	13.889	1993	1996	2002	rVB3	191290	305899	21.16%	1.001%
81	13.999	2010	2014	2019	rVB3	158476	238462	16.49%	0.780%
82	14.066	2019	2025	2031	rVB6	104517	240557	16.64%	0.787%
83	14.127	2031	2035	2039	rBV5	58453	102967	7.12%	0.337%
84	14.182	2039	2044	2053	rBV6	243344	685484	47.41%	2.243%
85	14.255	2053	2056	2060	rVB	120066	163261	11.29%	0.534%
86	14.304	2060	2064	2067	rBV3	113756	178859	12.37%	0.585%
87	14.340	2067	2070	2075	rVB2	212659	299960	20.74%	0.981%
88	14.487	2090	2094	2099	rBV3	49364	78476	5.43%	0.257%
89	14.535	2099	2102	2106	rVB2	67927	81736	5.65%	0.267%
90	14.602	2106	2113	2118	rBV3	156253	361560	25.01%	1.183%
91	14.651	2118	2121	2128	rVB3	144647	244078	16.88%	0.799%
92	14.712	2128	2131	2132	rBV2	25509	28435	1.97%	0.093%
93	14.865	2152	2156	2160	rVB3	77118	98403	6.81%	0.322%
94	15.133	2195	2200	2207	rBV2	121335	254664	17.61%	0.833%
95	15.255	2217	2220	2225	rBV6	27755	48207	3.33%	0.158%
96	15.346	2232	2235	2243	rVB9	36178	70323	4.86%	0.230%
97	15.432	2244	2249	2251	rBV4	26241	54587	3.78%	0.179%
98	15.517	2259	2263	2268	rVB3	66414	112566	7.78%	0.368%
99	16.053	2347	2351	2359	rVB	65257	108059	7.47%	0.354%
100	16.370	2398	2403	2411	rBV4	49633	116042	8.03%	0.380%

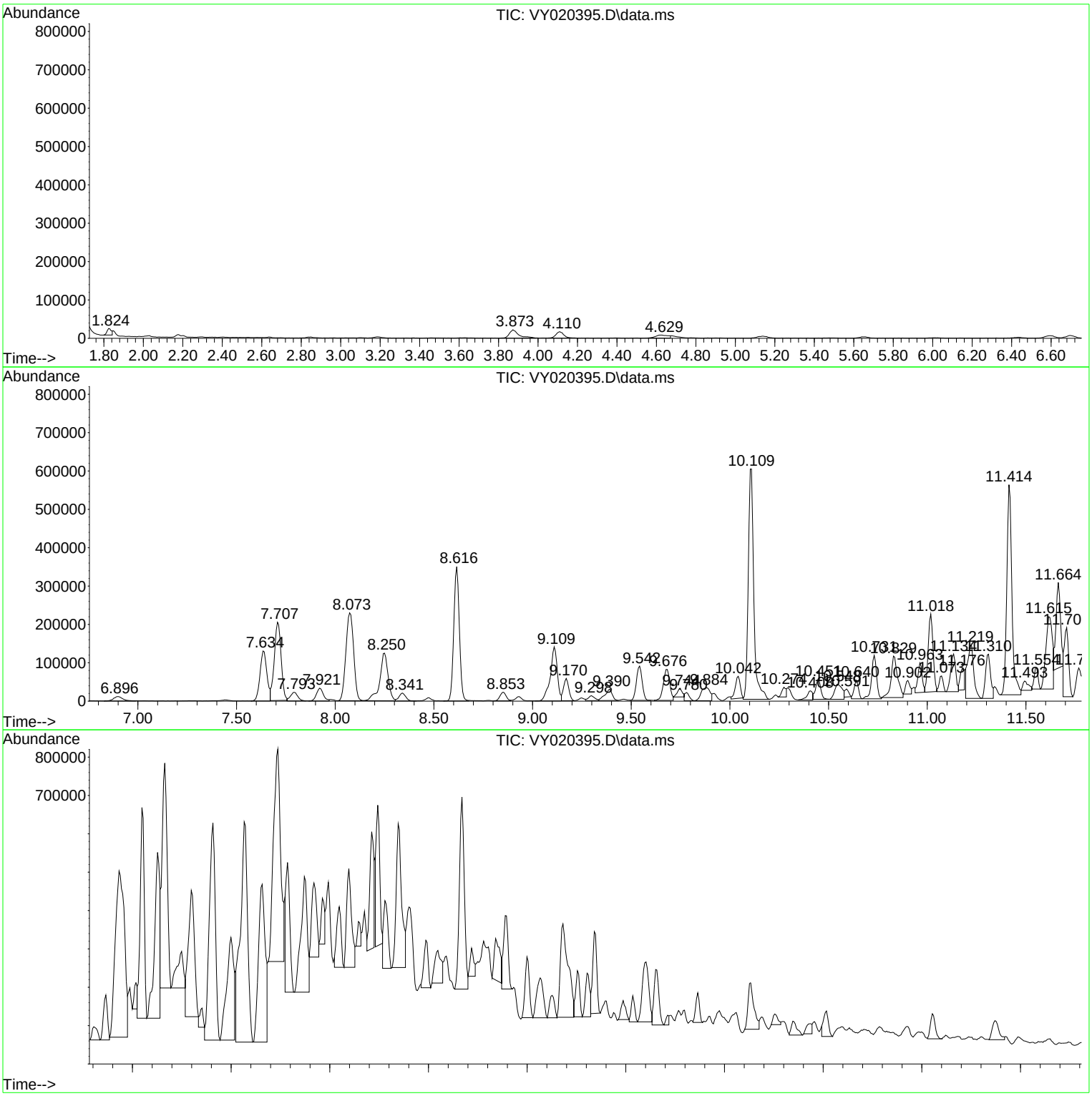
Sum of corrected areas: 30564634

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

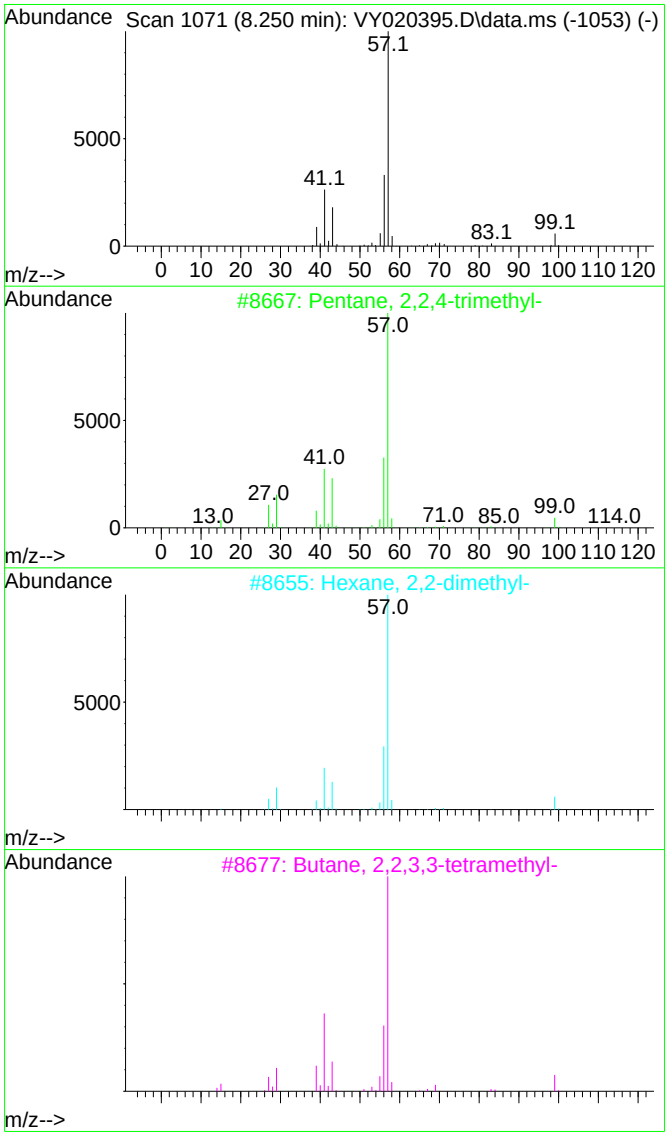
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

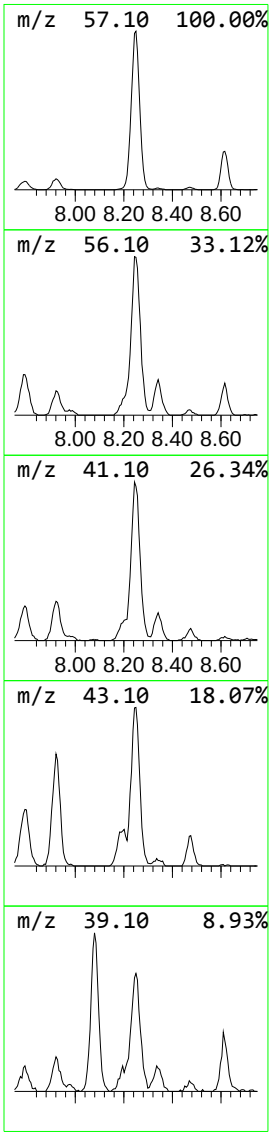
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Pentane, 2,2,4-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.250	26.48 ug/l	363464	1,4-Difluorobenzene	8.616

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	59





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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On    : 21 Nov 2024  18:27
Operator  : SY/MD
Sample    : P4892-01
Misc      : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 24   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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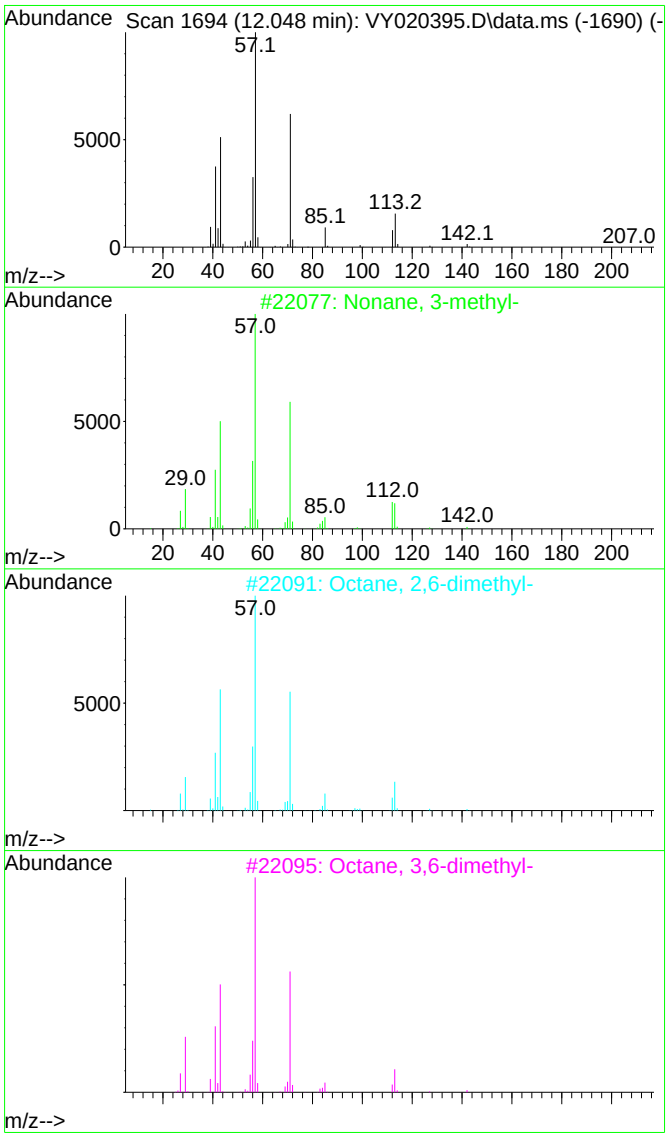
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ClientSampleId :
WB-310-TOP

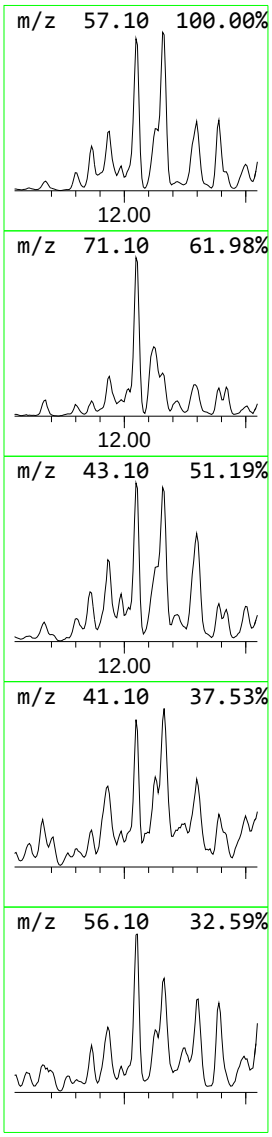
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Peak Number 2 Nonane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.048	39.39 ug/l	776415	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	91
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	91
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	91
4	Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	72
5	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

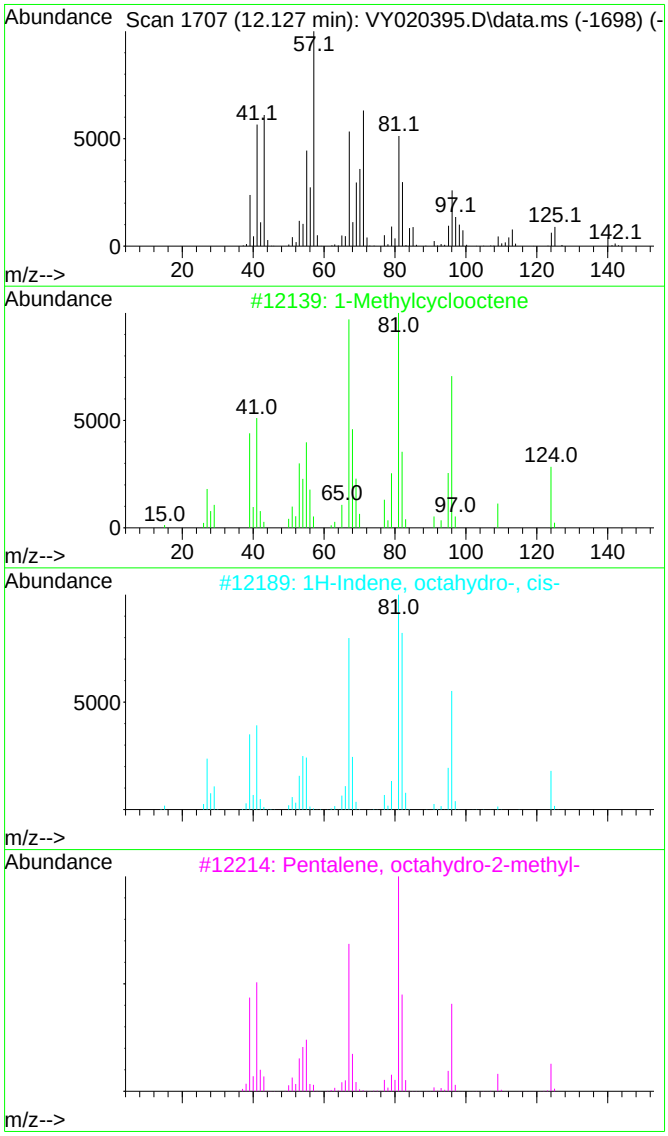
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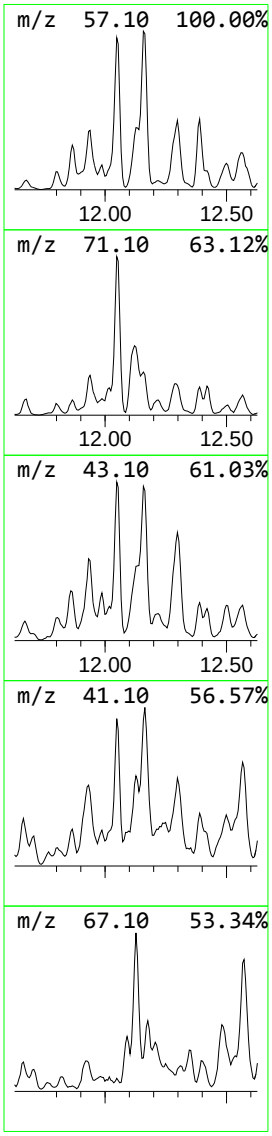
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Peak Number 3 unknown12.127 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.127	41.01 ug/l	808372	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methylcyclooctene	124	C9H16	000933-11-9	42
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	38
3	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	35
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	30
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

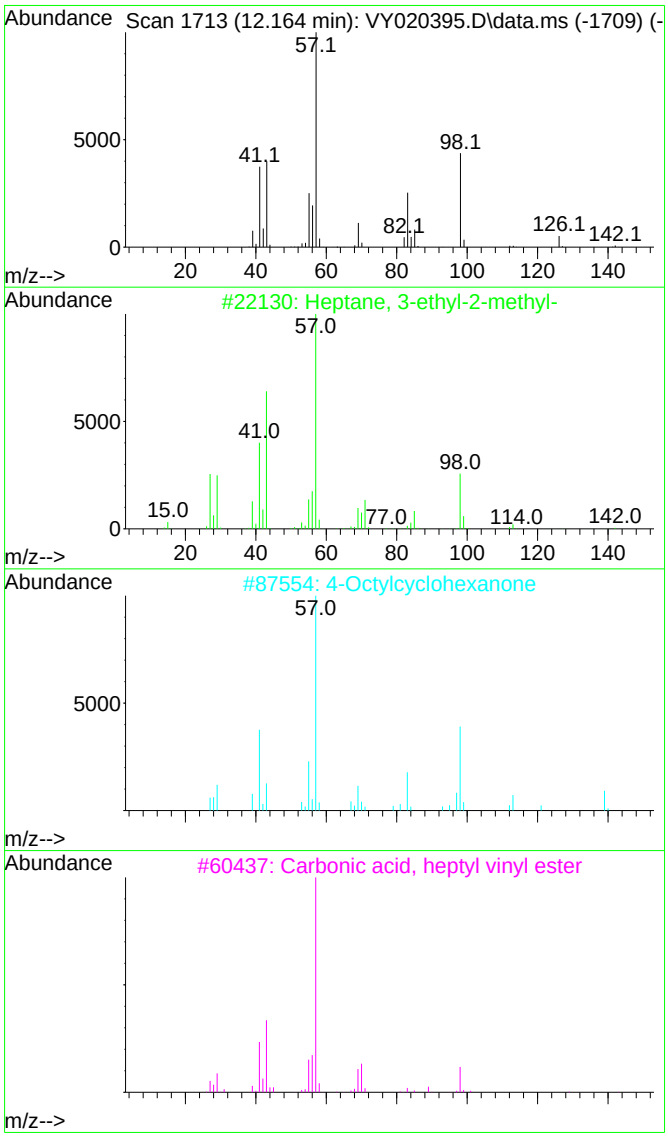
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Quant Title : SW846 8260

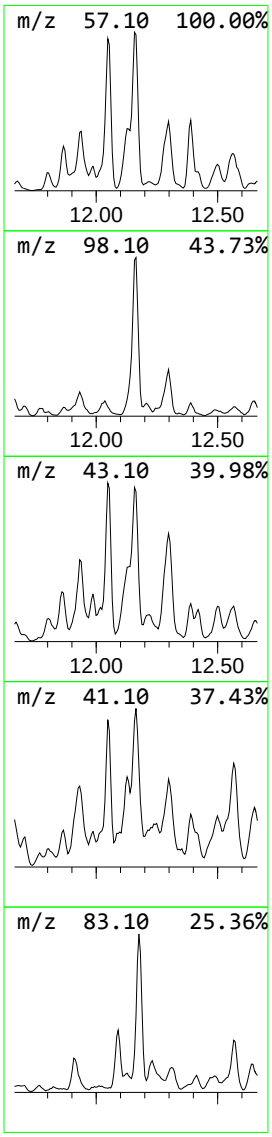
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 unknown12.164 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.164	52.69 ug/l	1038550	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	47
2	4-Octylcyclohexanone	210	C14H26O	1000428-94-1	45
3	Carbonic acid, heptyl vinyl ester	186	C10H18O3	1010383-25-4	40
4	2,2-Dimethyl-3-pentanol, chlorod...	228	C9H15ClF2O2	1000376-26-4	38
5	Carbonic acid, heptyl prop-1-en-...	200	C11H20O3	1000382-54-1	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

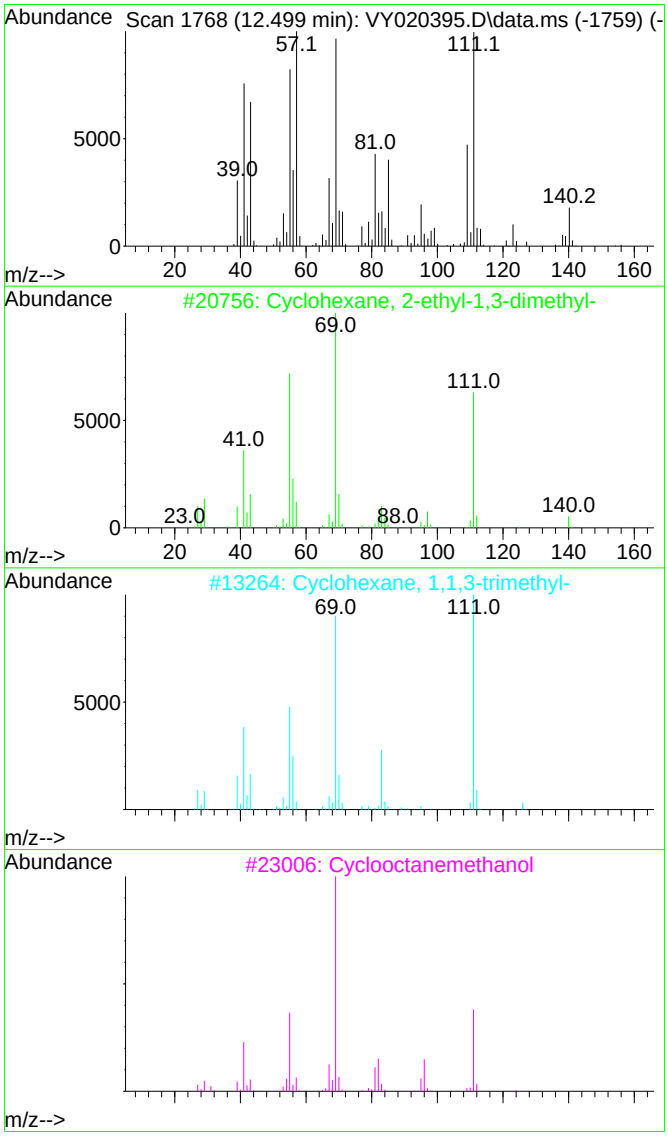
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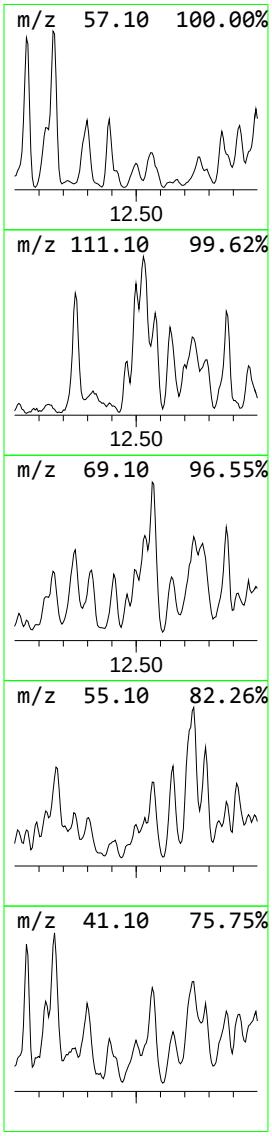
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Peak Number 5 unknown12.499 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.499	46.98 ug/l	685654	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-ethyl-1,3-dimethyl-	140	C10H20	007045-67-2	49
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	46
3	Cyclooctanemethanol	142	C9H18O	003637-63-6	43
4	2-(Butyliden-2-one)tetrahydrofuran	140	C8H12O2	343270-50-8	43
5	Cyclooctane, (1-methylpropyl)-	168	C12H24	016538-89-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

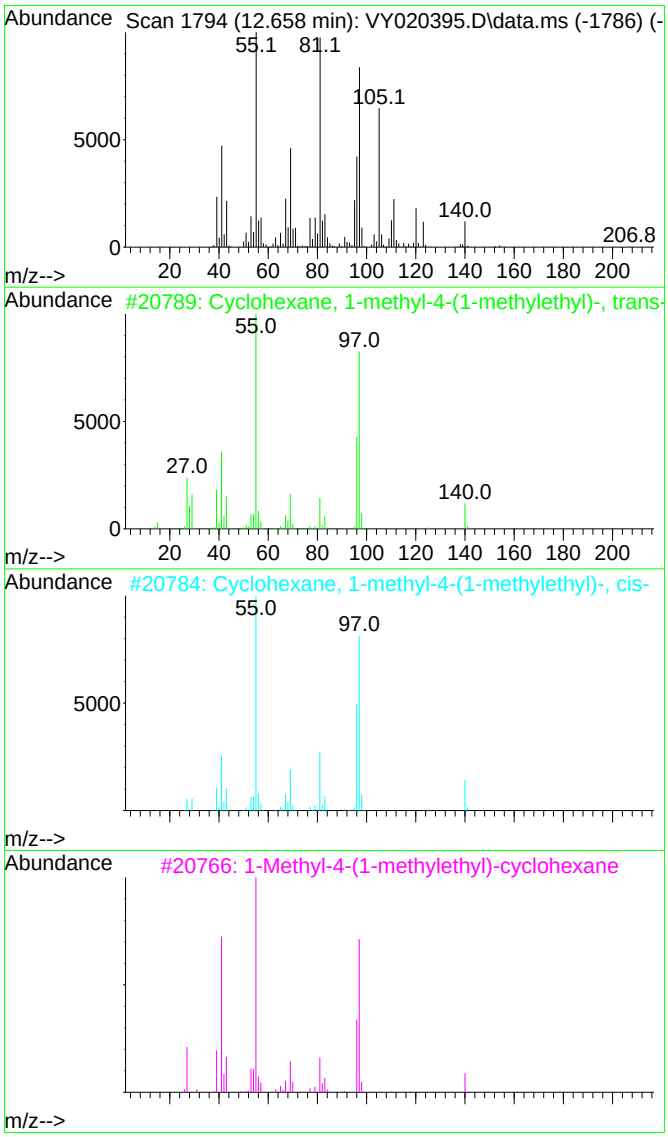
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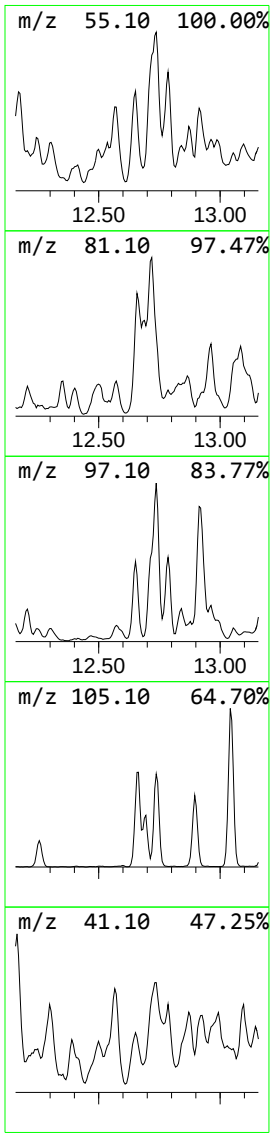
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 unknown12.658 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.658	68.59 ug/l	1001090	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	43
2	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	43
3	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	43
4	6-Methyl-bicyclo[4.2.0]octan-7-one	138	C9H14O	1010193-87-2	43
5	Oxalic acid, cyclohexylmethyl pr...	228	C12H20O4	1010309-68-1	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

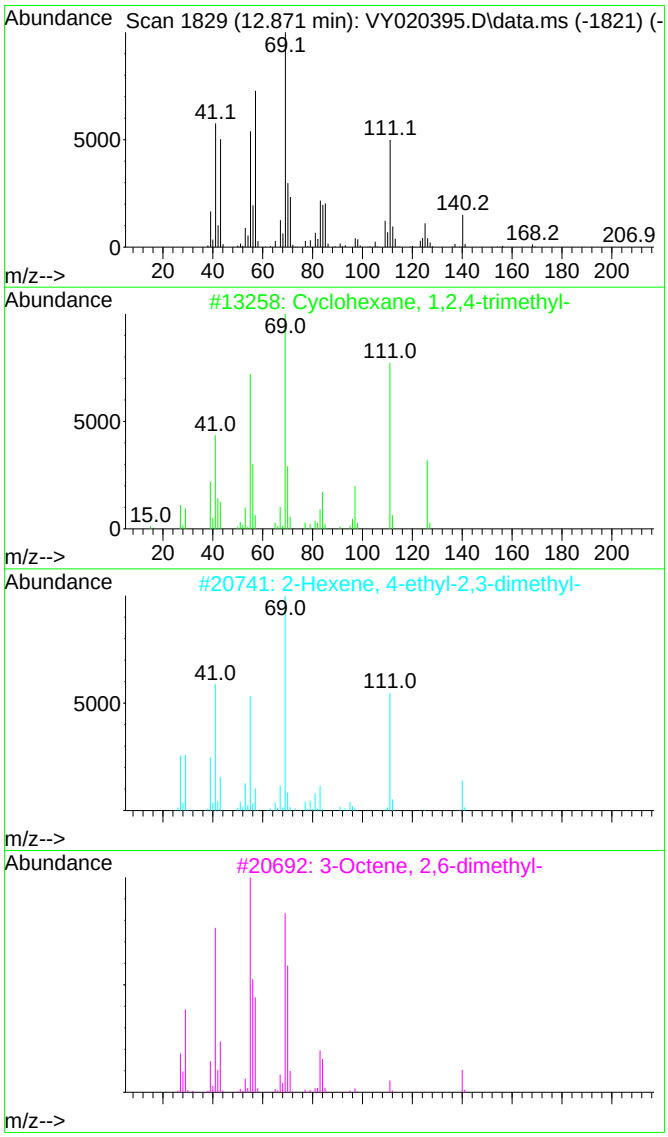
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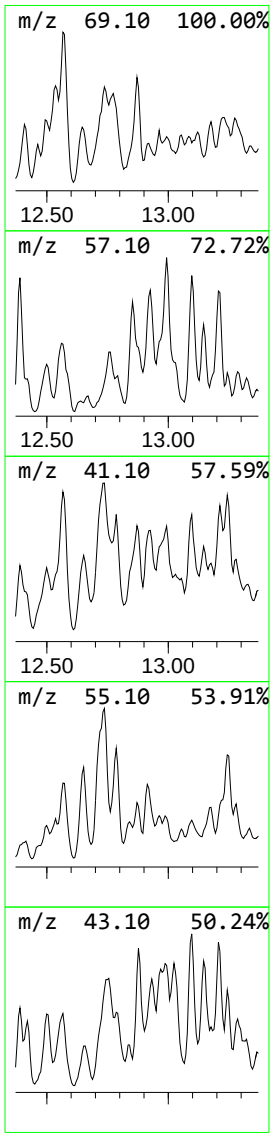
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Cyclohexane, 1,2,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.871	46.56 ug/l	679622	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	60
2	2-Hexene, 4-ethyl-2,3-dimethyl-	140	C10H20	1000149-19-7	49
3	3-Octene, 2,6-dimethyl-	140	C10H20	006874-28-8	47
4	Cyclooctane, ethyl-	140	C10H20	013152-02-8	43
5	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

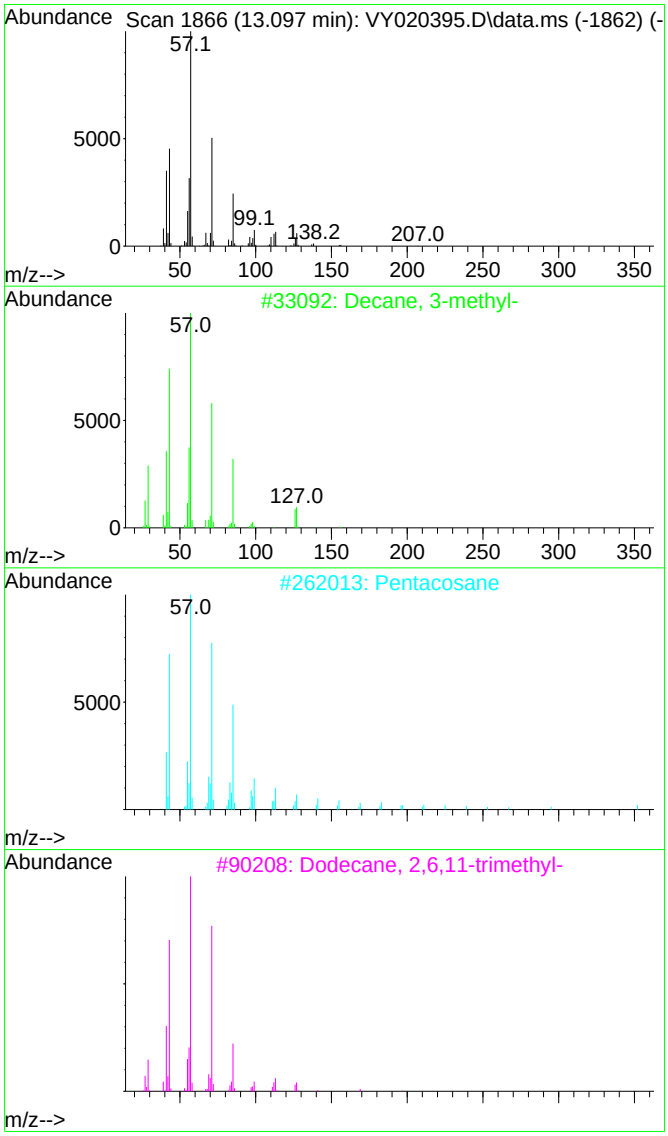
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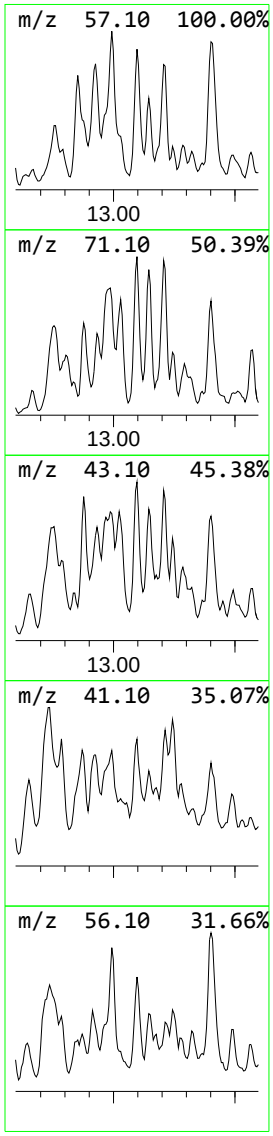
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Decane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.097	30.97 ug/l	452011	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3-methyl-	156	C11H24	013151-34-3	70
2	Pentacosane	352	C25H52	000629-99-2	59
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	59
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	59
5	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

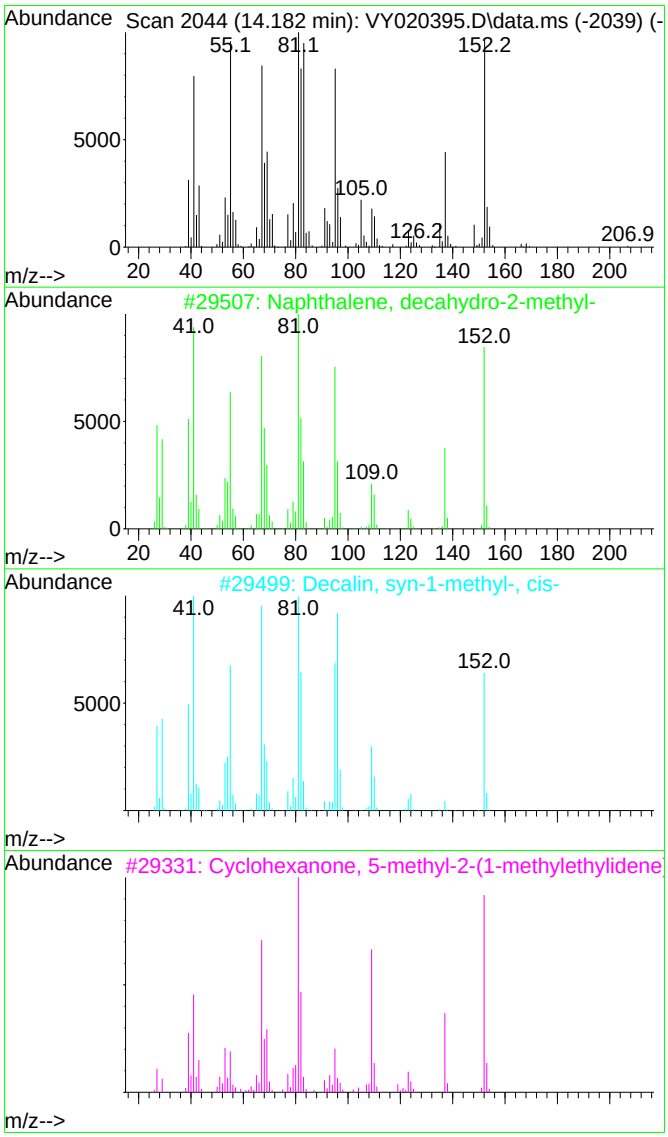
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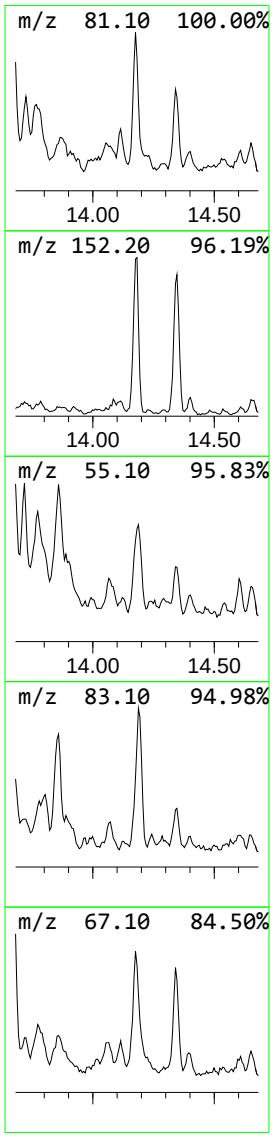
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, decahydro-2-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.182	46.96 ug/l	685484	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	89
2	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	68
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	60
4	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	58
5	Cycloundecene (Z)	152	C11H20	013151-61-6	52





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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On    : 21 Nov 2024  18:27
Operator  : SY/MD
Sample    : P4892-01
Misc      : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 24   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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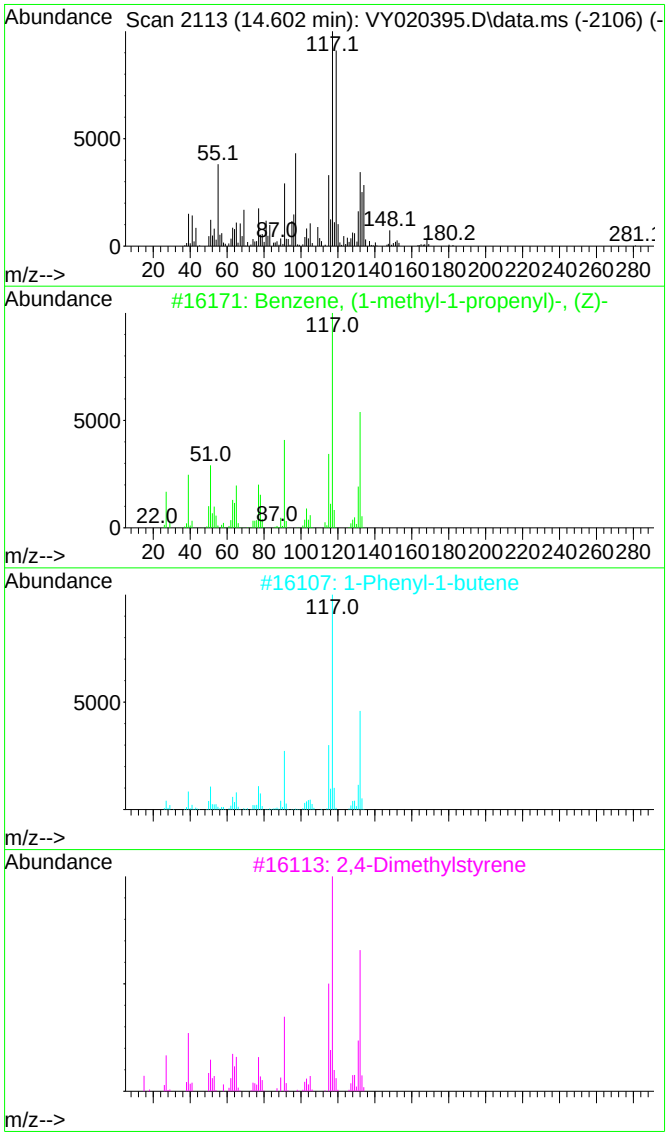
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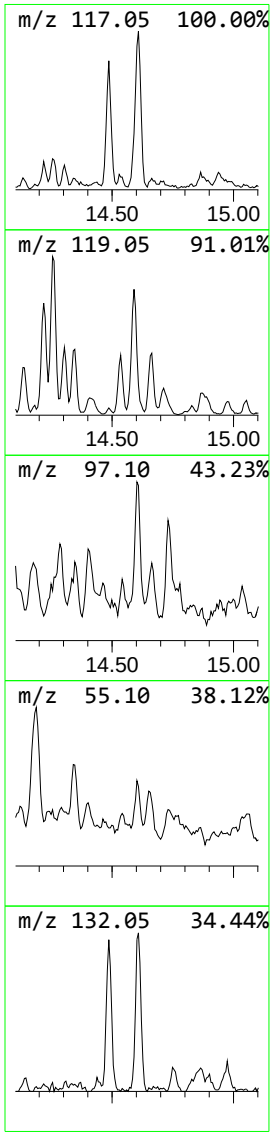
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Peak Number 10 Benzene, (1-methyl-1-propen... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.602	24.77 ug/l	361560	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	84
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	83
3	2,4-Dimethylstyrene	132	C10H12	002234-20-0	64
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	52
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	46





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020395.D
Acq On : 21 Nov 2024 18:27
Operator : SY/MD
Sample : P4892-01
Misc : 7.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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
Pentane, 2,2,4-...	8.250	26.5	ug/l	363464	2	8.616	686234	50.0
Nonane, 3-methyl-	12.048	39.4	ug/l	776415	3	11.414	985610	50.0
unknown12.127	12.127	41.0	ug/l	808372	3	11.414	985610	50.0
unknown12.164	12.164	52.7	ug/l	1038550	3	11.414	985610	50.0
unknown12.499	12.499	47.0	ug/l	685654	4	13.347	729798	50.0
unknown12.658	12.658	68.6	ug/l	1001090	4	13.347	729798	50.0
Cyclohexane, 1,...	12.871	46.6	ug/l	679622	4	13.347	729798	50.0
Decane, 3-methyl-	13.097	31.0	ug/l	452011	4	13.347	729798	50.0
Naphthalene, de...	14.182	47.0	ug/l	685484	4	13.347	729798	50.0
Benzene, (1-met...	14.602	24.8	ug/l	361560	4	13.347	729798	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Quant Time: Nov 22 23:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

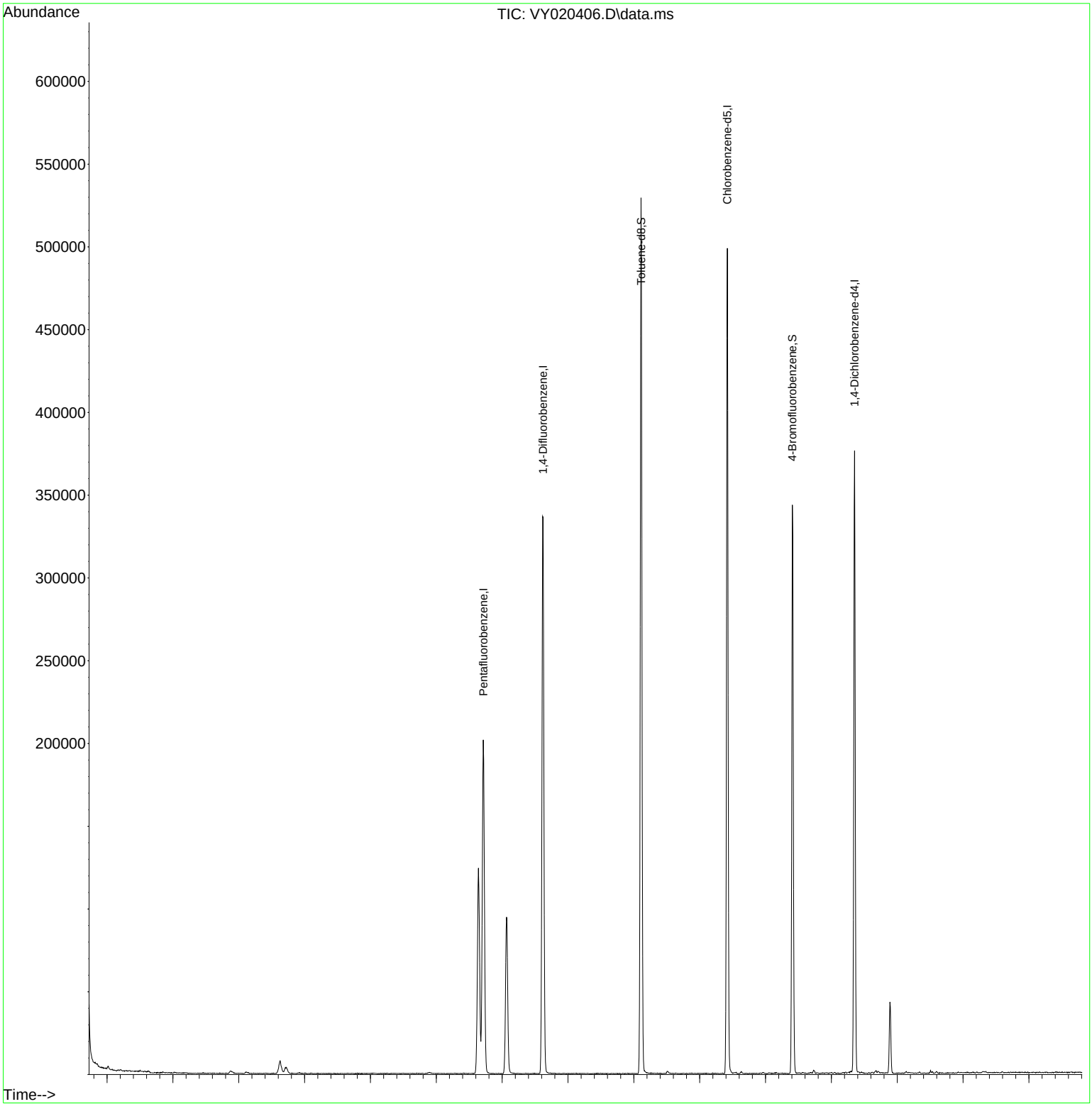
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	149521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	283533	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	251330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	91188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	80176	46.673	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.340%		
35) Dibromofluoromethane	7.640	113	86936	47.817	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.640%		
50) Toluene-d8	10.109	98	339071	47.344	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.680%		
62) 4-Bromofluorobenzene	12.408	95	105655	45.891	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	91.780%		
Target Compounds						Qvalue

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

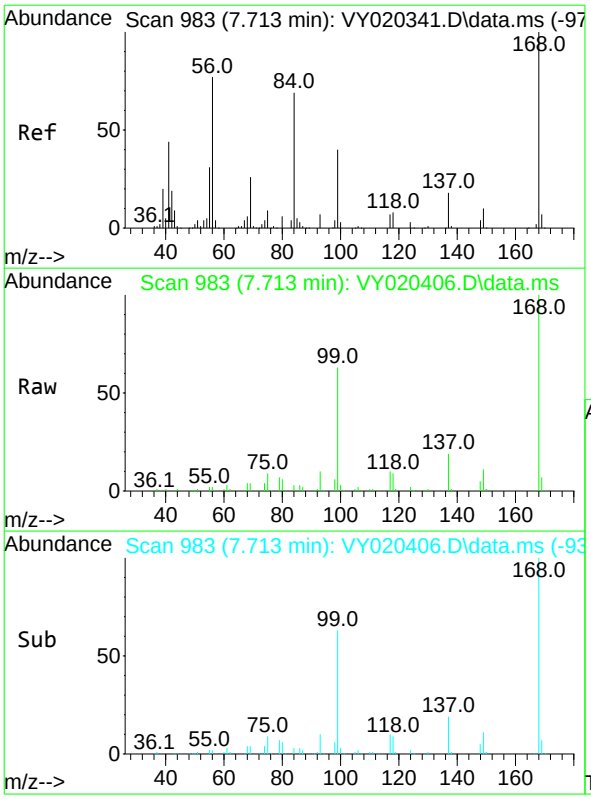
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Quant Time: Nov 22 23:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



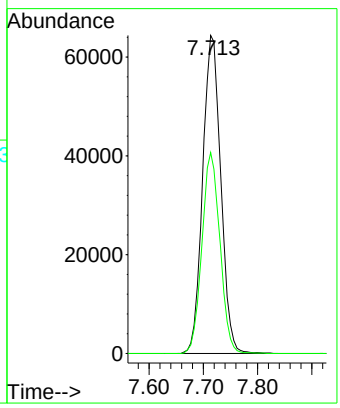
Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

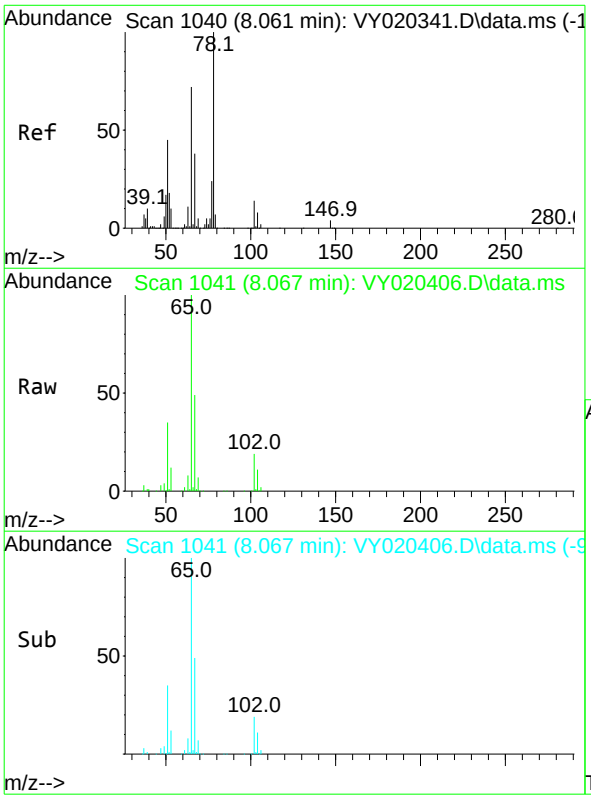


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Tgt Ion:168 Resp: 149521

Ion	Ratio	Lower	Upper
168	100		
99	63.2	46.6	69.8

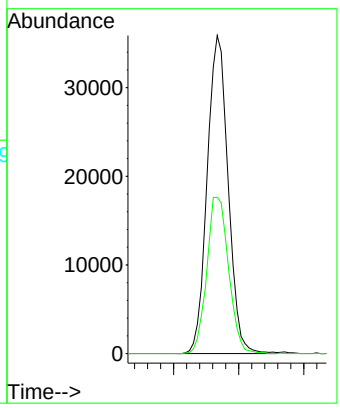


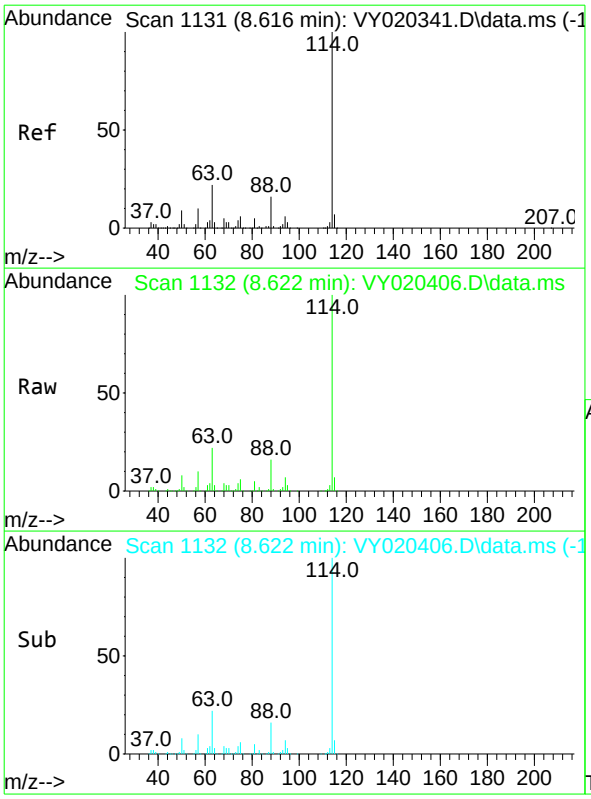


#33
1,2-Dichloroethane-d4
Concen: 46.673 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Tgt Ion: 65 Resp: 80176

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	105.8



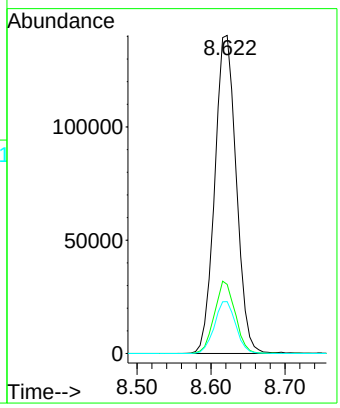


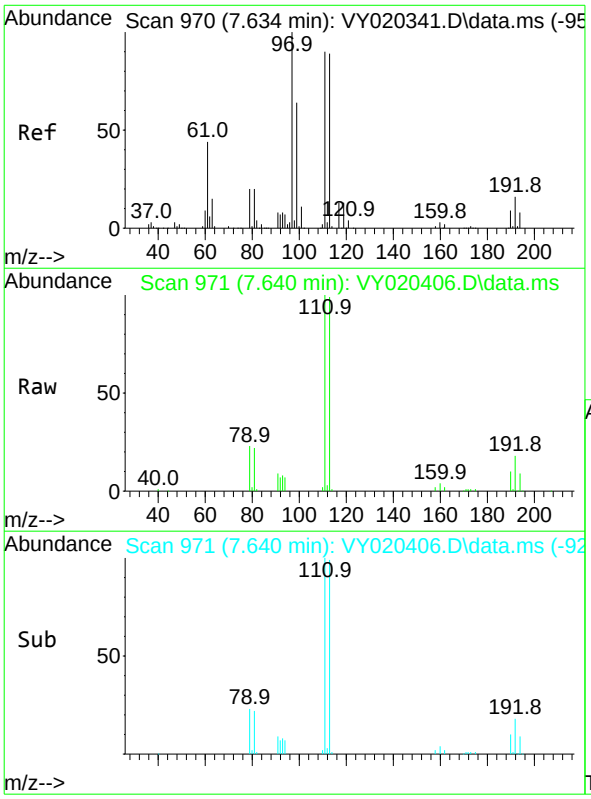
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Tgt Ion:114 Resp: 283533

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.8
88	16.3	0.0	32.0

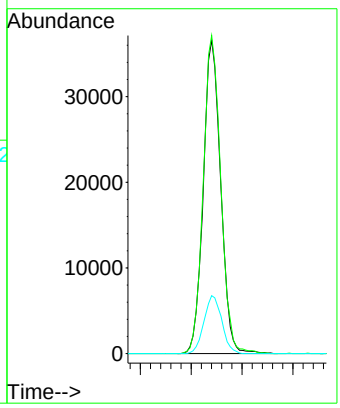


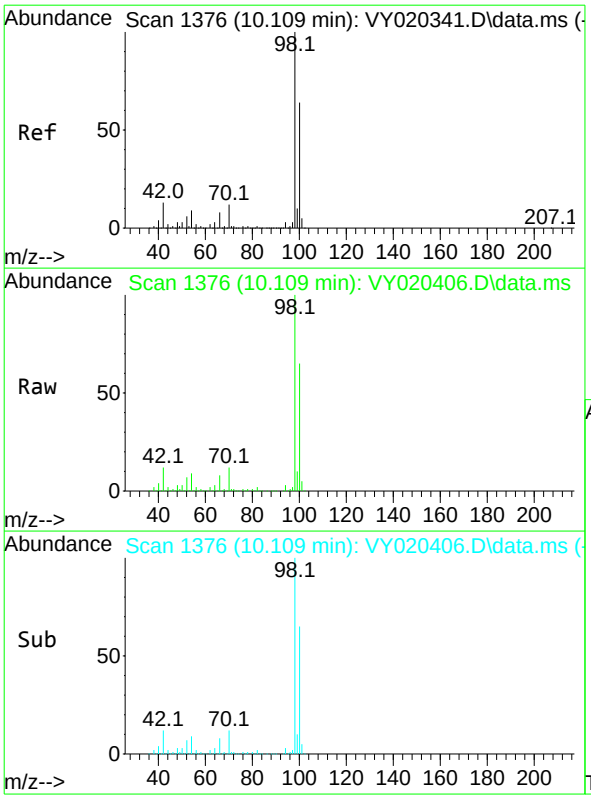


#35
Dibromofluoromethane
Concen: 47.817 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Tgt Ion:113 Resp: 86936

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.0
192	18.9	15.1	22.7



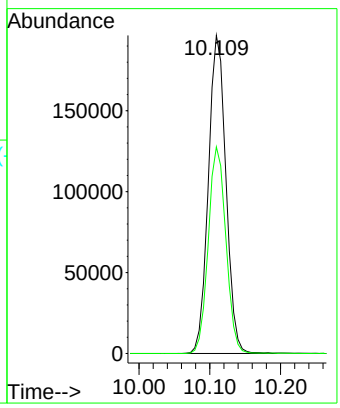


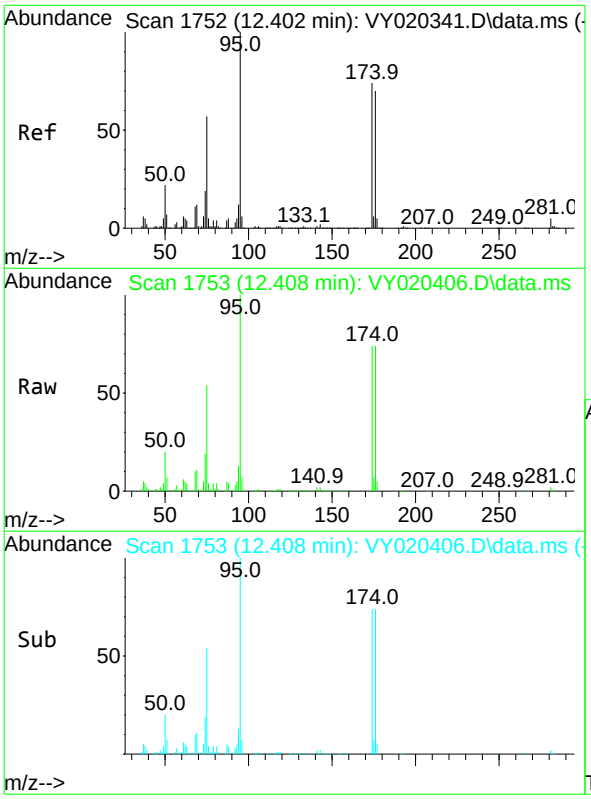
#50
Toluene-d8
Concen: 47.344 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Tgt Ion: 98 Resp: 339071

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.3	76.9

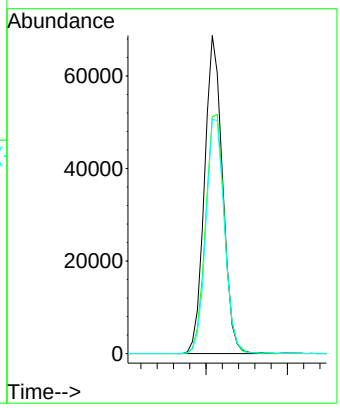


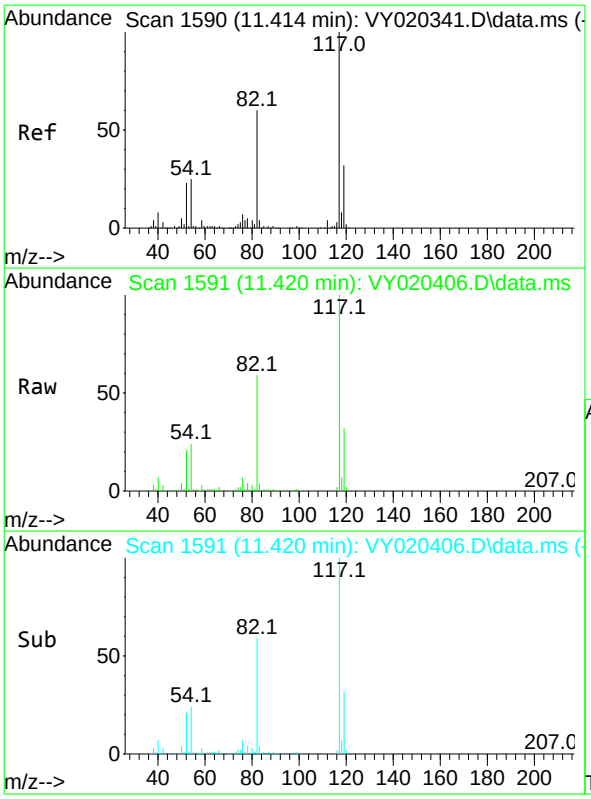


#62
4-Bromofluorobenzene
Concen: 45.891 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Tgt Ion: 95 Resp: 105655

Ion	Ratio	Lower	Upper
95	100		
174	79.1	0.0	156.8
176	76.0	0.0	152.0



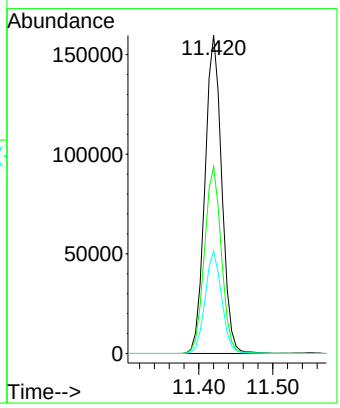


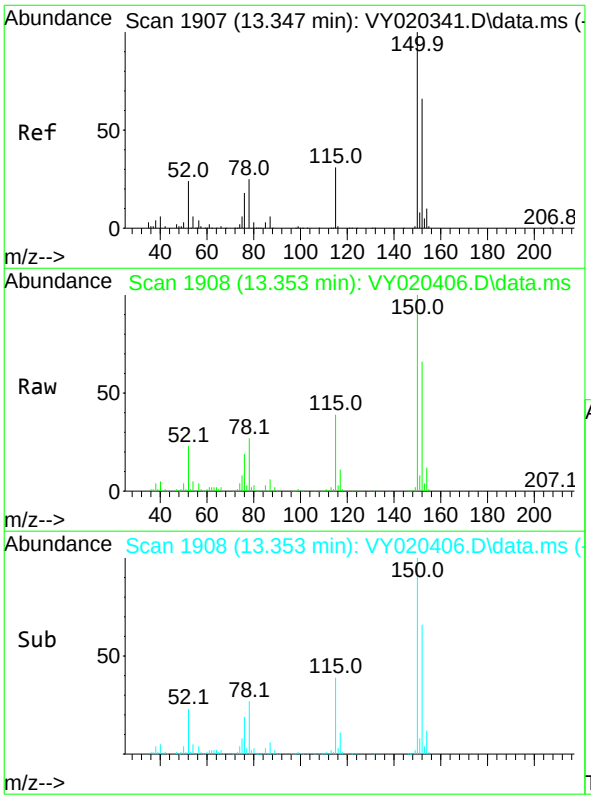
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Tgt Ion:117 Resp: 251330

Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.2	72.4
119	32.2	25.8	38.8

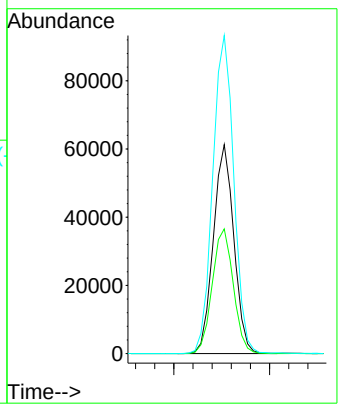




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020406.D
Acq: 22 Nov 2024 12:01

Tgt Ion:152 Resp: 91188

Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.0	90.0
150	156.4	0.0	348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

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\82Y111924S.M
Title : SW846 8260

Signal : TIC: VY020406.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.629	467	477	486	rBV2	7651	22393	2.44%	0.489%
2	7.640	961	971	977	rBV	123997	291909	31.84%	6.371%
3	7.713	977	983	1003	rVB	201665	463211	50.52%	10.110%
4	8.067	1030	1041	1054	rBV	94636	216317	23.59%	4.722%
5	8.616	1123	1131	1145	rBV	336587	681378	74.31%	14.872%
6	10.109	1368	1376	1390	rBV	529168	916942	100.00%	20.014%
7	11.420	1583	1591	1604	rBV	498619	795914	86.80%	17.372%
8	12.408	1747	1753	1763	rVB	343400	552497	60.25%	12.059%
9	13.353	1901	1908	1916	rVB	375443	570540	62.22%	12.453%
10	13.889	1990	1996	2005	rVB2	43131	70399	7.68%	1.537%

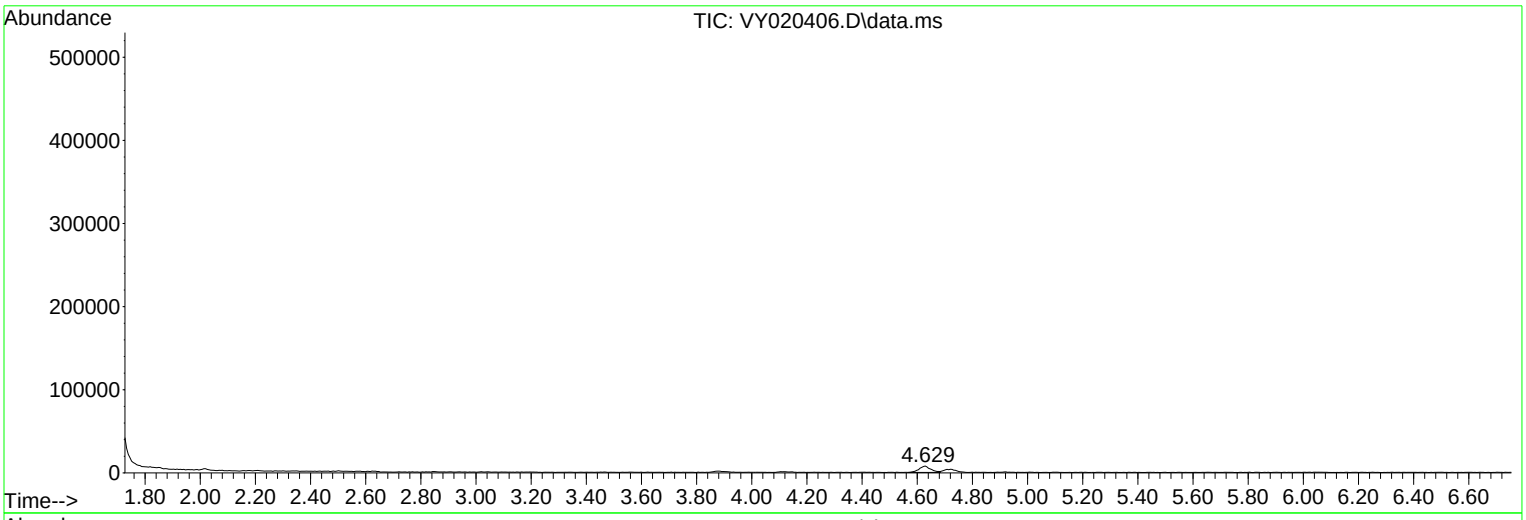
Sum of corrected areas: 4581500

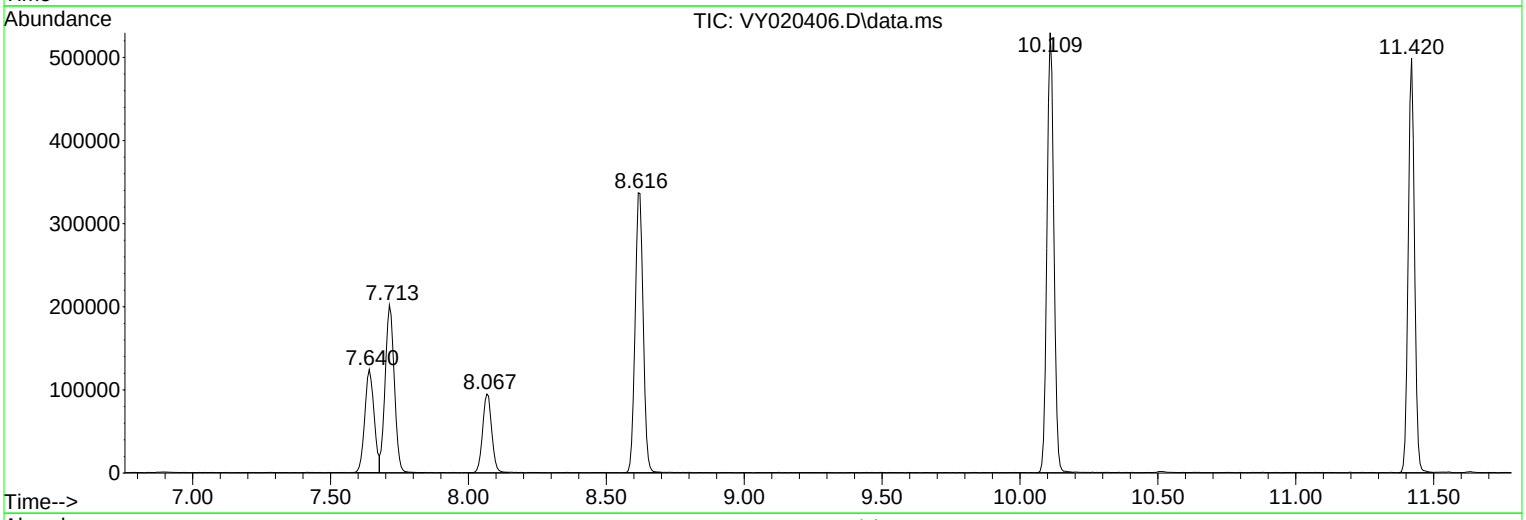
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

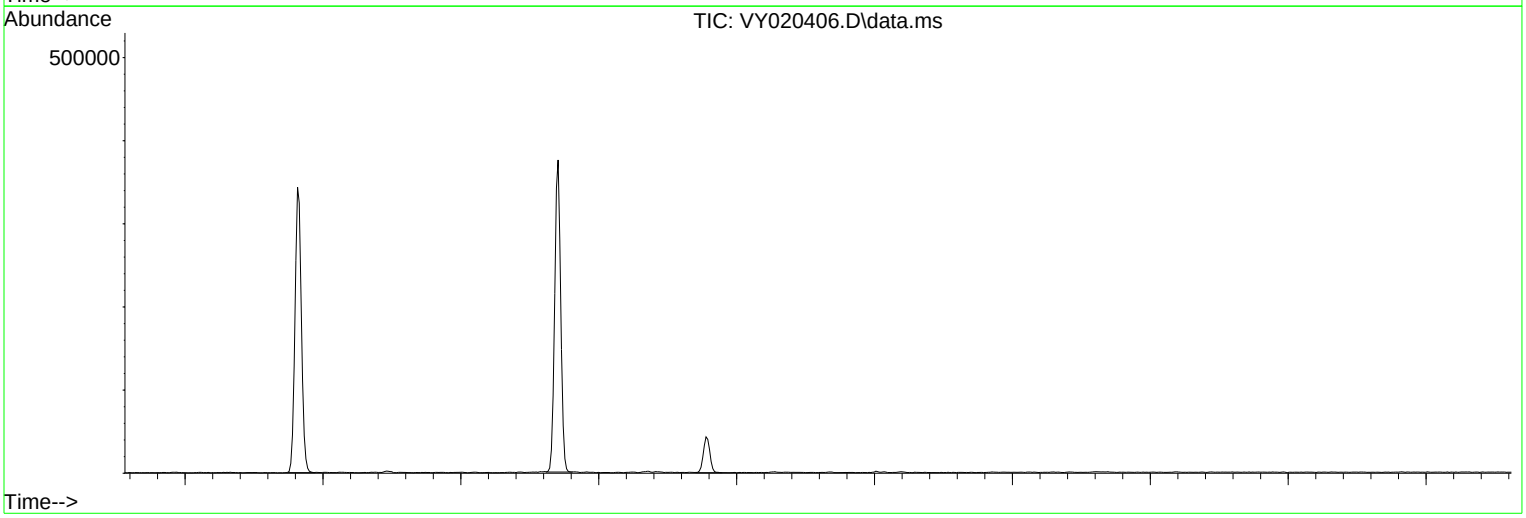
Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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\VY112224\
Data File : VY020406.D
Acq On : 22 Nov 2024 12:01
Operator : SY/MD
Sample : P4892-02
Misc : 8.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-310-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Quant Time: Nov 21 00:51:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

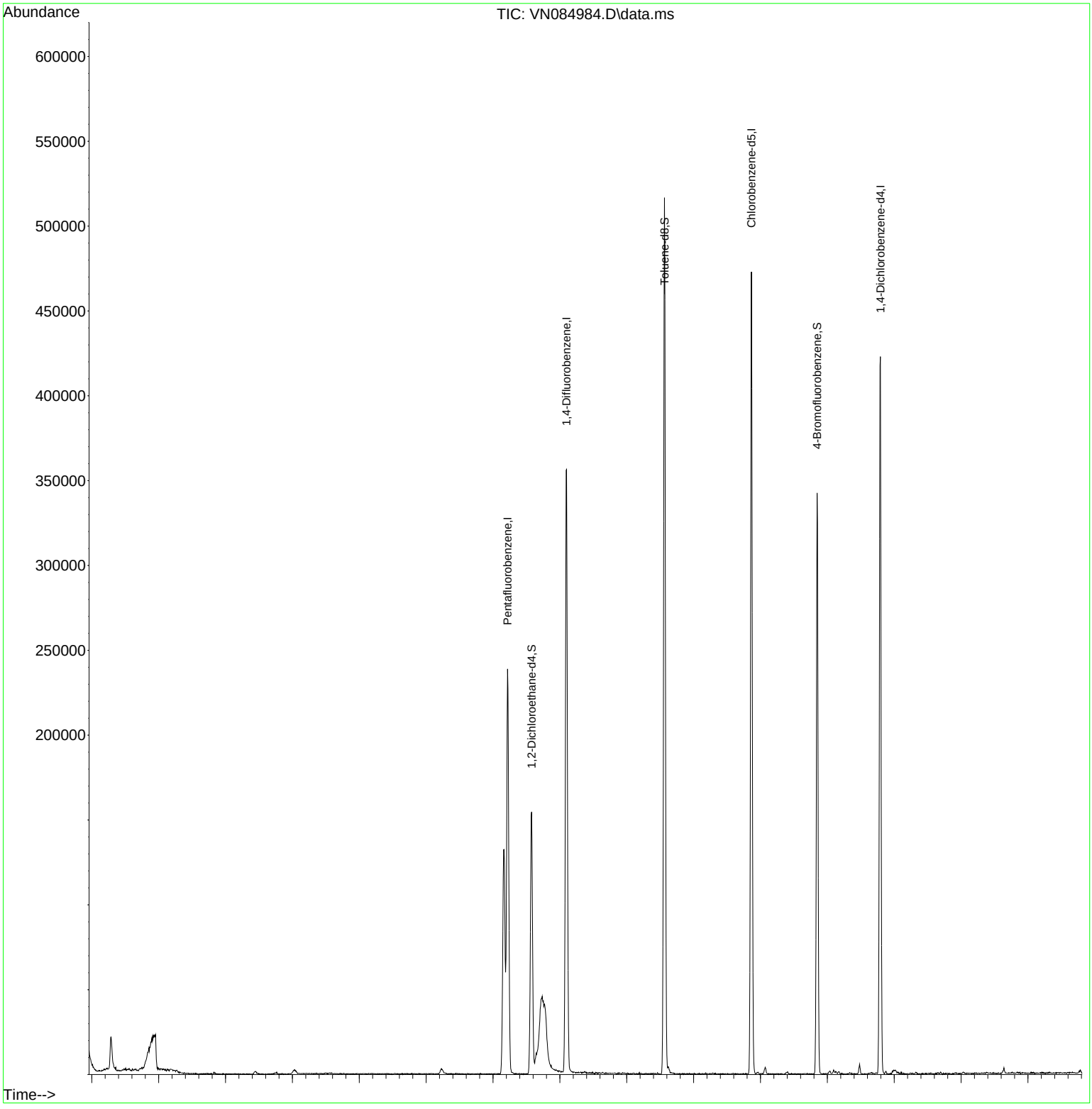
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	166877	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307613	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	262227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114908	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	127803	53.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.040%			
35) Dibromofluoromethane	8.165	113	98986	47.540	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.080%			
50) Toluene-d8	10.565	98	352034	45.897	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.800%			
62) 4-Bromofluorobenzene	12.847	95	119438	41.666	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.340%			
Target Compounds						Qvalue
68) m/p-Xylenes	12.076	106	1461	0.394	ug/l	92
84) 1,2,4-Trimethylbenzene	13.482	105	3571	0.518	ug/l	98

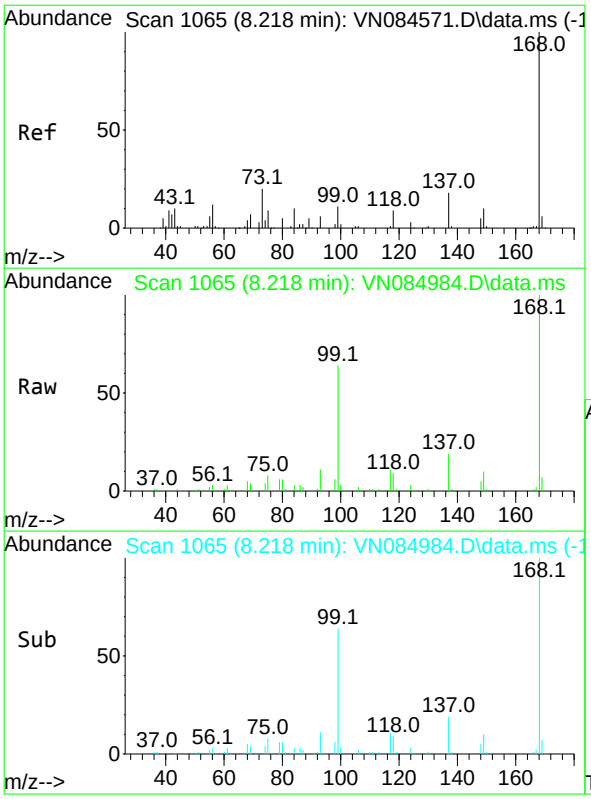
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Quant Time: Nov 21 00:51:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



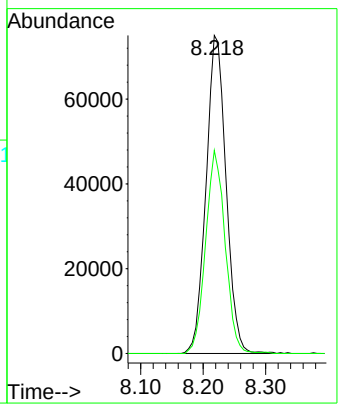


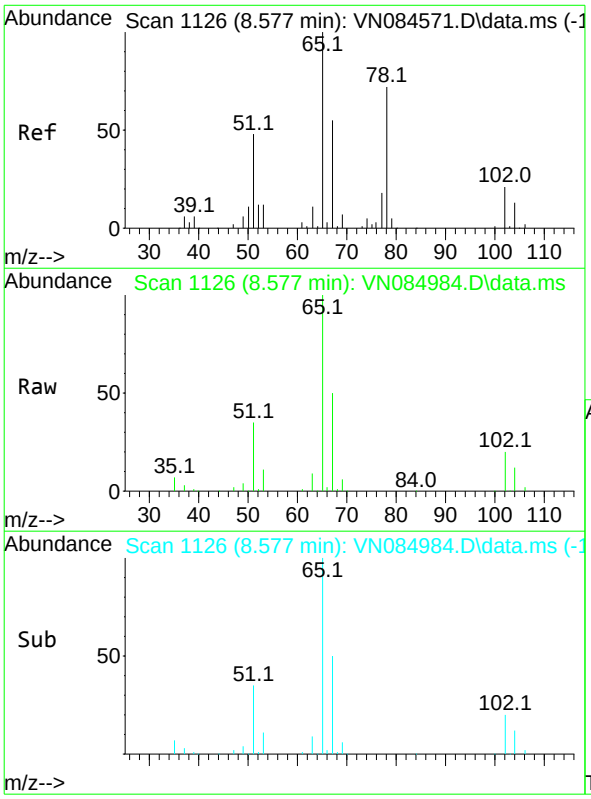
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Tgt Ion:168 Resp: 166877

Ion	Ratio	Lower	Upper
168	100		
99	63.8	54.2	81.2

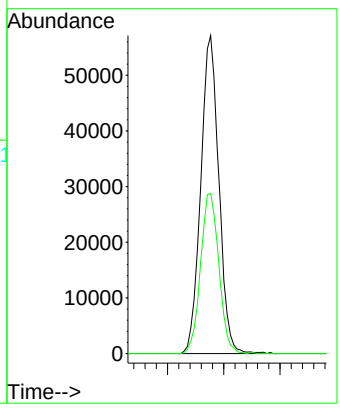


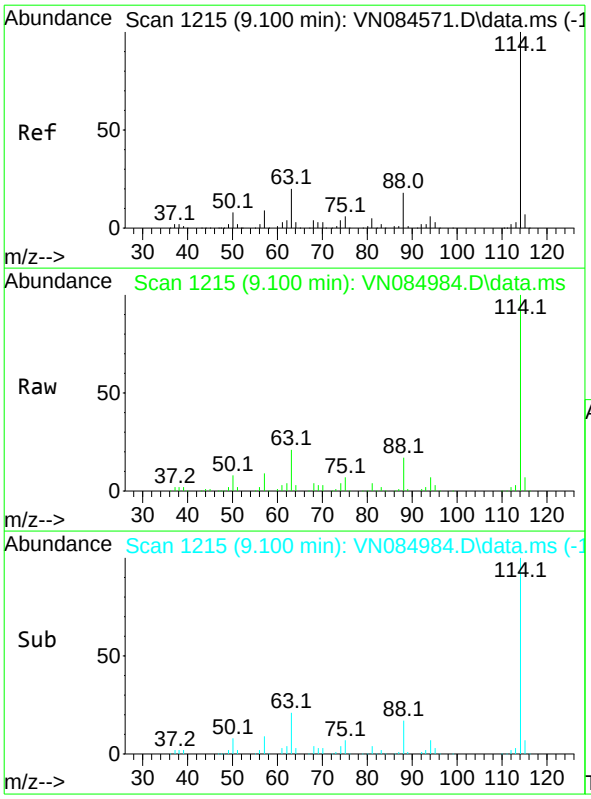


#33
1,2-Dichloroethane-d4
Concen: 53.024 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Tgt Ion: 65 Resp: 127803

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	102.0



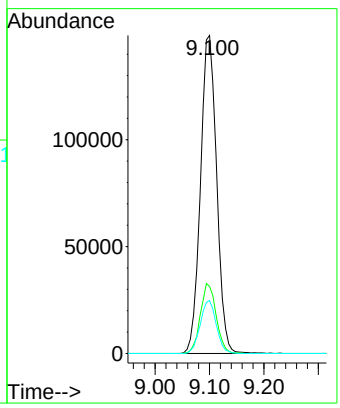


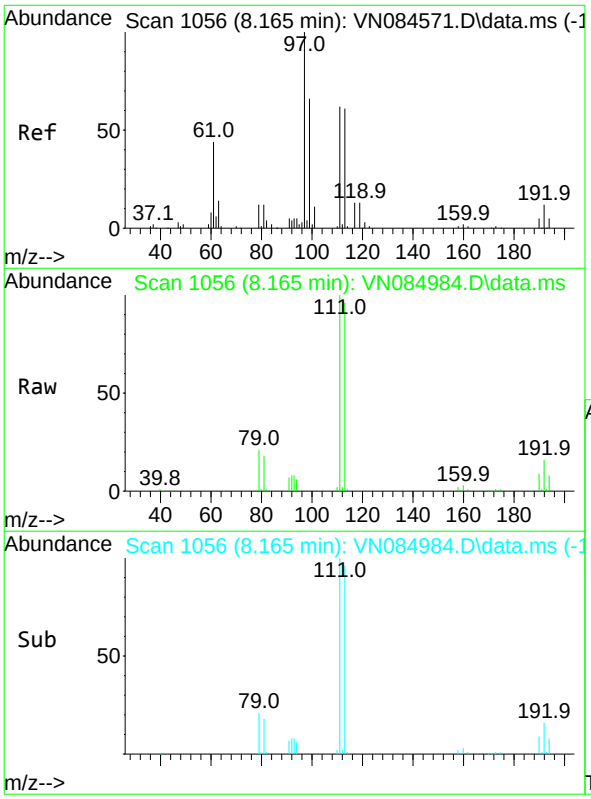
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Tgt Ion:114 Resp: 307613

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.6	0.0	31.6

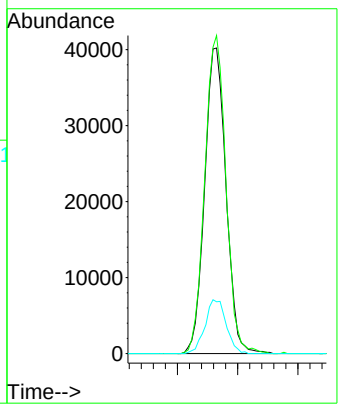


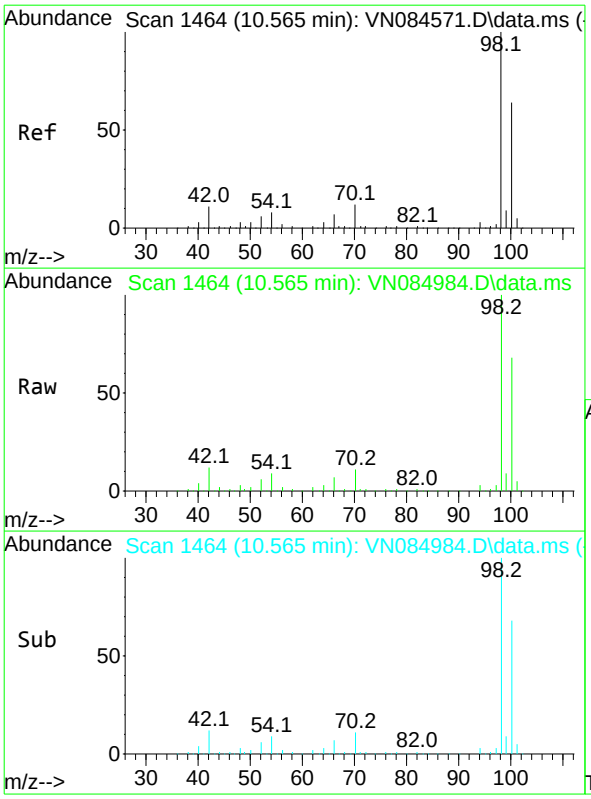


#35
Dibromofluoromethane
Concen: 47.540 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Tgt Ion:113 Resp: 98986

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	17.4	13.5	20.3



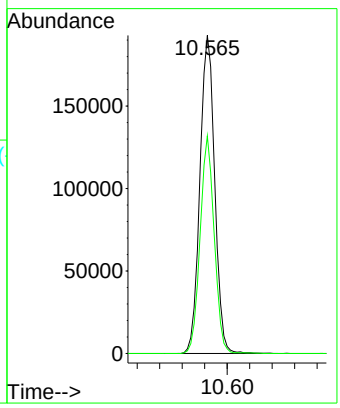


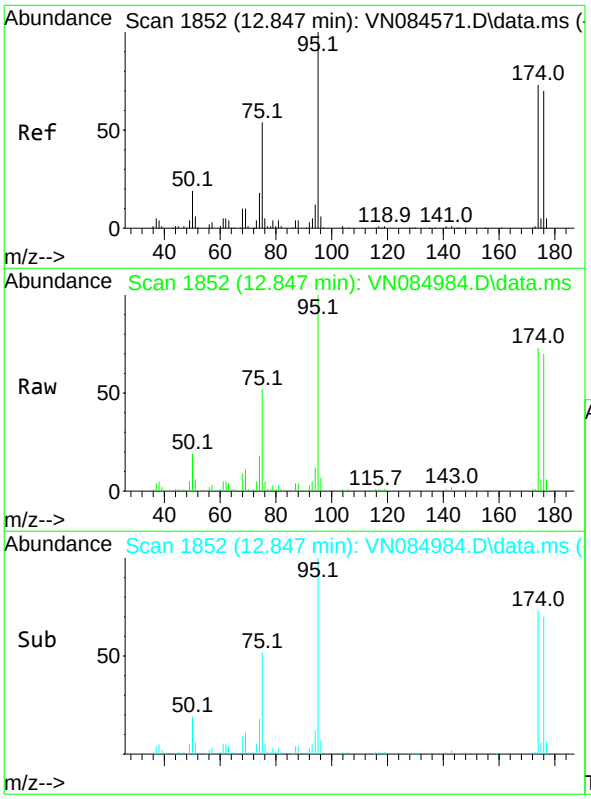
#50
Toluene-d8
Concen: 45.897 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Tgt Ion: 98 Resp: 352034

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

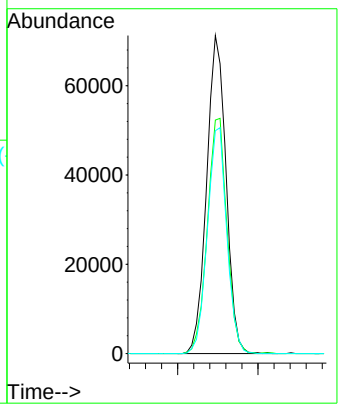


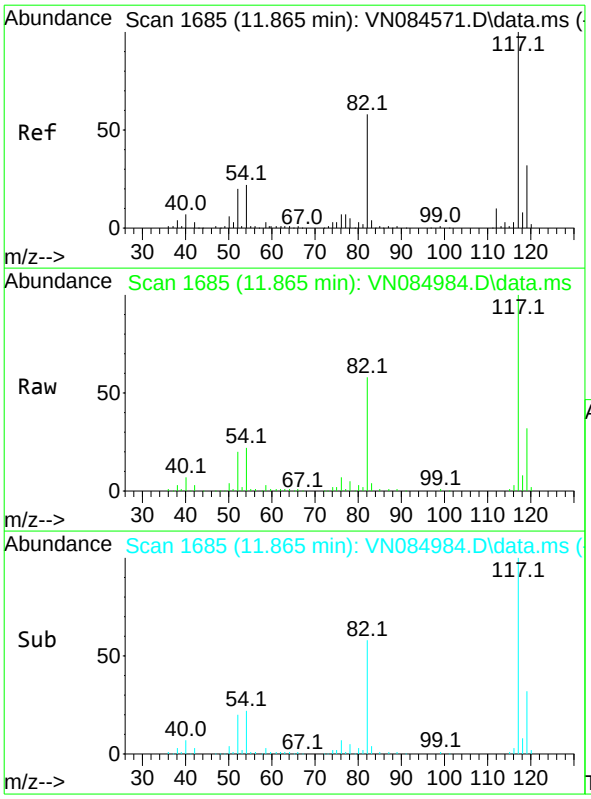


#62
4-Bromofluorobenzene
Concen: 41.666 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Tgt Ion: 95 Resp: 119438

Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	145.2
176	71.0	0.0	140.0



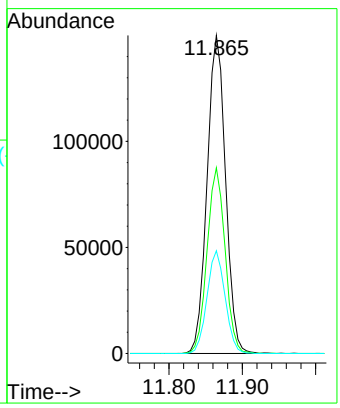


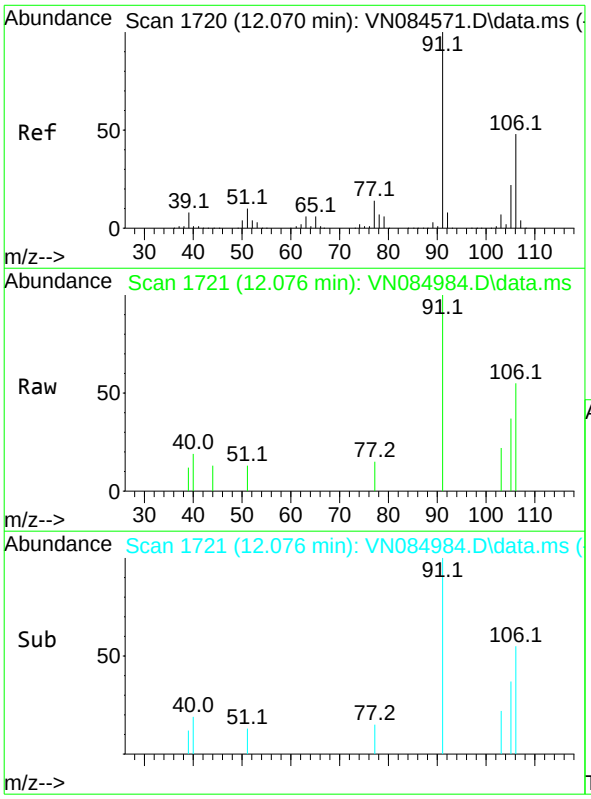
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Tgt Ion:117 Resp: 262227

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.2	70.8
119	32.3	25.4	38.0

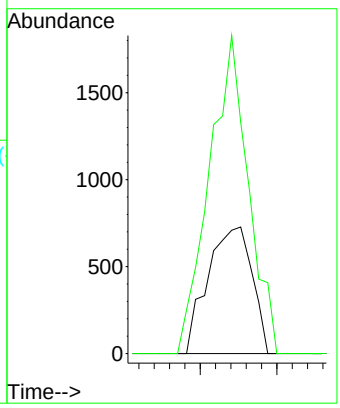


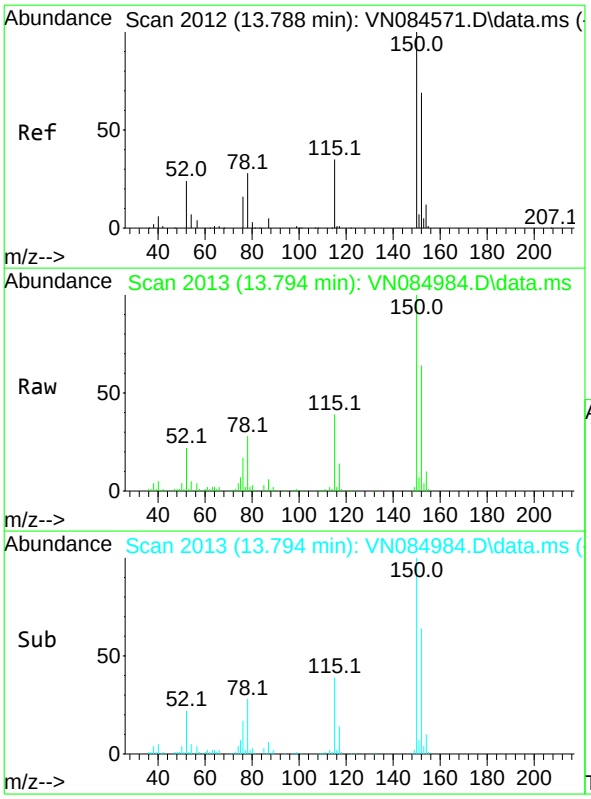


#68
m/p-Xylenes
Concen: 0.394 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Tgt Ion:106 Resp: 1461

Ion	Ratio	Lower	Upper
106	100		
91	221.4	167.1	250.7



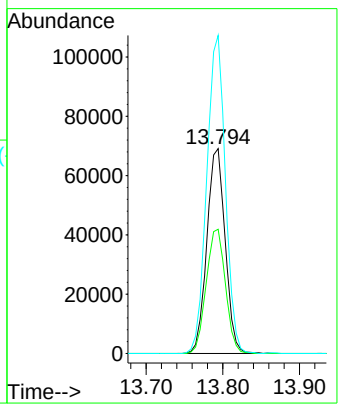


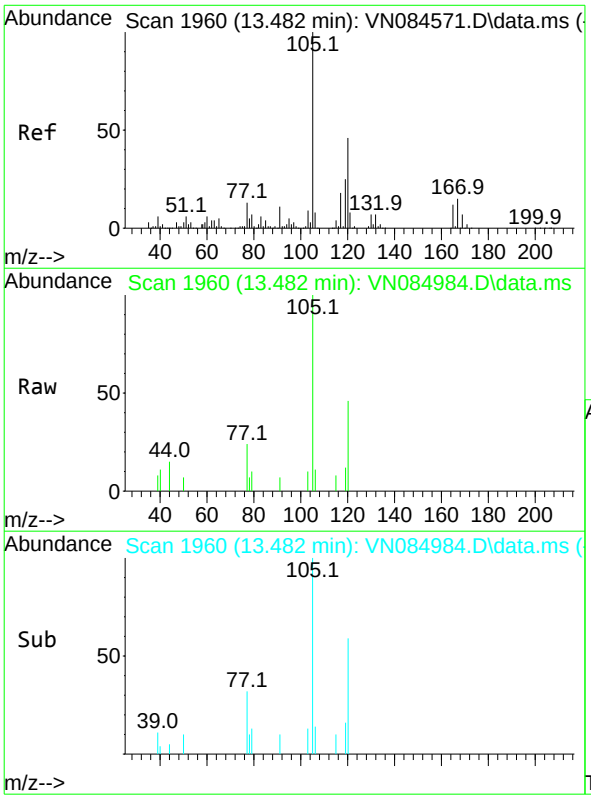
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

Tgt Ion:152 Resp: 114908

Ion	Ratio	Lower	Upper
152	100		
115	63.4	31.3	93.9
150	157.3	0.0	349.8

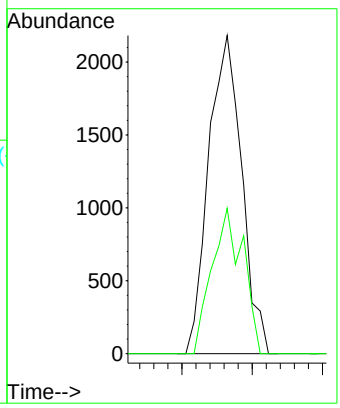




#84
1,2,4-Trimethylbenzene
Concen: 0.518 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN084984.D
Acq: 20 Nov 2024 21:22

Tgt Ion:105 Resp: 3571

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.3	66.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

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

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

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

Signal : TIC: VN084984.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.289	51	57	66	rBV5	18614	38315	4.09%	0.742%
2	2.853	140	153	154	rBV6	11733	31114	3.32%	0.602%
3	2.918	156	164	165	rVV7	6995	14841	1.58%	0.287%
4	8.165	1046	1056	1060	rBV	132418	324286	34.58%	6.276%
5	8.218	1060	1065	1076	rVB	237998	520534	55.51%	10.074%
6	8.577	1116	1126	1134	rBV	154484	347130	37.02%	6.718%
7	8.724	1134	1151	1152	rBV	38234	110216	11.75%	2.133%
8	9.100	1206	1215	1229	rBV	355099	729969	77.85%	14.127%
9	10.565	1455	1464	1472	rBV	516490	937653	100.00%	18.146%
10	11.865	1677	1685	1695	rBV	472798	814212	86.84%	15.757%
11	12.847	1844	1852	1865	rVB	342534	577224	61.56%	11.171%
12	13.794	2005	2013	2023	rVB	422739	721664	76.96%	13.966%

Sum of corrected areas: 5167158

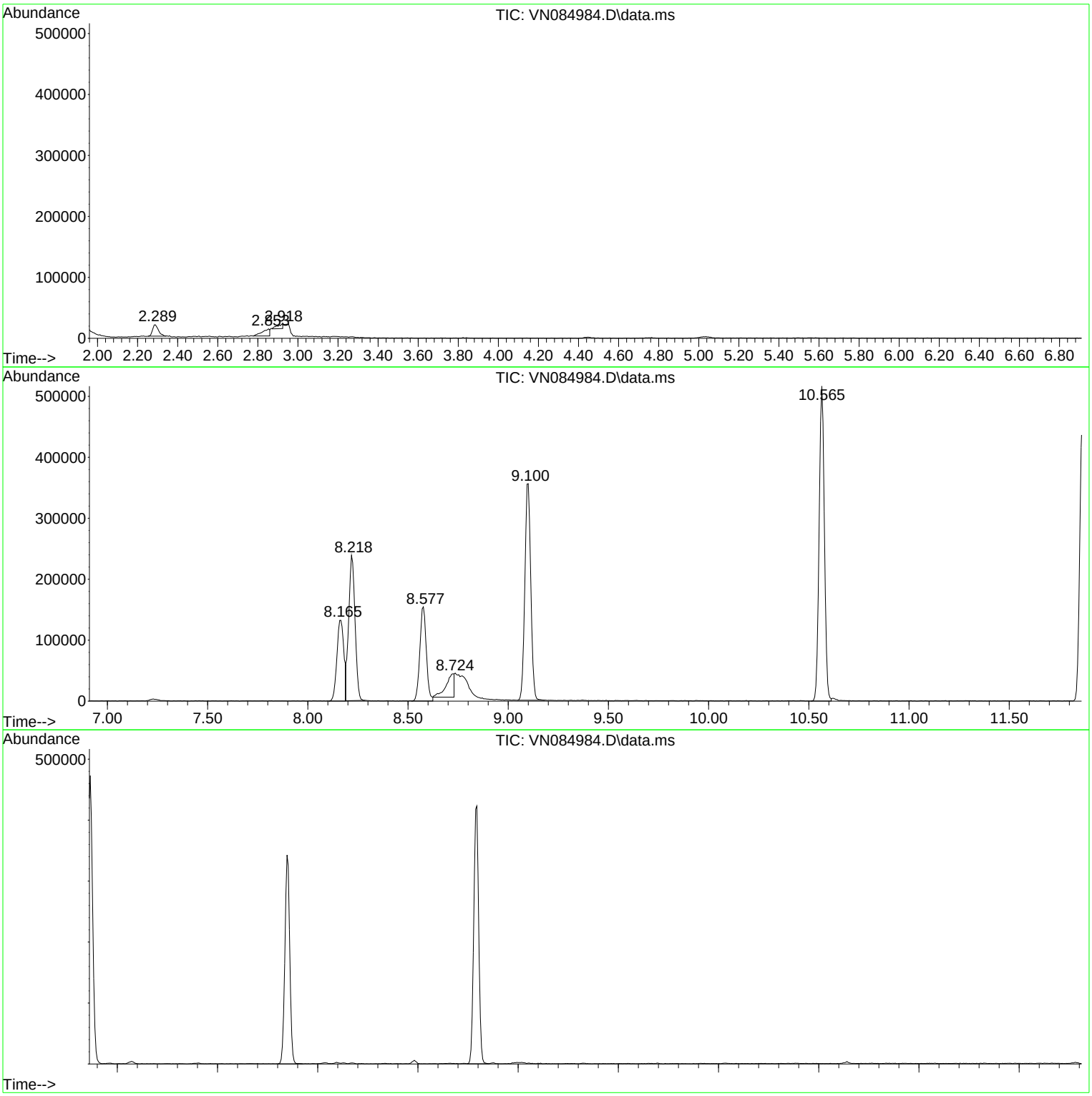
Sample Results: **VN084984.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

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

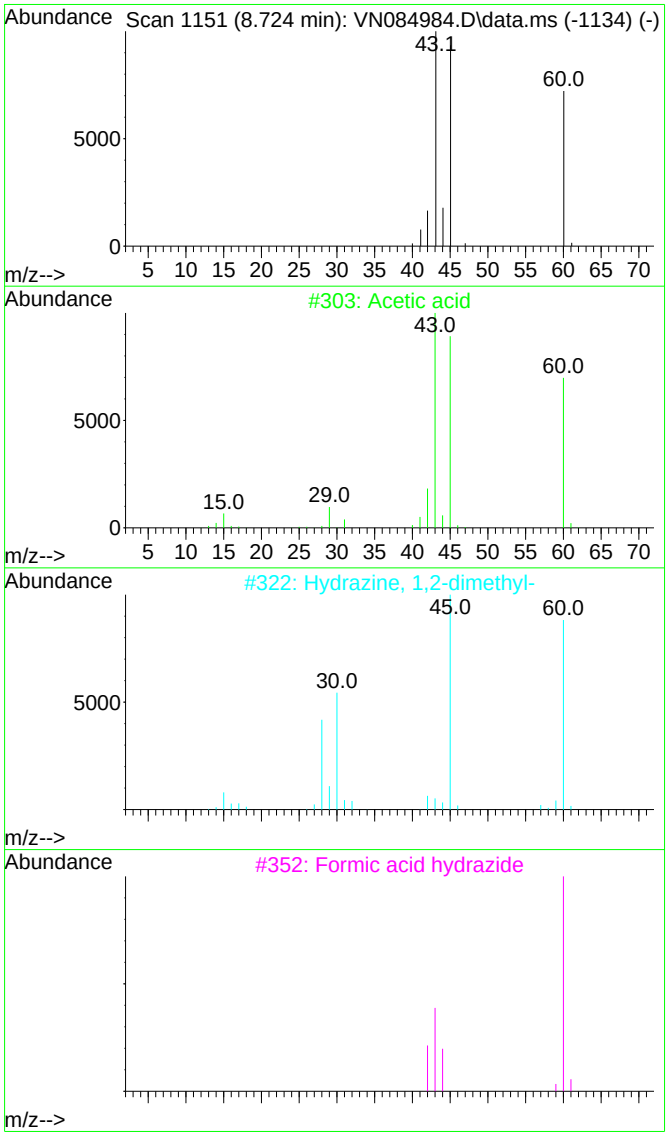
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

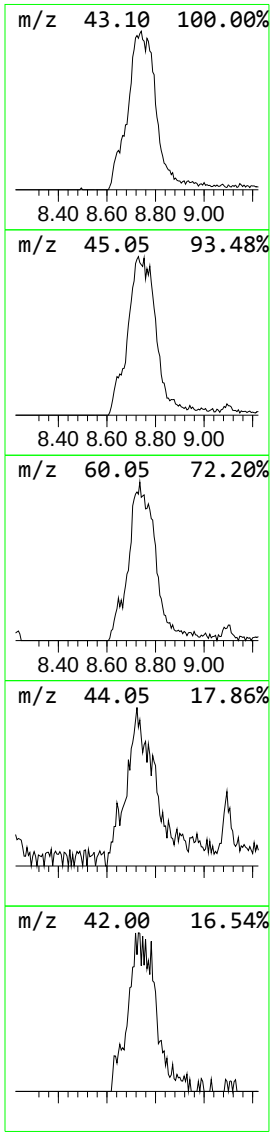
****

Peak Number 1 Acetic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.724	7.55 ug/l	110216	1,4-Difluorobenzene	9.100

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid	60	C2H4O2	000064-19-7	90
2	Hydrazine, 1,2-dimethyl-	60	C2H8N2	000540-73-8	9
3	Formic acid hydrazide	60	CH4N2O	000624-84-0	9
4	Ammonium acetate	77	C2H7NO2	000631-61-8	9
5	Formamidoxime	60	CH4N2O	000624-82-8	7





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084984.D
Acq On : 20 Nov 2024 21:22
Operator : JC\MD
Sample : P4892-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-310-SW

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

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Acetic acid	8.724	7.5	ug/l	110216	2	9.100	729969	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

Quant Time: Nov 21 00:34:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

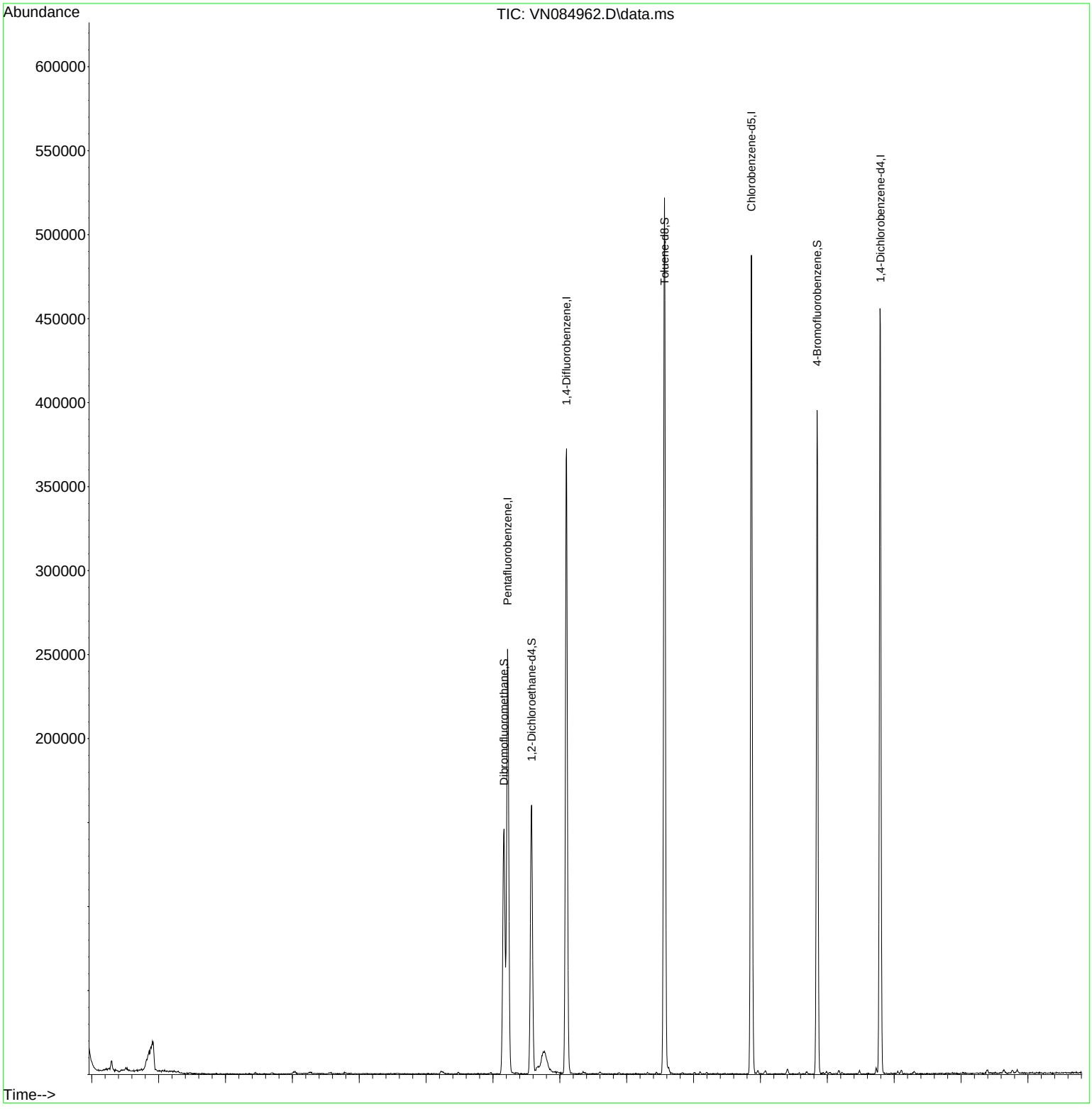
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	178908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319489	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	277659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123641	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131967	51.070	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.140%			
35) Dibromofluoromethane	8.165	113	107113	49.531	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.060%			
50) Toluene-d8	10.565	98	366987	46.068	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.140%			
62) 4-Bromofluorobenzene	12.847	95	138133	46.397	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.800%			
Target Compounds						Qvalue

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

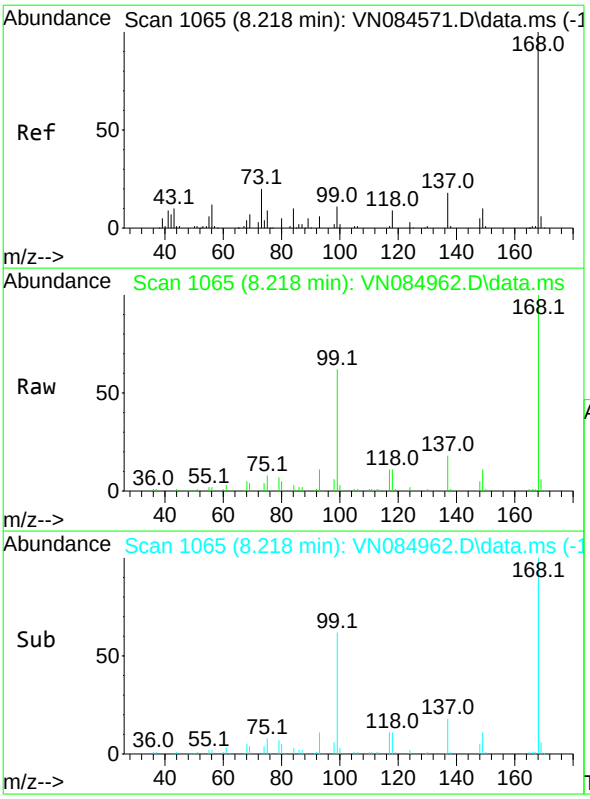
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

Quant Time: Nov 21 00:34:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



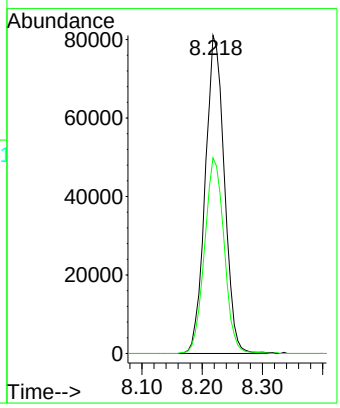
Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

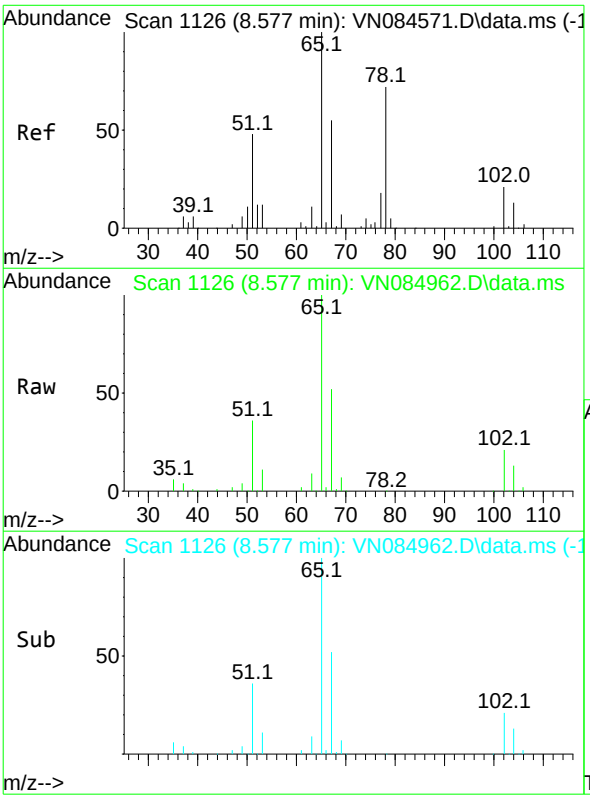


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion:168 Resp: 178908

Ion	Ratio	Lower	Upper
168	100		
99	61.5	54.2	81.2

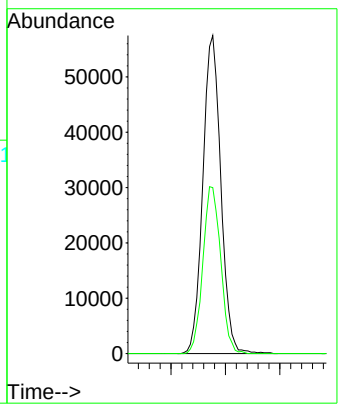




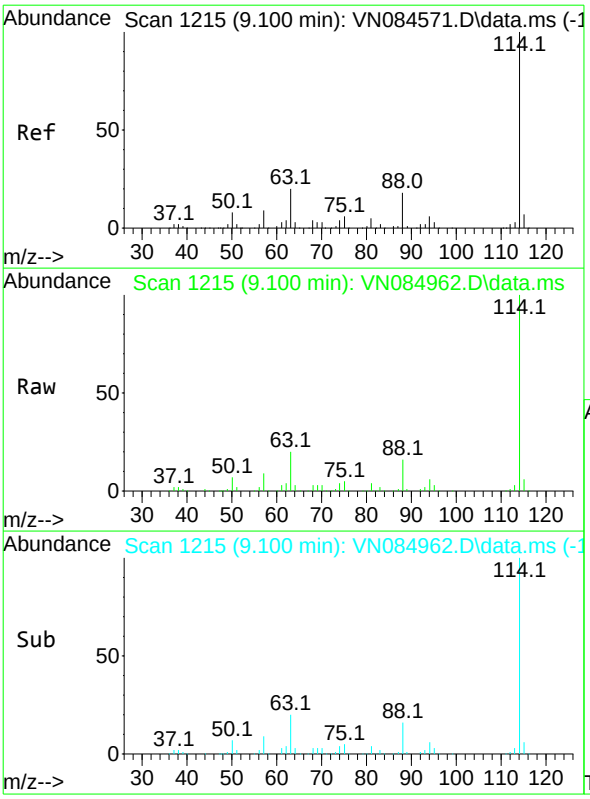
#33
1,2-Dichloroethane-d4
Concen: 51.070 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion: 65 Resp: 131967

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.0



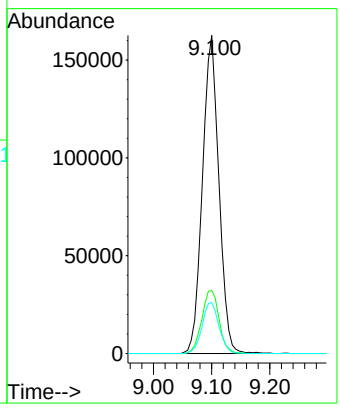
Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

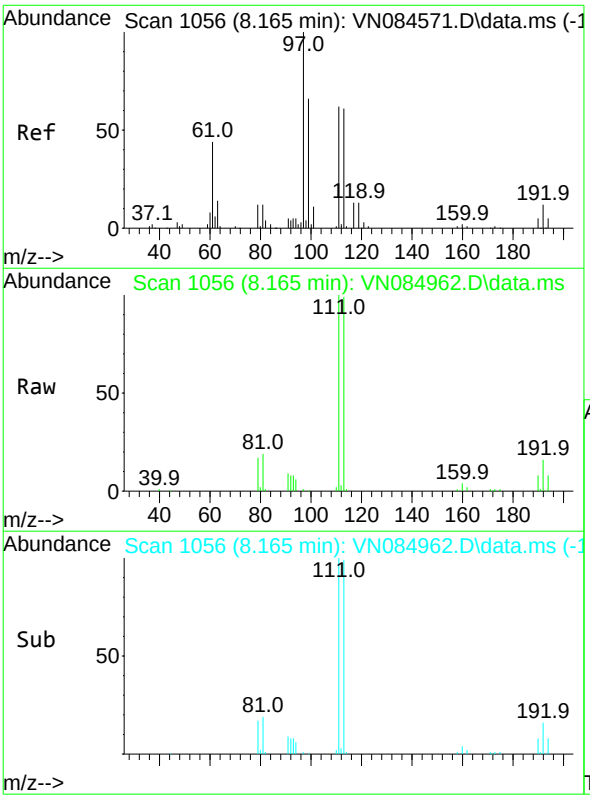


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion:114 Resp: 319489

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.8
88	16.0	0.0	31.6

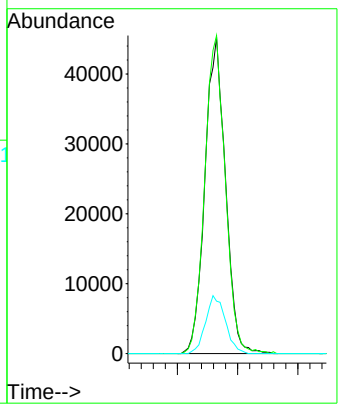




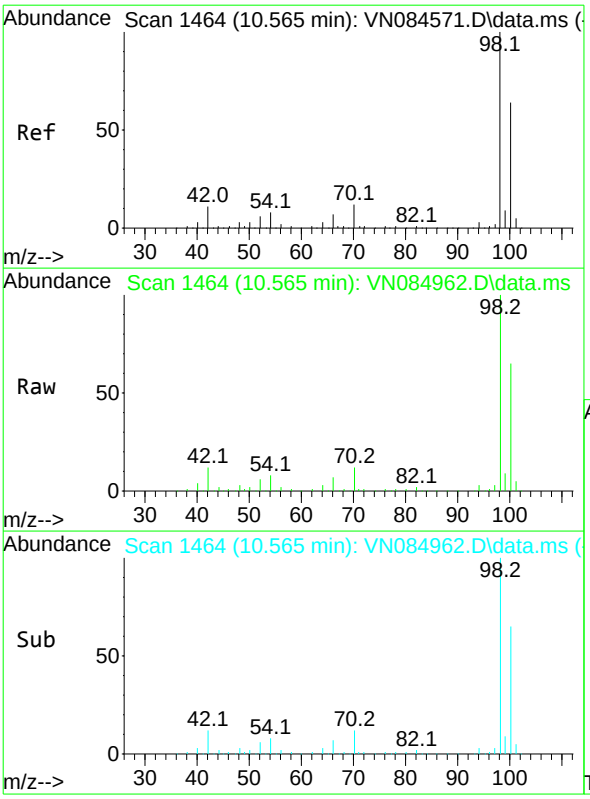
#35
Dibromofluoromethane
Concen: 49.531 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion:113 Resp: 107113

Ion	Ratio	Lower	Upper
113	100		
111	100.6	83.3	124.9
192	17.7	13.5	20.3



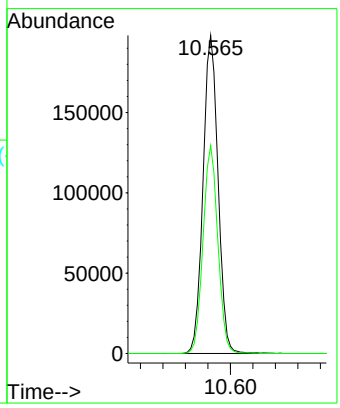
Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

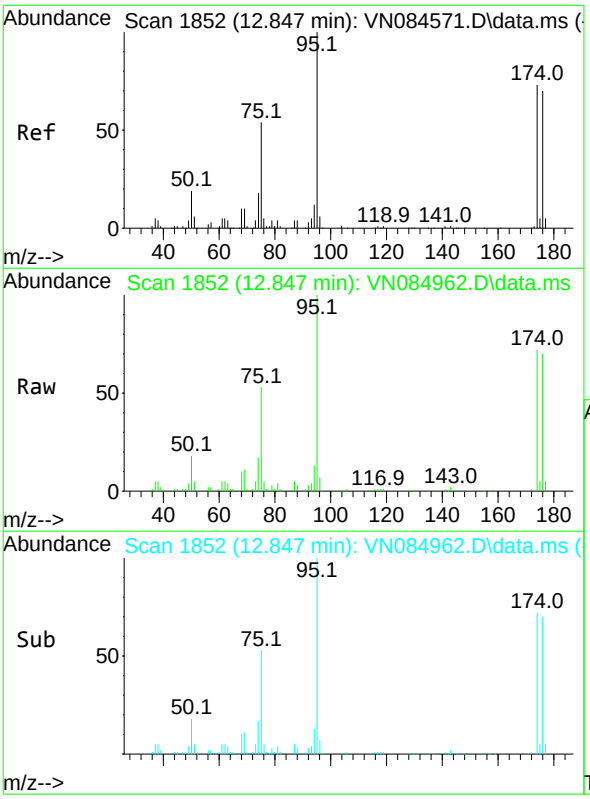


#50
Toluene-d8
Concen: 46.068 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion: 98 Resp: 366987

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.7	79.1

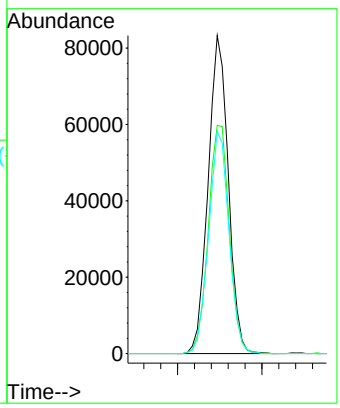


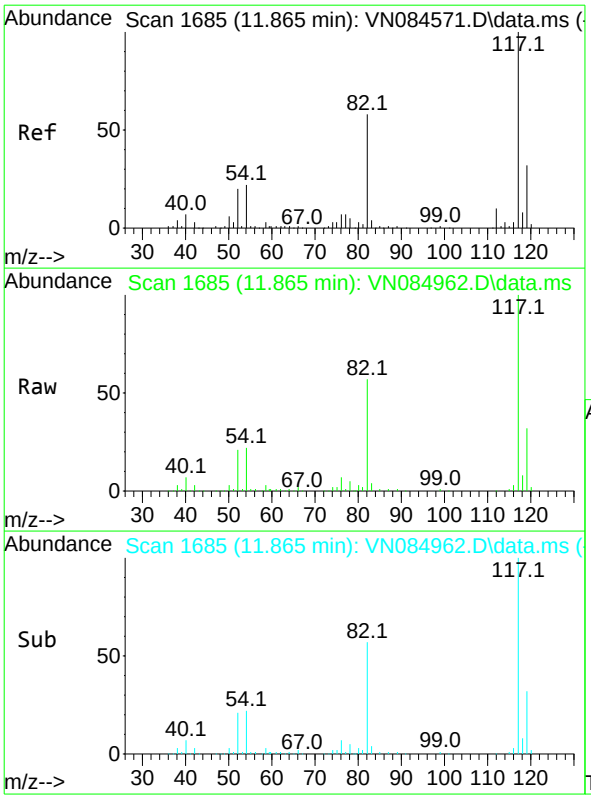


#62
4-Bromofluorobenzene
Concen: 46.397 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion: 95 Resp: 138133

Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	145.2
176	70.5	0.0	140.0



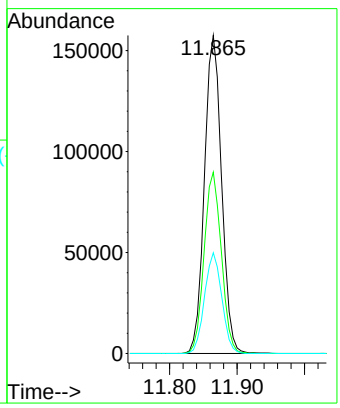


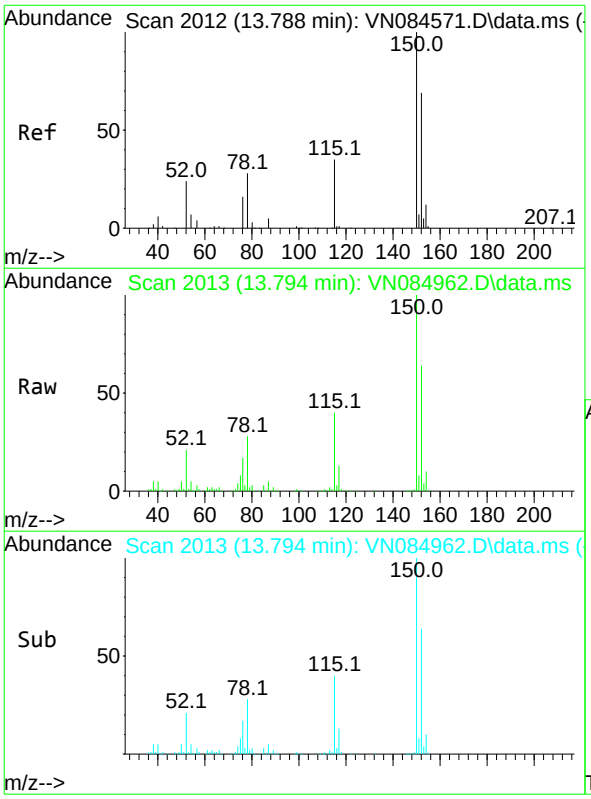
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

Tgt Ion:117 Resp: 277659

Ion	Ratio	Lower	Upper
117	100		
82	57.0	47.2	70.8
119	31.7	25.4	38.0

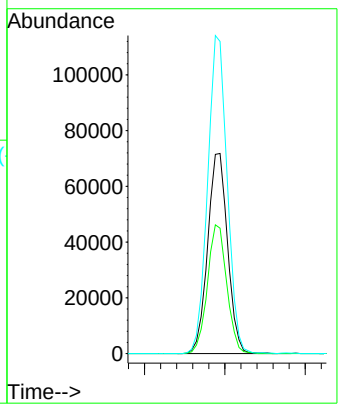




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084962.D
Acq: 20 Nov 2024 12:21

Tgt Ion:152 Resp: 123641

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	155.7	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

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

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

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

Signal : TIC: VN084962.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.295	54	58	66	rVB2	6509	12920	1.33%	0.243%
2	2.818	137	147	148	rBV4	6310	10780	1.11%	0.202%
3	8.165	1044	1056	1060	rBV	145988	346283	35.65%	6.502%
4	8.218	1060	1065	1076	rVB	252421	559884	57.64%	10.513%
5	8.577	1116	1126	1134	rBV	160114	359847	37.05%	6.757%
6	8.753	1147	1156	1157	rBV3	8578	18416	1.90%	0.346%
7	9.100	1206	1215	1225	rBV	371811	754393	77.66%	14.166%
8	10.565	1452	1464	1474	rBV	521713	971376	100.00%	18.240%
9	11.865	1676	1685	1694	rBV	487545	863950	88.94%	16.223%
10	12.847	1845	1852	1861	rBV	395157	659134	67.86%	12.377%
11	13.788	2005	2012	2022	rVB	455514	768453	79.11%	14.430%

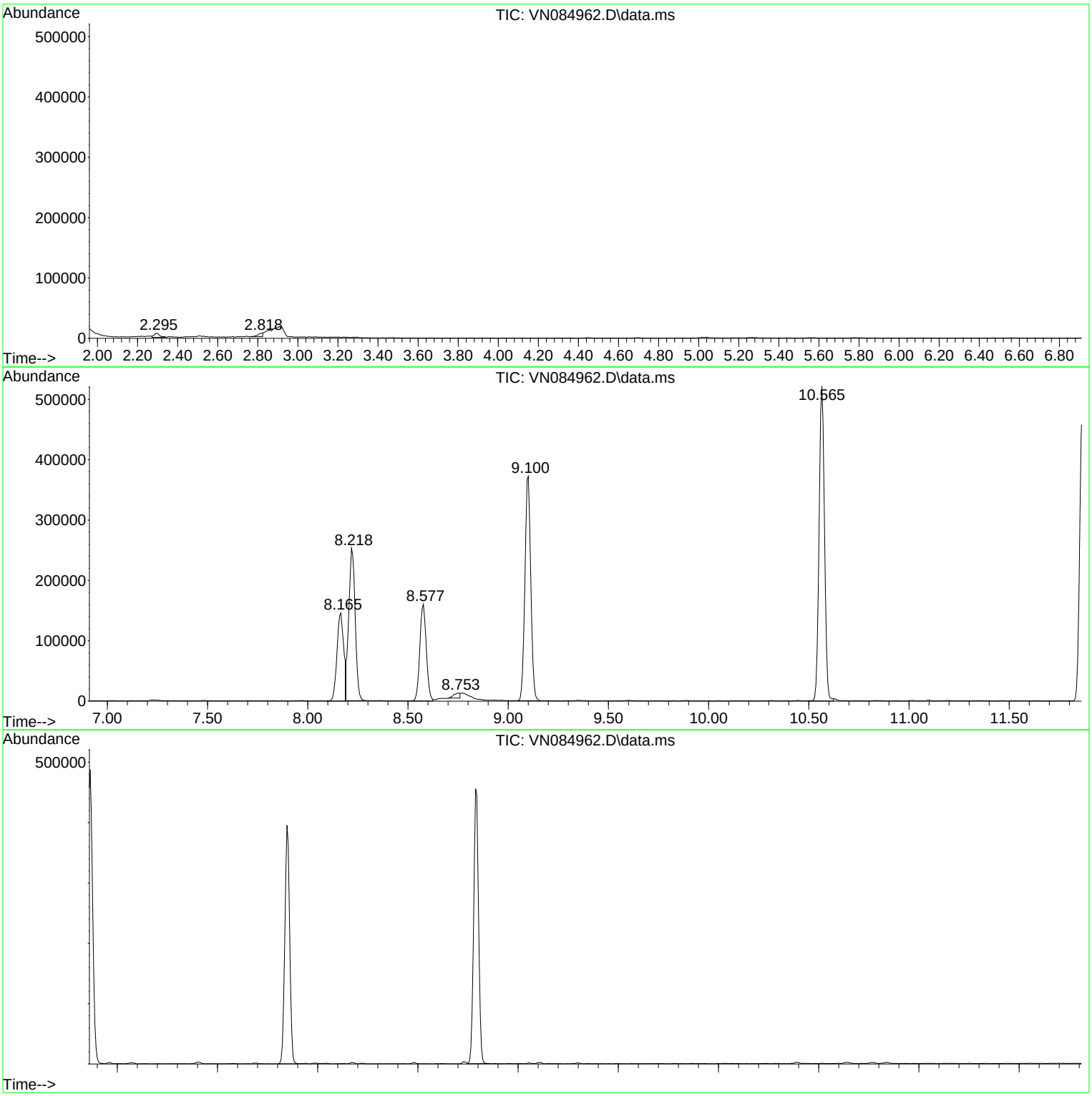
Sum of corrected areas: 5325436

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

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

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084962.D
Acq On : 20 Nov 2024 12:21
Operator : JC\MD
Sample : VN1120WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBL01

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	139506	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	270751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	245370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	89046	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	83114	51.857	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.720%			
35) Dibromofluoromethane	7.640	113	84115	48.450	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.900%			
50) Toluene-d8	10.109	98	329763	48.218	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.440%			
62) 4-Bromofluorobenzene	12.408	95	104043	47.324	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 94.640%			

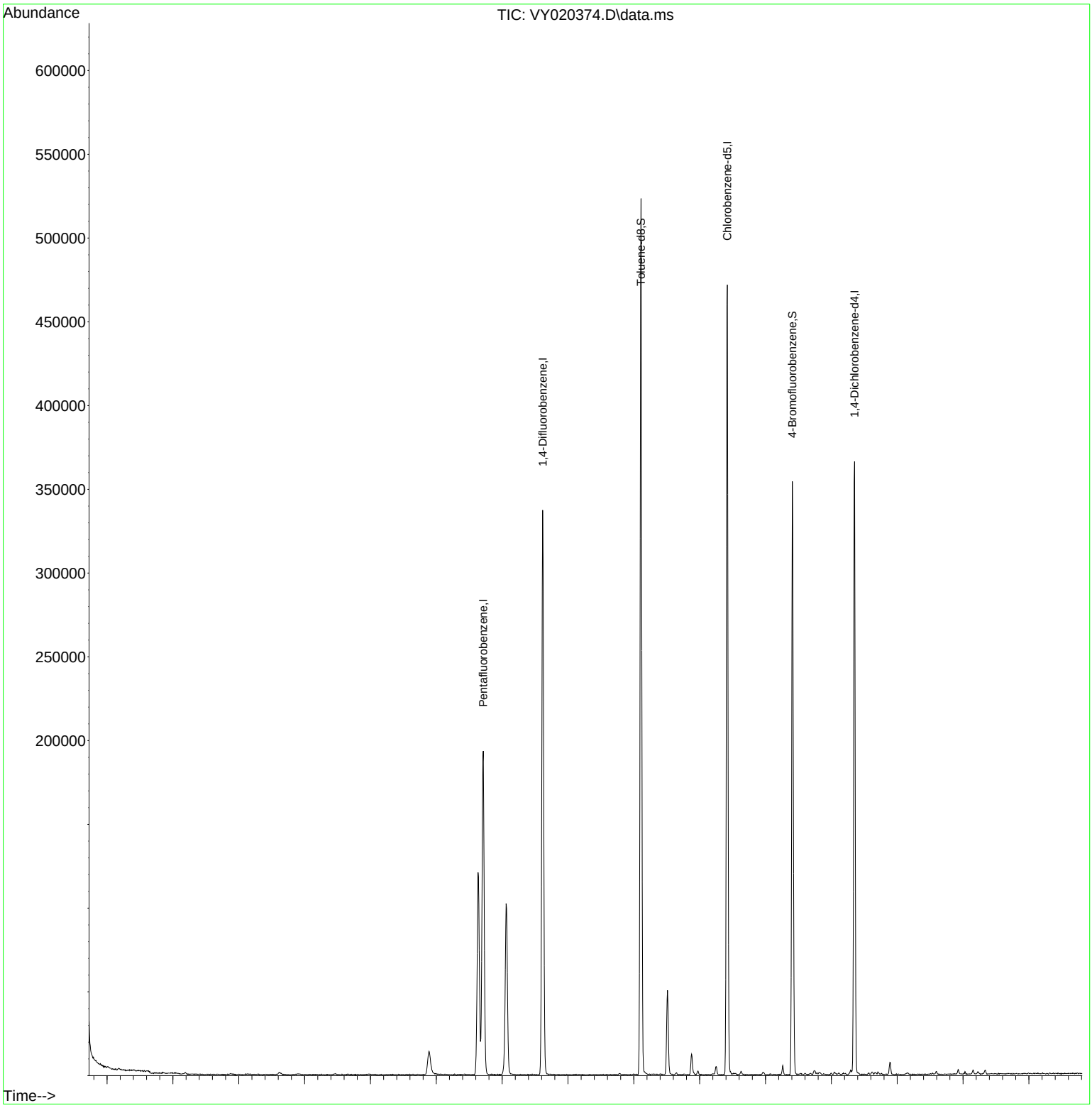
Target Compounds Qvalue

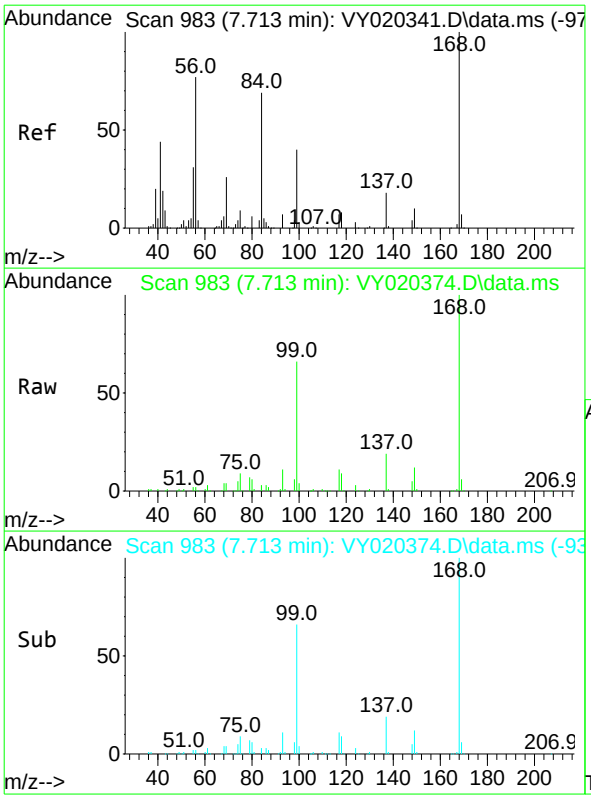
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



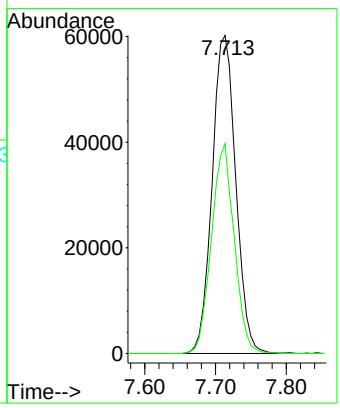


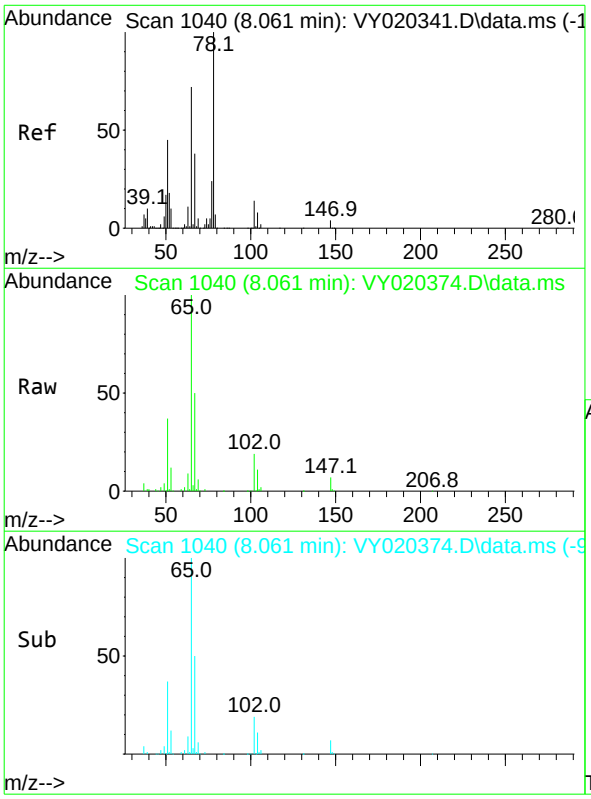
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Tgt Ion:168 Resp: 139506

Ion	Ratio	Lower	Upper
168	100		
99	66.0	46.6	69.8

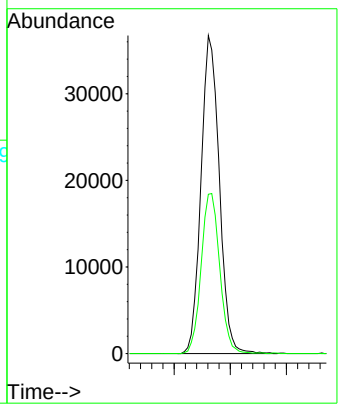


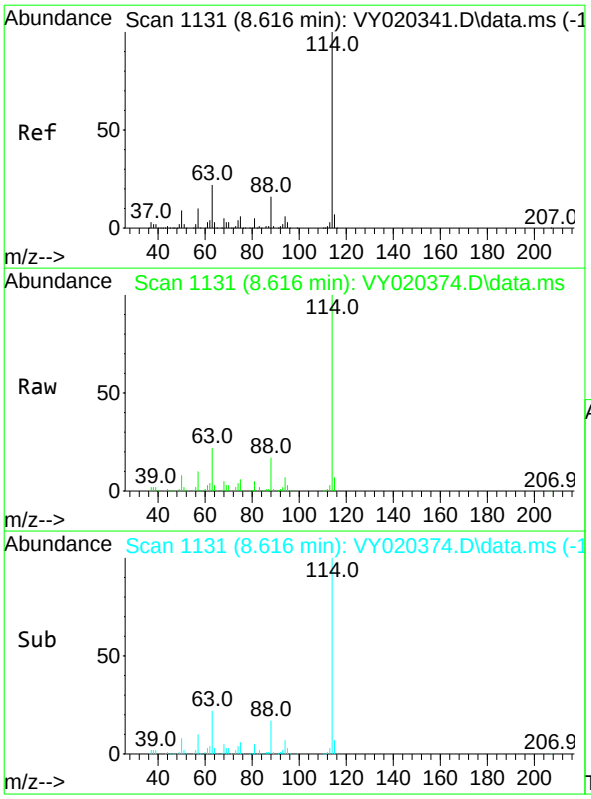


#33
1,2-Dichloroethane-d4
Concen: 51.857 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 65 Resp: 83114

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.8



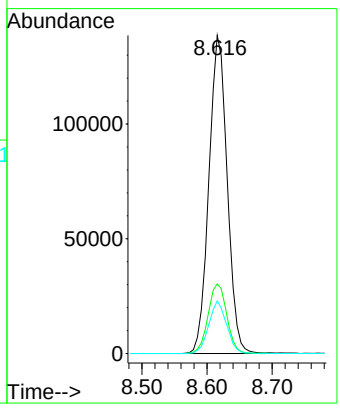


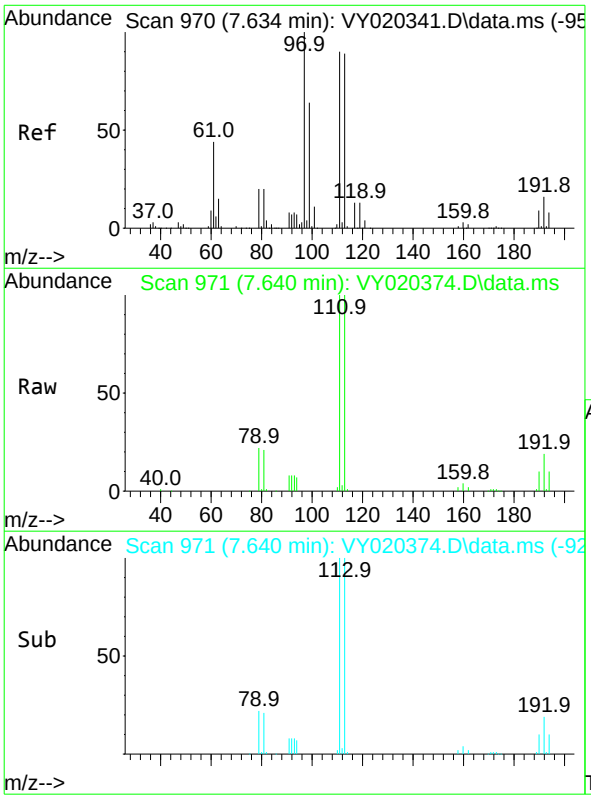
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Tgt Ion:114 Resp: 270751

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.8
88	16.5	0.0	32.0

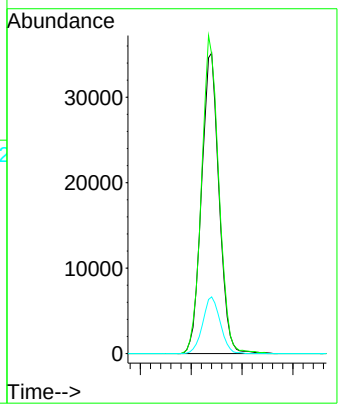


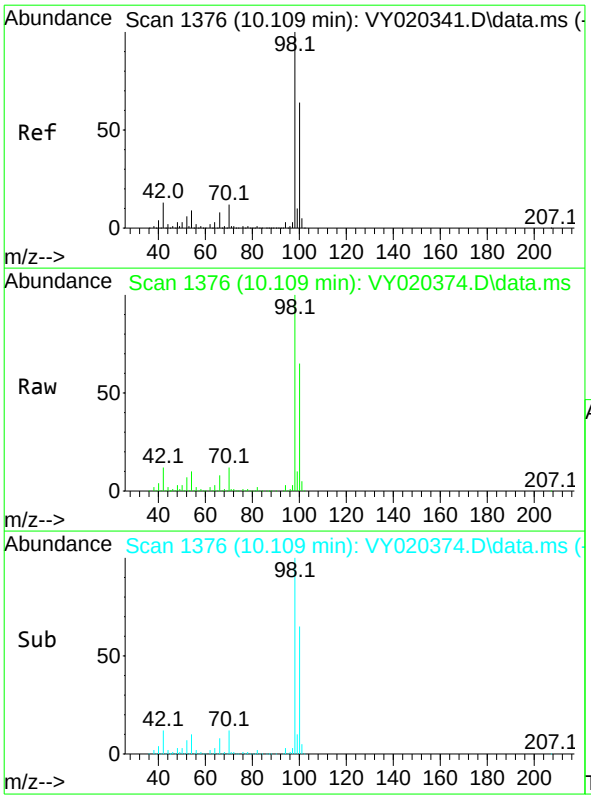


#35
Dibromofluoromethane
Concen: 48.450 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion:113 Resp: 84115

Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.4	122.0
192	18.9	15.1	22.7



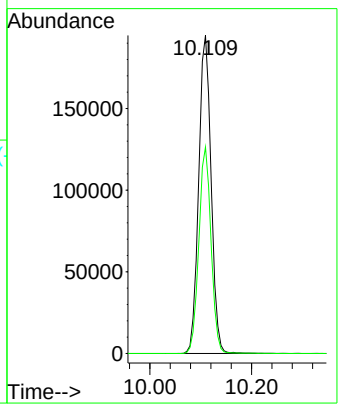


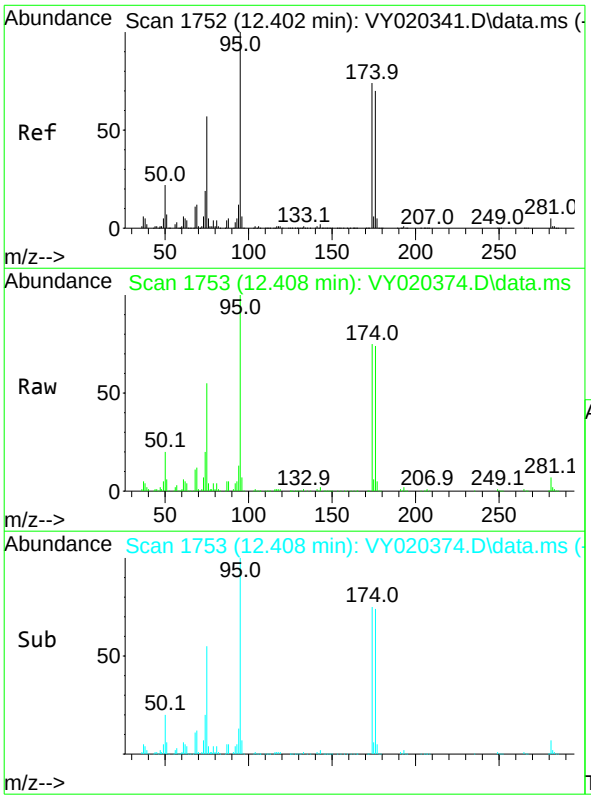
#50
Toluene-d8
Concen: 48.218 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Tgt Ion: 98 Resp: 329763

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.3	76.9

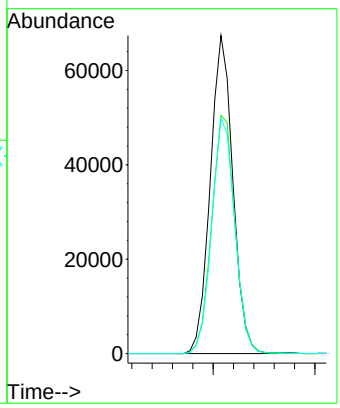


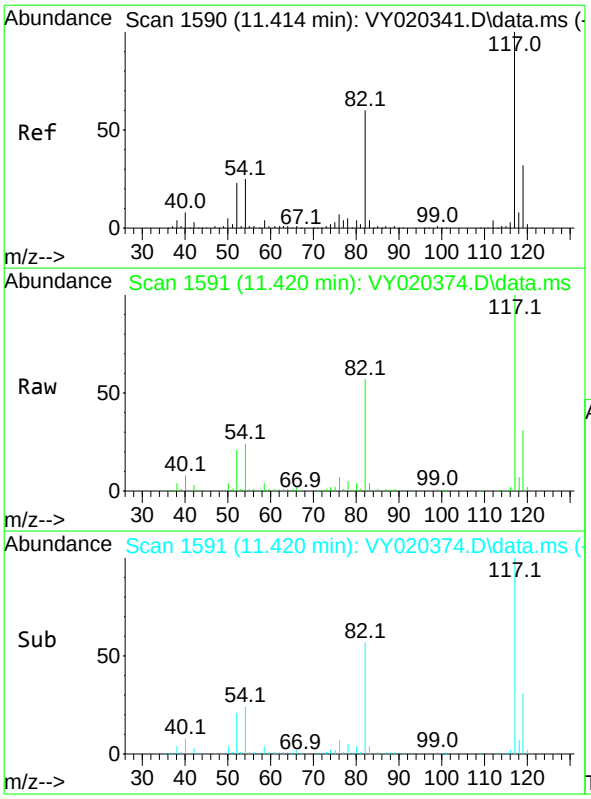


#62
4-Bromofluorobenzene
Concen: 47.324 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 95 Resp: 104043

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	156.8
176	75.4	0.0	152.0



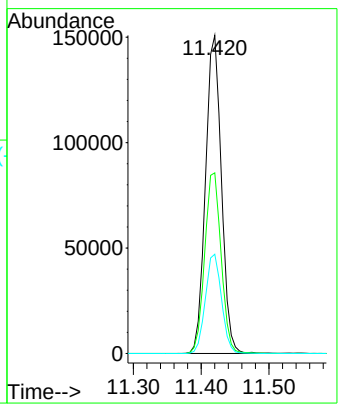


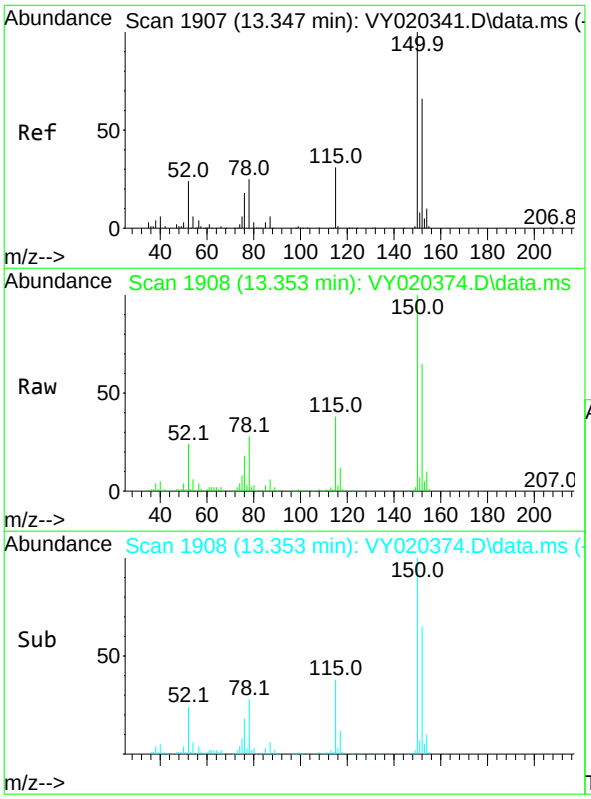
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Tgt Ion:117 Resp: 245370

Ion	Ratio	Lower	Upper
117	100		
82	56.8	48.2	72.4
119	31.2	25.8	38.8

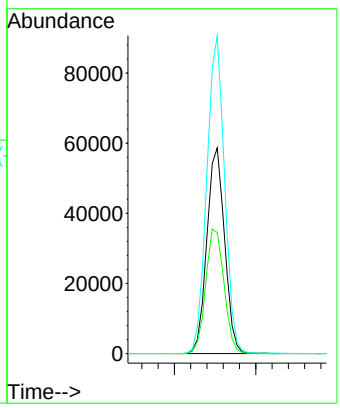




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion:152 Resp: 89046

Ion	Ratio	Lower	Upper
152	100		
115	62.6	30.0	90.0
150	154.3	0.0	348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

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\82Y111924S.M
Title : SW846 8260

Signal : TIC: VY020374.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	835	848	857	rBV	14023	45838	5.14%	0.989%
2	7.634	961	970	976	rBV	120761	283920	31.86%	6.127%
3	7.713	976	983	996	rVB	193066	443131	49.72%	9.563%
4	8.061	1026	1040	1051	rBV	102248	242886	27.25%	5.242%
5	8.616	1122	1131	1142	rBV	337014	659966	74.05%	14.242%
6	10.109	1368	1376	1393	rBV	523019	891259	100.00%	19.234%
7	10.512	1433	1442	1453	rBV	50195	90808	10.19%	1.960%
8	10.877	1497	1502	1512	rVB	12217	22092	2.48%	0.477%
9	11.420	1584	1591	1602	rBV	471263	780231	87.54%	16.838%
10	12.408	1747	1753	1764	rBV2	354121	591084	66.32%	12.756%
11	13.353	1901	1908	1917	rVB	365341	570479	64.01%	12.311%
12	13.889	1989	1996	2001	rBV	7330	12146	1.36%	0.262%

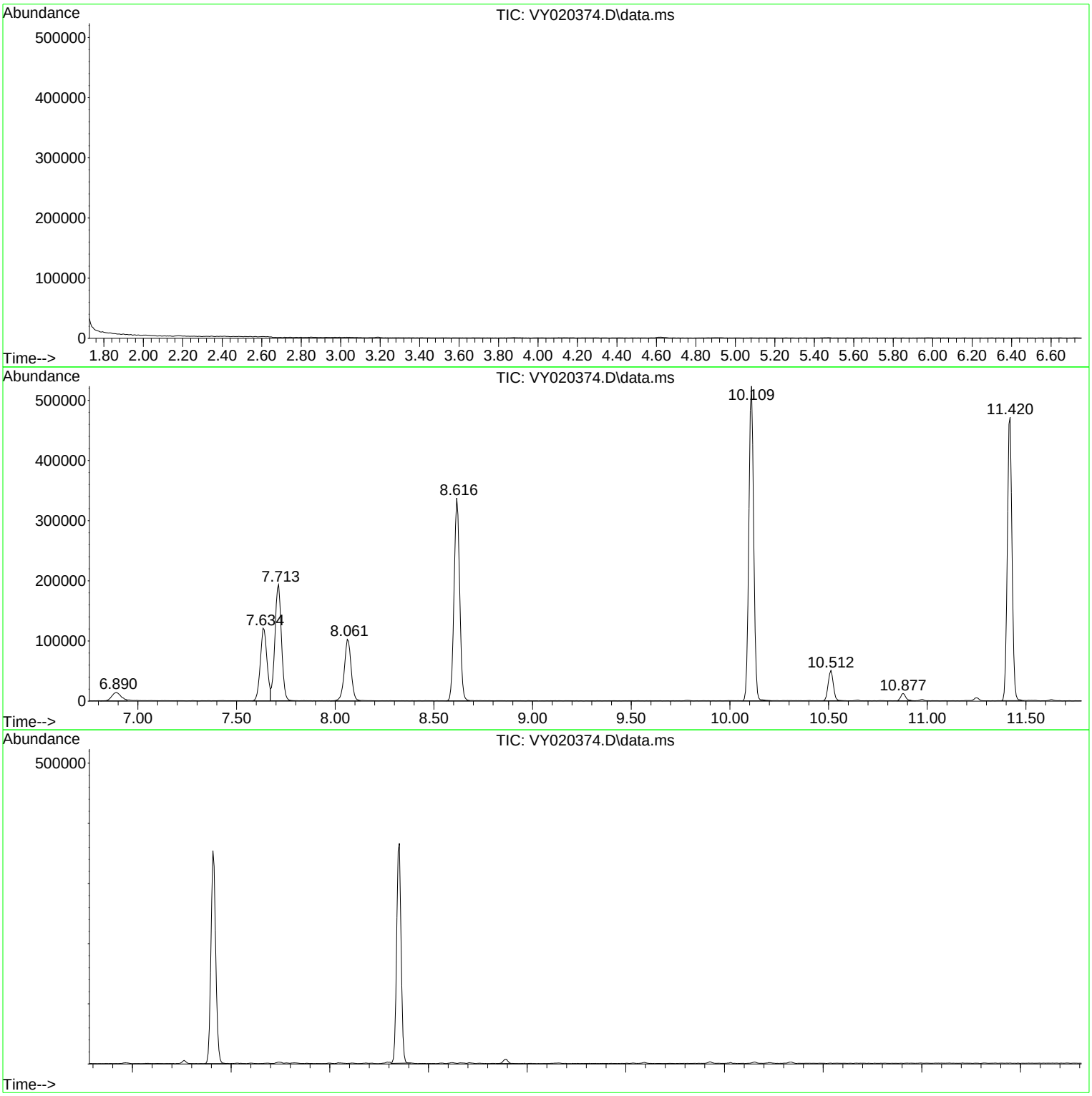
Sum of corrected areas: 4633840

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Time: Nov 22 23:56:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

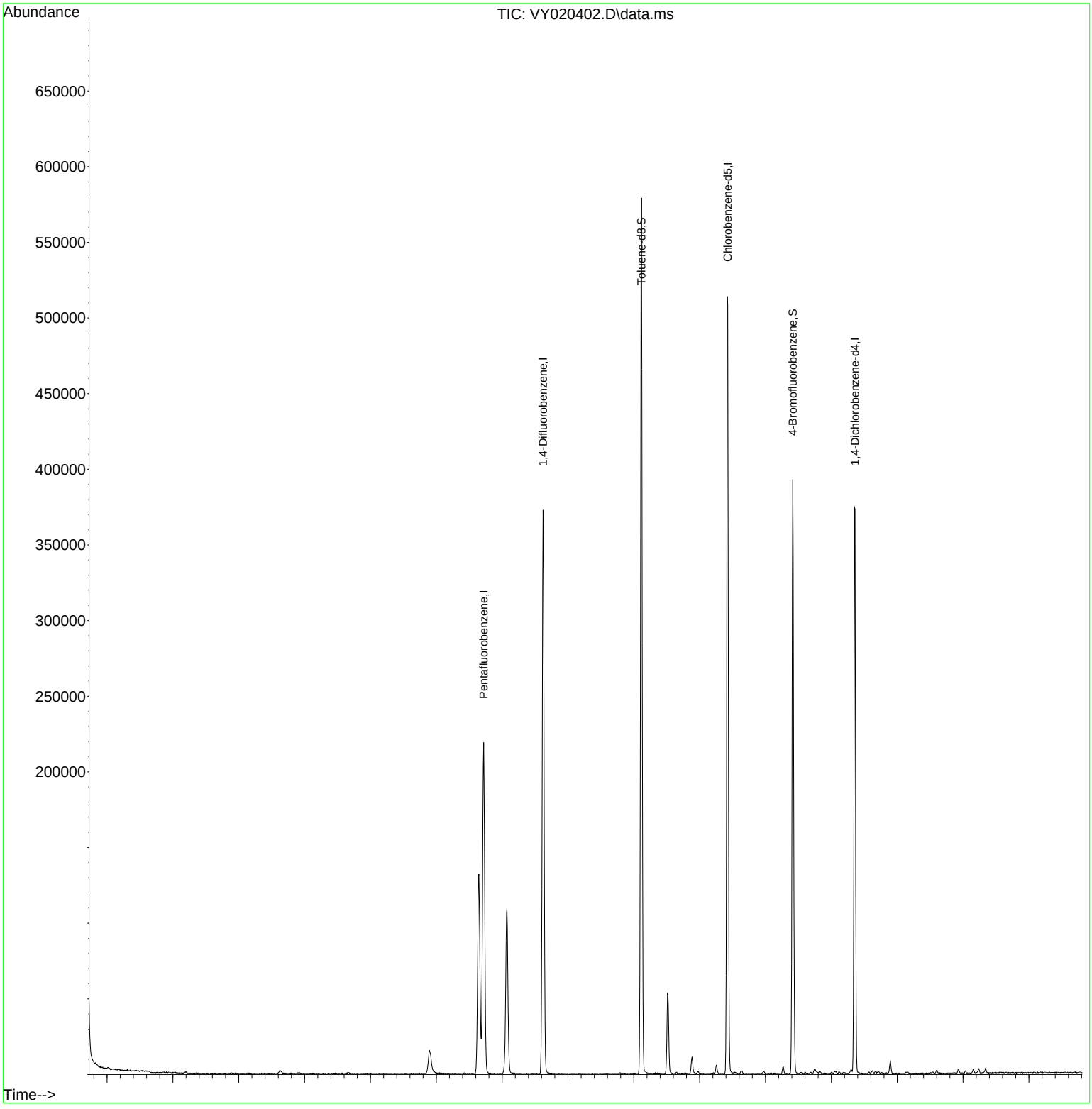
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.720	168	161234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	306842	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	269008	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	94757	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	88239	47.635	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.280%		
35) Dibromofluoromethane	7.646	113	95193	48.381	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.760%		
50) Toluene-d8	10.115	98	368920	47.599	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.200%		
62) 4-Bromofluorobenzene	12.414	95	112970	45.341	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery =	90.680%		
Target Compounds						Qvalue

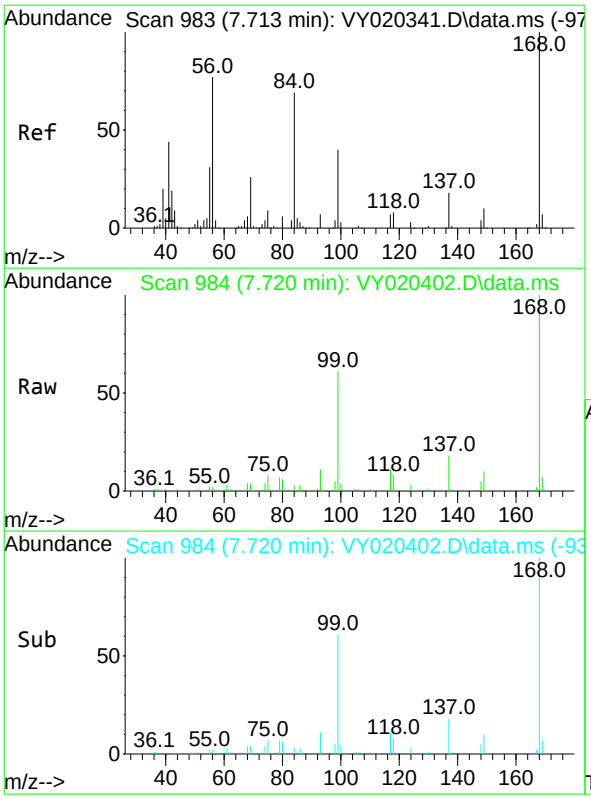
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Time: Nov 22 23:56:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



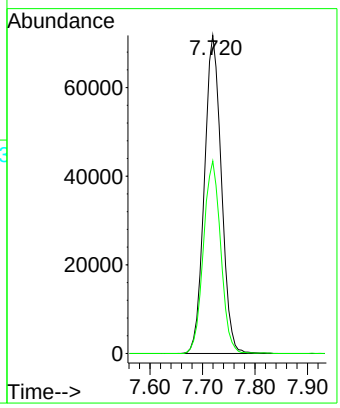


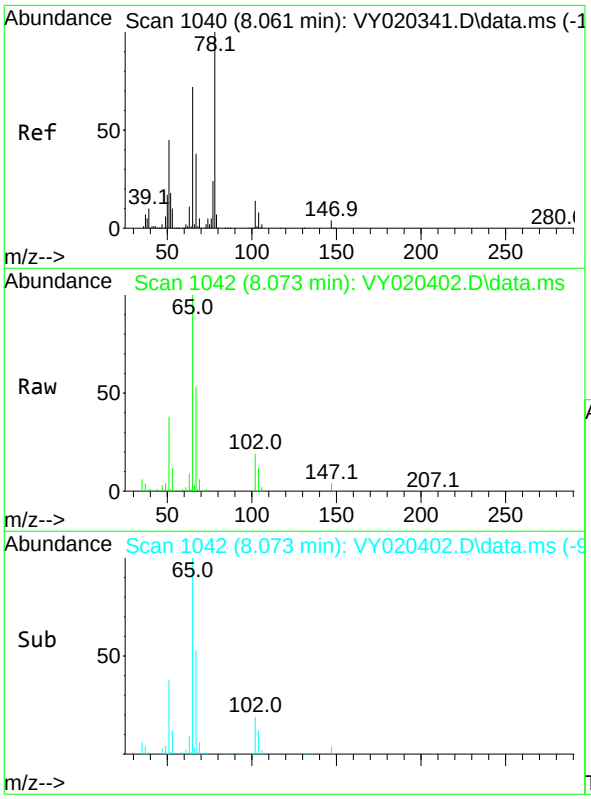
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:168 Resp: 161234

Ion	Ratio	Lower	Upper
168	100		
99	60.5	46.6	69.8

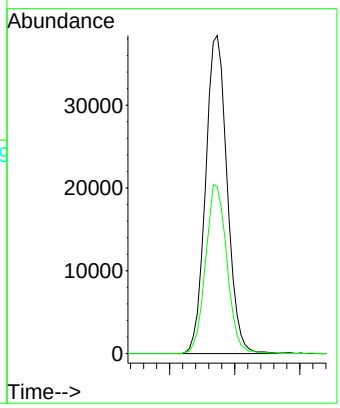


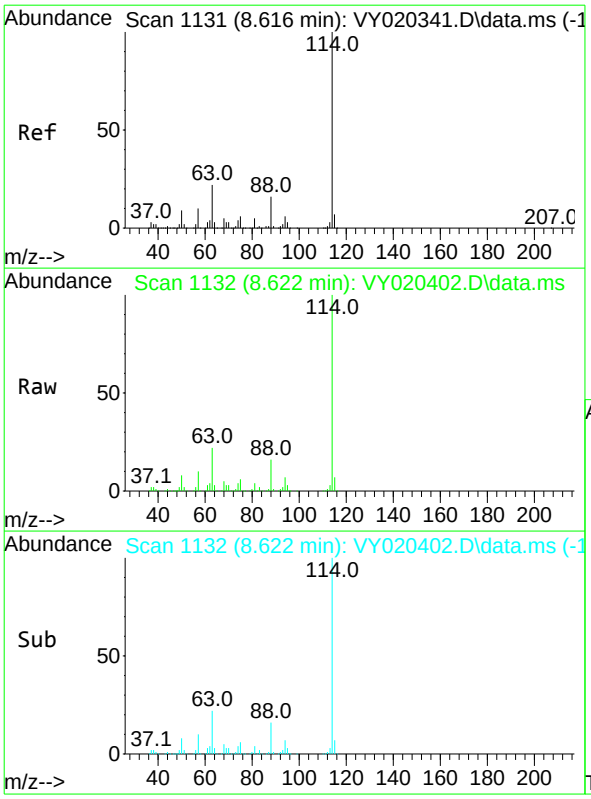


#33
1,2-Dichloroethane-d4
Concen: 47.635 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion: 65 Resp: 88239

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	105.8



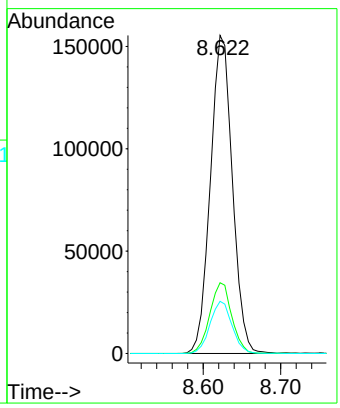


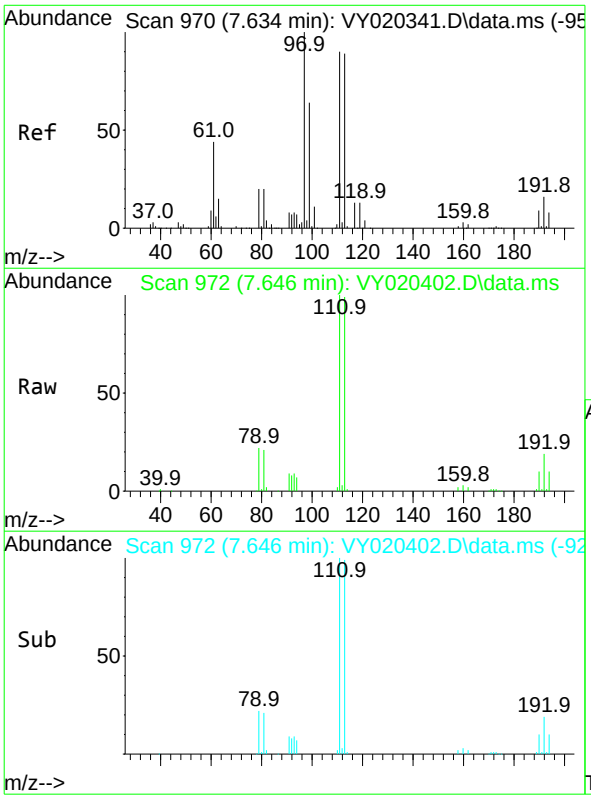
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:114 Resp: 306842

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.8
88	16.4	0.0	32.0

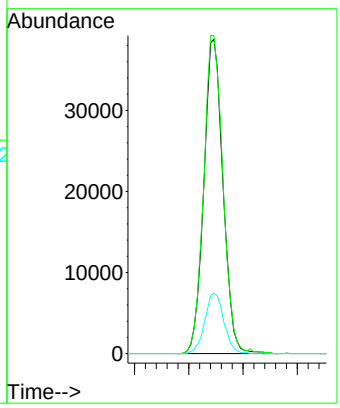


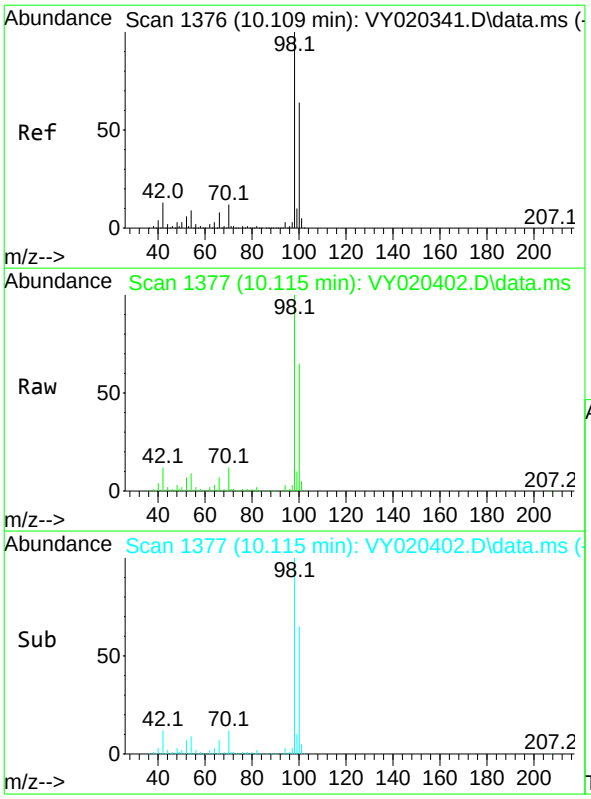


#35
Dibromofluoromethane
Concen: 48.381 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion:113 Resp: 95193

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.0
192	19.2	15.1	22.7



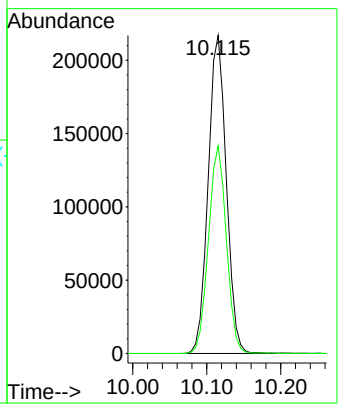


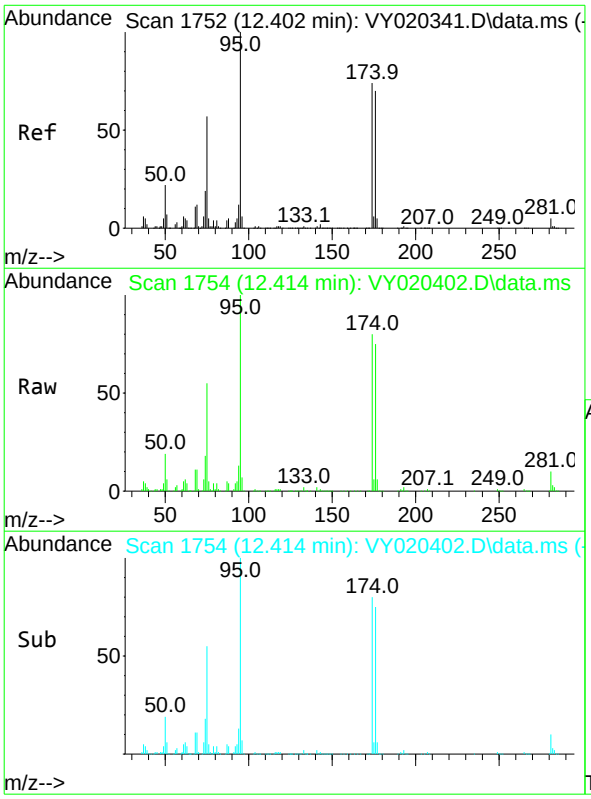
#50
Toluene-d8
Concen: 47.599 ug/l
RT: 10.115 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion: 98 Resp: 368920

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.3	76.9

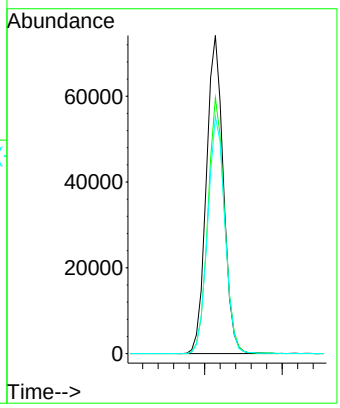


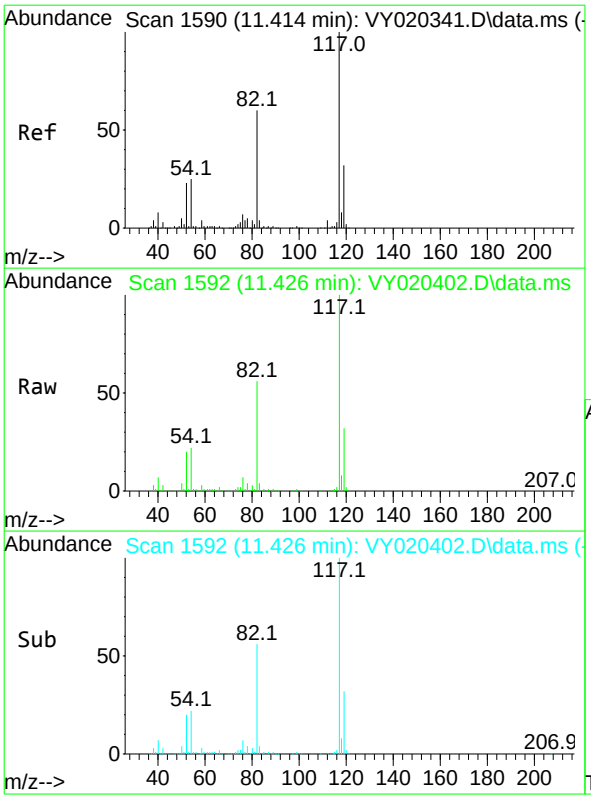


#62
4-Bromofluorobenzene
Concen: 45.341 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion: 95 Resp: 112970

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	156.8
176	75.2	0.0	152.0



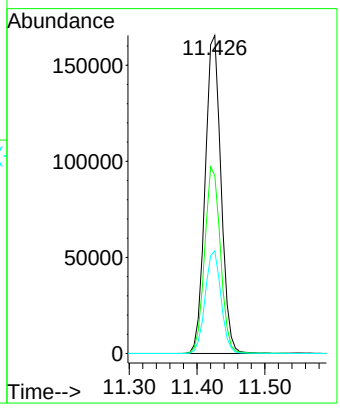


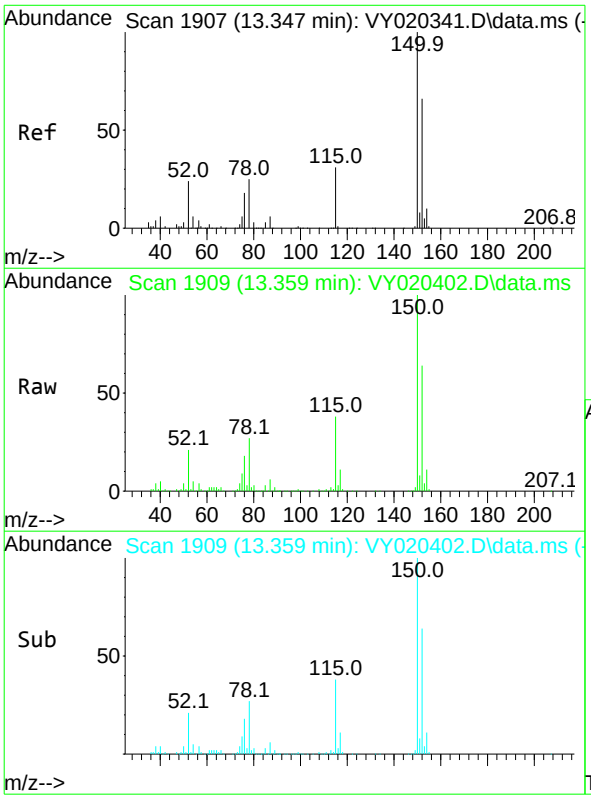
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:117 Resp: 269008

Ion	Ratio	Lower	Upper
117	100		
82	56.0	48.2	72.4
119	32.2	25.8	38.8

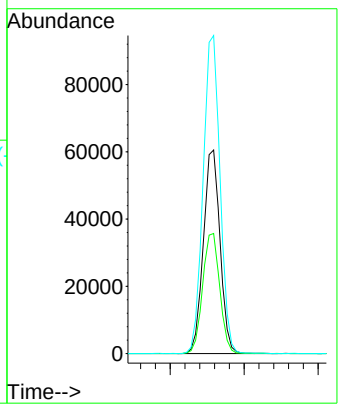




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion:152 Resp: 94757

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.0	90.0
150	158.3	0.0	348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

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\82Y111924S.M
Title : SW846 8260

Signal : TIC: VY020402.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.896	837	849	860	rBV2	15164	49393	5.01%	0.975%
2	7.646	962	972	978	rBV	131653	323040	32.75%	6.375%
3	7.720	978	984	997	rVB	218762	495760	50.26%	9.783%
4	8.073	1030	1042	1052	rBV	109046	257161	26.07%	5.075%
5	8.622	1124	1132	1145	rBV	372459	737886	74.81%	14.561%
6	10.115	1369	1377	1386	rBV	578837	986383	100.00%	19.465%
7	10.512	1435	1442	1456	rVB	52910	100548	10.19%	1.984%
8	10.884	1498	1503	1512	rBV	10612	19038	1.93%	0.376%
9	11.420	1584	1591	1604	rBV	513727	848917	86.06%	16.752%
10	12.414	1747	1754	1765	rBV2	392586	640465	64.93%	12.639%
11	13.353	1902	1908	1917	rVB	373217	595680	60.39%	11.755%
12	13.895	1990	1997	2002	rVB	8385	13200	1.34%	0.260%

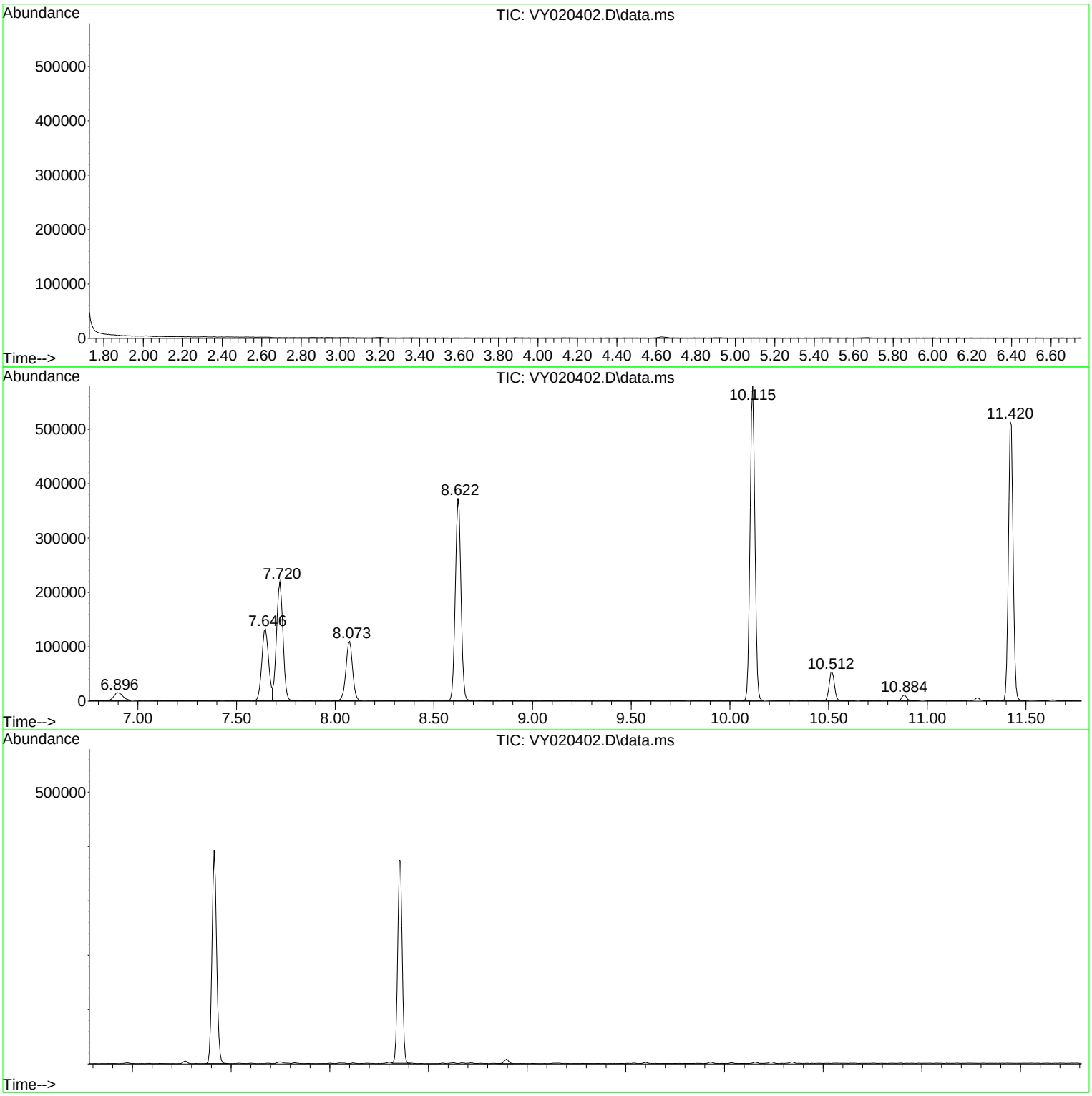
Sum of corrected areas: 5067471

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084964.D
Acq On : 20 Nov 2024 13:20
Operator : JC\MD
Sample : VN1120WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBS02

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	150630	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	253557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	229692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	102086	46.923	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.840%		
35) Dibromofluoromethane	8.165	113	82888	48.295	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.600%		
50) Toluene-d8	10.565	98	283802	44.890	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.780%		
62) 4-Bromofluorobenzene	12.847	95	113847	48.183	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.360%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	35618	20.569	ug/l	97
3) Chloromethane	2.359	50	39396	17.764	ug/l	96
4) Vinyl Chloride	2.506	62	35932	19.293	ug/l	94
5) Bromomethane	2.901	94	19858	20.124	ug/l	91
6) Chloroethane	3.071	64	23127	19.201	ug/l	98
7) Trichlorofluoromethane	3.465	101	60800	19.818	ug/l	99
8) Diethyl Ether	3.953	74	23262	21.494	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.353	101	34019	19.624	ug/l	98
10) Methyl Iodide	4.577	142	48587	20.971	ug/l	98
11) Tert butyl alcohol	5.542	59	33696	117.336	ug/l	98
12) 1,1-Dichloroethene	4.330	96	32651	19.034	ug/l	94
13) Acrolein	4.171	56	31534	110.120	ug/l	97
14) Allyl chloride	5.012	41	54299	19.519	ug/l	94
15) Acrylonitrile	5.712	53	96254	115.780	ug/l	98
16) Acetone	4.430	43	72399	113.647	ug/l	96
17) Carbon Disulfide	4.700	76	93961	17.787	ug/l	98
18) Methyl Acetate	5.024	43	50778	19.700	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	114824	21.839	ug/l	98
20) Methylene Chloride	5.265	84	38672	20.210	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	33847	19.216	ug/l	95
22) Diisopropyl ether	6.671	45	116859	21.141	ug/l	97
23) Vinyl Acetate	6.600	43	432838	113.548	ug/l	98
24) 1,1-Dichloroethane	6.559	63	65568	19.757	ug/l	97
25) 2-Butanone	7.483	43	124217	122.382	ug/l	97
26) 2,2-Dichloropropane	7.483	77	58388	20.214	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	41367	20.114	ug/l	97
28) Bromochloromethane	7.806	49	28846	21.817	ug/l	90
29) Tetrahydrofuran	7.841	42	81330	120.782	ug/l	96
30) Chloroform	7.965	83	69698	20.634	ug/l	93
31) Cyclohexane	8.247	56	56449	18.794	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	61504	20.005	ug/l	97
36) 1,1-Dichloropropene	8.365	75	45714	19.205	ug/l	98
37) Ethyl Acetate	7.559	43	48545	22.479	ug/l	95
38) Carbon Tetrachloride	8.359	117	55251	20.767	ug/l	95
39) Methylcyclohexane	9.600	83	49871	20.595	ug/l	97
40) Benzene	8.600	78	151055	19.761	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084964.D
Acq On : 20 Nov 2024 13:20
Operator : JC\MD
Sample : VN1120WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	28047	24.151	ug/l		98
42) 1,2-Dichloroethane	8.665	62	52979	21.400	ug/l		99
43) Isopropyl Acetate	8.688	43	89614	21.919	ug/l		99
44) Trichloroethene	9.347	130	34468	19.552	ug/l		97
45) 1,2-Dichloropropane	9.618	63	37090	20.684	ug/l		98
46) Dibromomethane	9.706	93	26646	21.059	ug/l		96
47) Bromodichloromethane	9.888	83	53986	20.241	ug/l	#	99
48) Methyl methacrylate	9.682	41	39511	23.508	ug/l		98
49) 1,4-Dioxane	9.694	88	13647	458.199	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.447	43	257532	125.092	ug/l		99
52) Toluene	10.629	92	92522	20.695	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	53494	19.376	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	58965	20.179	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	36801	21.853	ug/l		95
56) Ethyl methacrylate	10.871	69	57695	23.685	ug/l		96
57) 1,3-Dichloropropane	11.159	76	61447	21.260	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	115920	101.699	ug/l		95
59) 2-Hexanone	11.194	43	190538	127.150	ug/l		99
60) Dibromochloromethane	11.359	129	41243	21.489	ug/l		99
61) 1,2-Dibromoethane	11.471	107	36672	21.265	ug/l		98
64) Tetrachloroethene	11.100	164	30097	19.699	ug/l		93
65) Chlorobenzene	11.888	112	99409	19.345	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	35112	19.644	ug/l		98
67) Ethyl Benzene	11.965	91	168037	19.590	ug/l		99
68) m/p-Xylenes	12.071	106	127695	39.323	ug/l		99
69) o-Xylene	12.400	106	62946	20.721	ug/l		99
70) Styrene	12.412	104	106834	20.160	ug/l		99
71) Bromoform	12.582	173	26831	19.950	ug/l	#	95
73) Isopropylbenzene	12.694	105	155280	19.290	ug/l		99
74) N-amyl acetate	12.494	43	72549	21.175	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.941	83	54852	20.414	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	46699m	20.337	ug/l		
77) Bromobenzene	12.976	156	40419	18.677	ug/l		96
78) n-propylbenzene	13.035	91	178621	18.935	ug/l		98
79) 2-Chlorotoluene	13.123	91	117308	19.032	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	132819	19.907	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18261m	18.867	ug/l		
82) 4-Chlorotoluene	13.218	91	119090	18.359	ug/l		98
83) tert-Butylbenzene	13.435	119	112021	20.287	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	138540	20.119	ug/l		98
85) sec-Butylbenzene	13.618	105	149002	19.103	ug/l		100
86) p-Isopropyltoluene	13.729	119	123982	19.382	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	73769	17.467	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	72532	18.009	ug/l		99
89) n-Butylbenzene	14.059	91	102739	17.170	ug/l		99
90) Hexachloroethane	14.335	117	25263	17.709	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	73040	17.997	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11216	20.605	ug/l		95
93) 1,2,4-Trichlorobenzene	15.394	180	35527	15.994	ug/l		98
94) Hexachlorobutadiene	15.500	225	16423	16.836	ug/l		96
95) Naphthalene	15.641	128	117662	17.697	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	35531	16.478	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084964.D
Acq On : 20 Nov 2024 13:20
Operator : JC\MD
Sample : VN1120WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

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

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

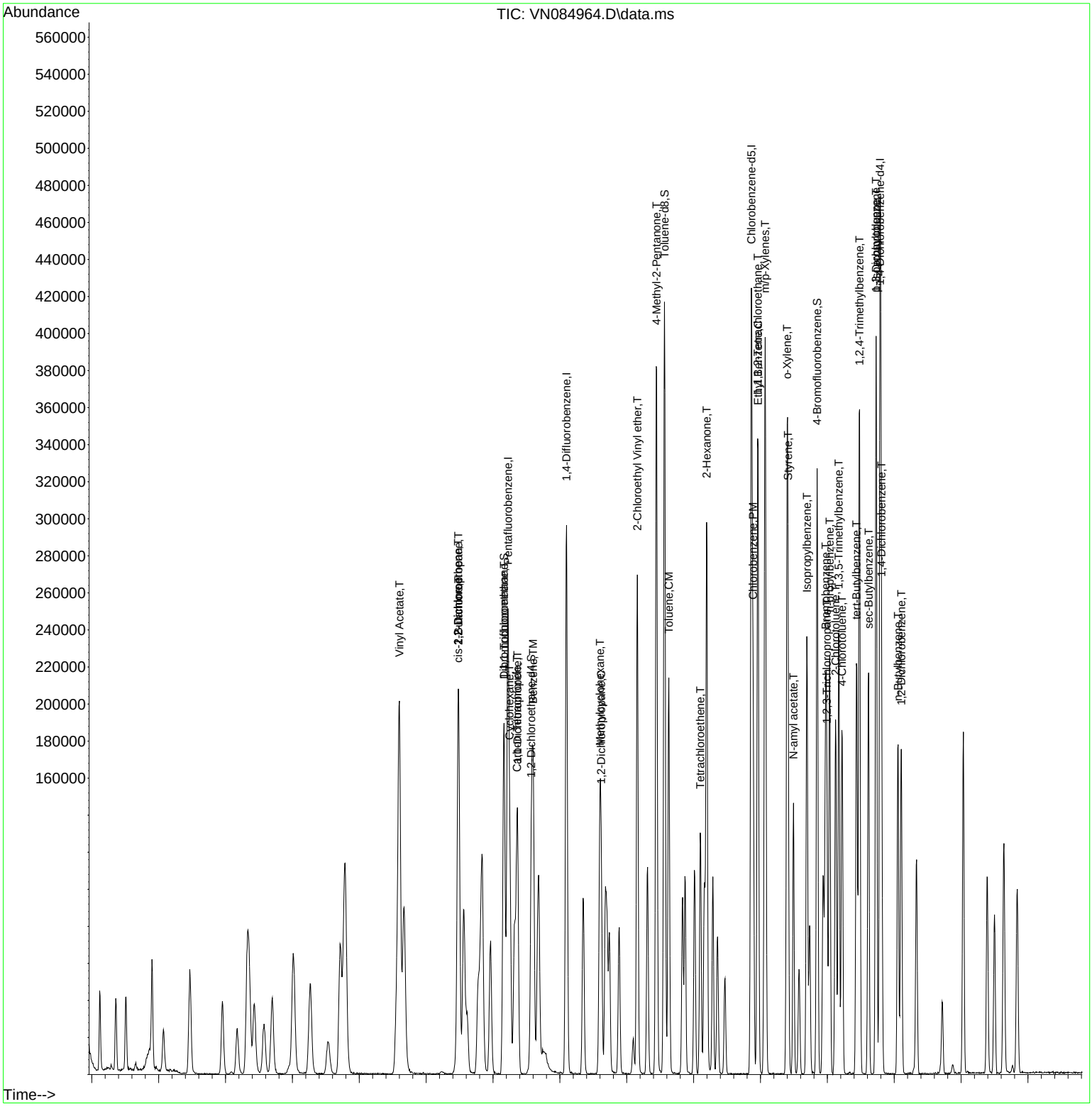
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Data File : VN084964.D
Acq On : 20 Nov 2024 13:20
Operator : JC\MD
Sample : VN1120WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBS01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	180247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	303523	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	255135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	121310	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	95330	46.035	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 92.060%			
35) Dibromofluoromethane	7.640	113	85002	43.674	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 87.340%			
50) Toluene-d8	10.109	98	332344	43.348	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 86.700%			
62) 4-Bromofluorobenzene	12.408	95	110943	45.014	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 90.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38946	22.260	ug/l	97
3) Chloromethane	2.074	50	40357	14.316	ug/l	96
4) Vinyl Chloride	2.208	62	37886	15.784	ug/l	98
5) Bromomethane	2.604	94	20743	17.304	ug/l	100
6) Chloroethane	2.739	64	23745	16.958	ug/l	98
7) Trichlorofluoromethane	3.068	101	66071	19.809	ug/l	98
8) Diethyl Ether	3.458	74	19799	18.813	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.824	101	36345	18.297	ug/l	100
10) Methyl Iodide	4.013	142	47517	17.859	ug/l	95
11) Tert butyl alcohol	4.872	59	14695	90.913	ug/l	95
12) 1,1-Dichloroethene	3.799	96	35988	18.303	ug/l	98
13) Acrolein	3.659	56	18523	144.453	ug/l	99
14) Allyl chloride	4.391	41	68363	17.979	ug/l	95
15) Acrylonitrile	5.067	53	43974	94.525	ug/l	99
16) Acetone	3.879	43	46611	93.891	ug/l	94
17) Carbon Disulfide	4.110	76	114597	17.299	ug/l	99
18) Methyl Acetate	4.391	43	20960	18.113	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	98615	19.307	ug/l	97
20) Methylene Chloride	4.622	84	39953	19.004	ug/l	96
21) trans-1,2-Dichloroethene	5.128	96	39135	17.920	ug/l	94
22) Diisopropyl ether	6.031	45	137248	18.317	ug/l	98
23) Vinyl Acetate	5.970	43	388407	92.756	ug/l	99
24) 1,1-Dichloroethane	5.927	63	78285	18.507	ug/l	96
25) 2-Butanone	6.902	43	63764	99.770	ug/l	98
26) 2,2-Dichloropropane	6.896	77	69511	19.881	ug/l	98
27) cis-1,2-Dichloroethene	6.902	96	45476	18.906	ug/l	96
28) Bromochloromethane	7.256	49	32189	18.080	ug/l	99
29) Tetrahydrofuran	7.268	42	37676	98.633	ug/l	98
30) Chloroform	7.427	83	77412	18.951	ug/l	98
31) Cyclohexane	7.707	56	72133	18.686	ug/l #	95
32) 1,1,1-Trichloroethane	7.622	97	72285	20.154	ug/l	99
36) 1,1-Dichloropropene	7.841	75	57076	19.200	ug/l	98
37) Ethyl Acetate	6.994	43	27101	19.901	ug/l	99
38) Carbon Tetrachloride	7.823	117	65629	21.145	ug/l	98
39) Methylcyclohexane	9.115	83	69833	18.771	ug/l	97
40) Benzene	8.085	78	171136	19.645	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	13680	17.656	ug/l		96
42) 1,2-Dichloroethane	8.164	62	48620	20.677	ug/l		98
43) Isopropyl Acetate	8.201	43	53412	20.169	ug/l	#	87
44) Trichloroethene	8.865	130	39835	19.299	ug/l		97
45) 1,2-Dichloropropane	9.146	63	39715	19.108	ug/l		99
46) Dibromomethane	9.237	93	20413	19.162	ug/l		97
47) Bromodichloromethane	9.426	83	58594	19.924	ug/l		98
48) Methyl methacrylate	9.225	41	24591	19.422	ug/l		95
49) 1,4-Dioxane	9.231	88	4188	382.119	ug/l	#	93
51) 4-Methyl-2-Pentanone	9.999	43	133986	99.697	ug/l		99
52) Toluene	10.176	92	102921	19.329	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	53363	19.189	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	63347	19.899	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	26820	18.966	ug/l		100
56) Ethyl methacrylate	10.438	69	39987	18.829	ug/l		98
57) 1,3-Dichloropropane	10.719	76	50296	19.791	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	100485	99.789	ug/l		99
59) 2-Hexanone	10.761	43	97031	101.962	ug/l		100
60) Dibromochloromethane	10.914	129	36034	19.770	ug/l		98
61) 1,2-Dibromoethane	11.018	107	24532	18.722	ug/l		100
64) Tetrachloroethene	10.652	164	34140	18.563	ug/l		96
65) Chlorobenzene	11.444	112	105916	18.619	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	37863	19.924	ug/l		97
67) Ethyl Benzene	11.524	91	199885	19.046	ug/l		100
68) m/p-Xylenes	11.633	106	148141	39.189	ug/l		98
69) o-Xylene	11.956	106	70006	19.525	ug/l		98
70) Styrene	11.975	104	117883	19.789	ug/l		99
71) Bromoform	12.133	173	20512	20.711	ug/l	#	98
73) Isopropylbenzene	12.255	105	189065	18.398	ug/l		100
74) N-amyl acetate	12.072	43	45544	18.339	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	30208	18.188	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	21691m	18.971	ug/l		
77) Bromobenzene	12.536	156	39097	18.159	ug/l		95
78) n-propylbenzene	12.597	91	228254	18.508	ug/l		100
79) 2-Chlorotoluene	12.682	91	128274	18.090	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	153707	18.507	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	10525	18.037	ug/l		95
82) 4-Chlorotoluene	12.779	91	130788	17.871	ug/l		98
83) tert-Butylbenzene	13.005	119	134252	18.318	ug/l		96
84) 1,2,4-Trimethylbenzene	13.048	105	150805	18.315	ug/l		99
85) sec-Butylbenzene	13.182	105	197873	17.126	ug/l		100
86) p-Isopropyltoluene	13.298	119	162886	18.233	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	77470	17.796	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	76598	18.416	ug/l		98
89) n-Butylbenzene	13.621	91	153757	17.973	ug/l		99
90) Hexachloroethane	13.883	117	31013	17.986	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	67451	18.596	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4936	18.112	ug/l		95
93) 1,2,4-Trichlorobenzene	14.925	180	39202	17.875	ug/l		99
94) Hexachlorobutadiene	15.029	225	24790	18.518	ug/l		98
95) Naphthalene	15.151	128	69552	18.415	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	32957	17.576	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

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

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

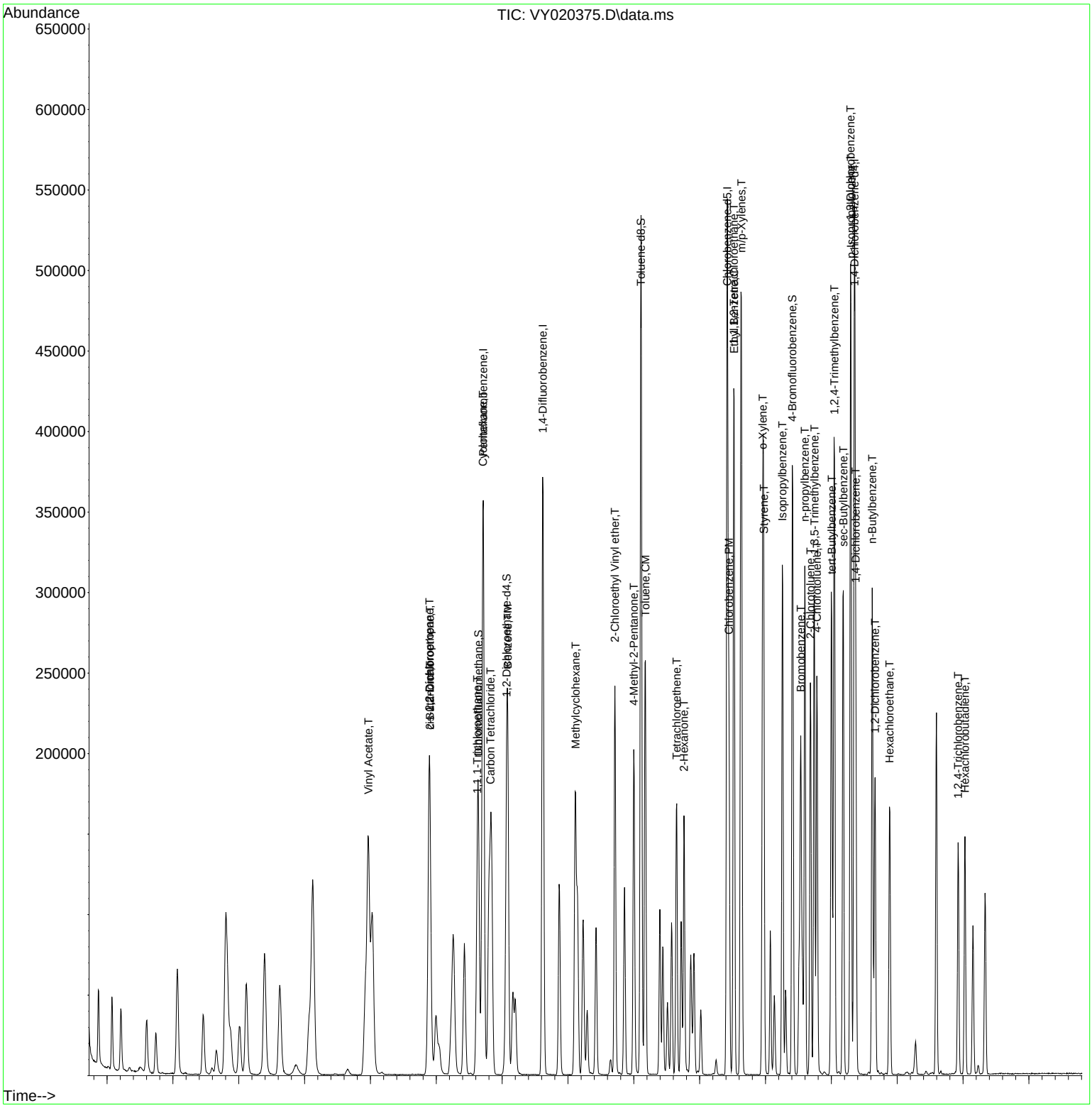
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Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	182116	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	298132	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	246608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	113255	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	111076	53.088	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.180%			
35) Dibromofluoromethane	7.640	113	101764	53.232	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.460%			
50) Toluene-d8	10.109	98	398203	52.878	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.760%			
62) 4-Bromofluorobenzene	12.408	95	132161	54.593	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 109.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	44685	25.278	ug/l	99
3) Chloromethane	2.074	50	43774	15.743	ug/l	95
4) Vinyl Chloride	2.214	62	42648	17.586	ug/l	96
5) Bromomethane	2.604	94	24646	20.349	ug/l	98
6) Chloroethane	2.745	64	25674	18.148	ug/l	97
7) Trichlorofluoromethane	3.068	101	76847	22.803	ug/l	100
8) Diethyl Ether	3.458	74	21142	19.883	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.830	101	43231	21.540	ug/l	99
10) Methyl Iodide	4.013	142	52717	19.610	ug/l	94
11) Tert butyl alcohol	4.872	59	14325	87.581	ug/l	100
12) 1,1-Dichloroethene	3.799	96	41271	20.774	ug/l	99
13) Acrolein	3.665	56	16167	124.786	ug/l	99
14) Allyl chloride	4.397	41	72760	18.940	ug/l	95
15) Acrylonitrile	5.067	53	45278	96.329	ug/l	99
16) Acetone	3.879	43	47644	94.987	ug/l	92
17) Carbon Disulfide	4.116	76	130774	19.539	ug/l	100
18) Methyl Acetate	4.391	43	20951	17.919	ug/l	100
19) Methyl tert-butyl Ether	5.128	73	105998	20.539	ug/l	96
20) Methylene Chloride	4.628	84	43466	20.463	ug/l	95
21) trans-1,2-Dichloroethene	5.128	96	45023	20.405	ug/l	94
22) Diisopropyl ether	6.025	45	143258	18.922	ug/l	94
23) Vinyl Acetate	5.970	43	397626	93.983	ug/l	100
24) 1,1-Dichloroethane	5.927	63	85352	19.970	ug/l	99
25) 2-Butanone	6.909	43	65000	100.660	ug/l	99
26) 2,2-Dichloropropane	6.896	77	77236	21.864	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	52238	21.494	ug/l	98
28) Bromochloromethane	7.256	49	32981	18.335	ug/l	98
29) Tetrahydrofuran	7.268	42	37344	96.761	ug/l	99
30) Chloroform	7.433	83	87034	21.088	ug/l	99
31) Cyclohexane	7.713	56	80472	20.632	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	82882	22.871	ug/l	98
36) 1,1-Dichloropropene	7.841	75	63439	21.727	ug/l	99
37) Ethyl Acetate	6.994	43	26794	20.032	ug/l	97
38) Carbon Tetrachloride	7.823	117	75608	24.801	ug/l	98
39) Methylcyclohexane	9.115	83	82700	22.631	ug/l	99
40) Benzene	8.085	78	192195	22.461	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	15027	19.745	ug/l	98
42) 1,2-Dichloroethane	8.164	62	52455	22.711	ug/l	100
43) Isopropyl Acetate	8.201	43	53749	20.663	ug/l	96
44) Trichloroethene	8.872	130	46129	22.753	ug/l	98
45) 1,2-Dichloropropane	9.146	63	44684	21.887	ug/l	99
46) Dibromomethane	9.237	93	21891	20.921	ug/l	97
47) Bromodichloromethane	9.426	83	63732	22.063	ug/l	98
48) Methyl methacrylate	9.225	41	25223	20.282	ug/l	97
49) 1,4-Dioxane	9.231	88	4426	411.137	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	134967	102.243	ug/l	99
52) Toluene	10.176	92	117588	22.483	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	57948	21.214	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	69407	22.197	ug/l	97
55) 1,1,2-Trichloroethane	10.579	97	30154	21.710	ug/l	96
56) Ethyl methacrylate	10.444	69	41769	20.024	ug/l	94
57) 1,3-Dichloropropane	10.719	76	52320	20.960	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	99738	100.839	ug/l	100
59) 2-Hexanone	10.761	43	96861	103.624	ug/l	97
60) Dibromochloromethane	10.914	129	40445	22.591	ug/l	99
61) 1,2-Dibromoethane	11.018	107	27281	21.196	ug/l	99
64) Tetrachloroethene	10.652	164	40490	22.777	ug/l	95
65) Chlorobenzene	11.444	112	122560	22.290	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	41629	22.663	ug/l	98
67) Ethyl Benzene	11.524	91	228903	22.565	ug/l	100
68) m/p-Xylenes	11.633	106	166365	45.531	ug/l	98
69) o-Xylene	11.956	106	78340	22.605	ug/l	96
70) Styrene	11.975	104	132399	22.994	ug/l	99
71) Bromoform	12.133	173	22552	23.558	ug/l	100
73) Isopropylbenzene	12.261	105	219664	22.896	ug/l	100
74) N-amyl acetate	12.072	43	43939	18.952	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.511	83	32756	21.125	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	22996m	21.543	ug/l	
77) Bromobenzene	12.536	156	43708	21.745	ug/l	98
78) n-propylbenzene	12.597	91	253646	22.029	ug/l	99
79) 2-Chlorotoluene	12.682	91	144796	21.872	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	176320	22.740	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	11280	20.706	ug/l	98
82) 4-Chlorotoluene	12.779	91	146063	21.378	ug/l	99
83) tert-Butylbenzene	13.005	119	154600	22.594	ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	174090	22.647	ug/l	98
85) sec-Butylbenzene	13.182	105	221656	20.548	ug/l	100
86) p-Isopropyltoluene	13.298	119	184448	22.115	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	87940	21.637	ug/l	100
88) 1,4-Dichlorobenzene	13.377	146	87853	22.624	ug/l	99
89) n-Butylbenzene	13.621	91	171542	21.478	ug/l	99
90) Hexachloroethane	13.883	117	34288	21.300	ug/l	94
91) 1,2-Dichlorobenzene	13.663	146	75430	22.275	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5026	19.754	ug/l	95
93) 1,2,4-Trichlorobenzene	14.931	180	43522	21.257	ug/l	99
94) Hexachlorobutadiene	15.029	225	27642	22.118	ug/l	99
95) Naphthalene	15.151	128	72288	20.501	ug/l	99
96) 1,2,3-Trichlorobenzene	15.340	180	36036	20.585	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

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

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

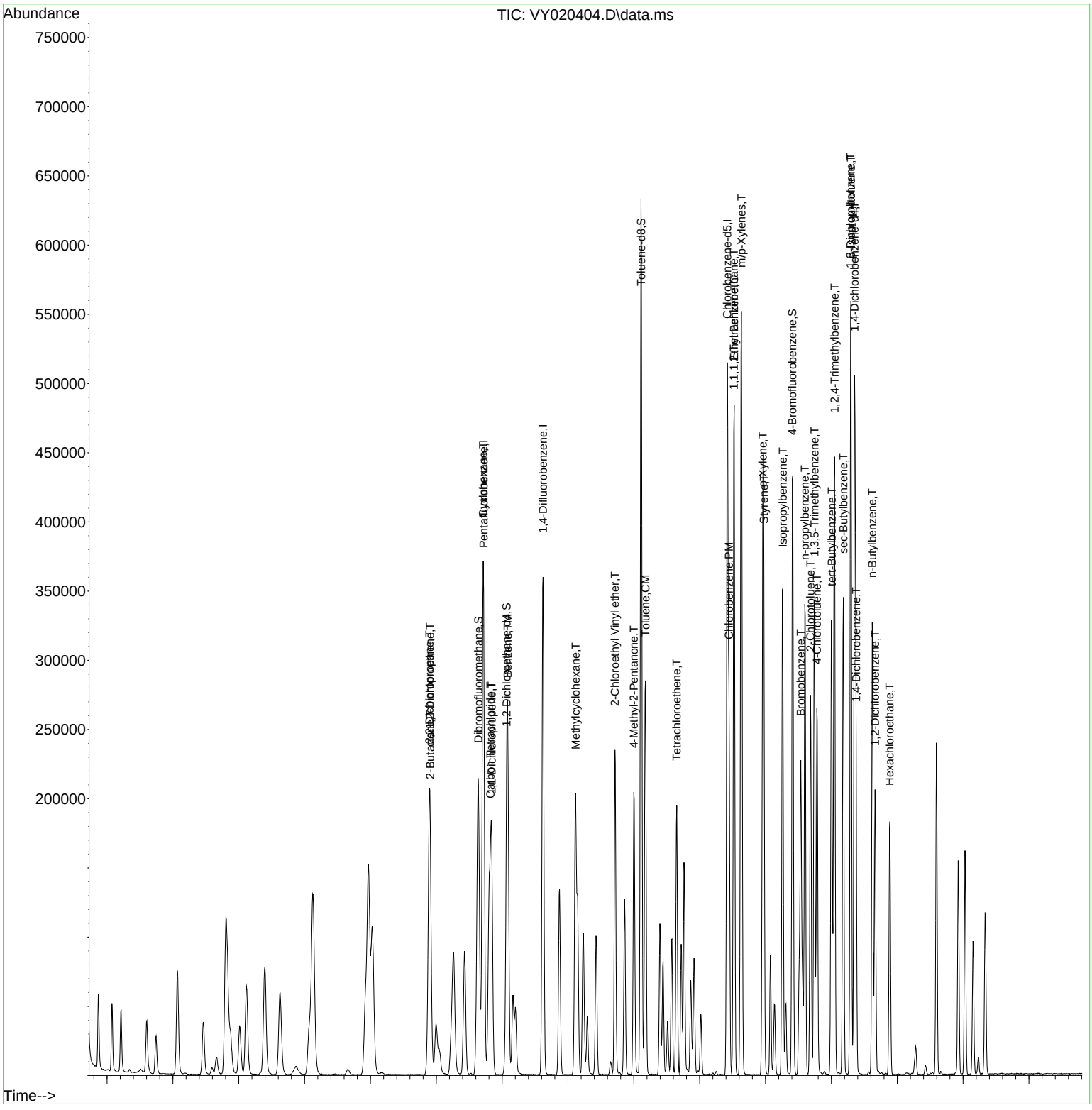
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084982.D
Acq On : 20 Nov 2024 20:34
Operator : JC\MD
Sample : VN1120WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 21 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBSD02

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	152907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	266547	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	231842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114230	51.723	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.440%			
35) Dibromofluoromethane	8.159	113	91248	50.575	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	10.565	98	313909	47.232	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.460%			
62) 4-Bromofluorobenzene	12.847	95	125548	50.545	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34562	19.662	ug/l	99
3) Chloromethane	2.359	50	37667	16.577	ug/l	98
4) Vinyl Chloride	2.512	62	35774	18.922	ug/l	91
5) Bromomethane	2.900	94	19214	19.181	ug/l	98
6) Chloroethane	3.077	64	22681	18.502	ug/l	94
7) Trichlorofluoromethane	3.471	101	60720	19.497	ug/l	94
8) Diethyl Ether	3.953	74	20654	18.800	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	32772	18.623	ug/l	95
10) Methyl Iodide	4.583	142	44856	19.072	ug/l	99
11) Tert butyl alcohol	5.536	59	30573	104.876	ug/l	99
12) 1,1-Dichloroethene	4.330	96	31189	17.911	ug/l	98
13) Acrolein	4.171	56	25199	86.687	ug/l	98
14) Allyl chloride	5.018	41	51587	18.268	ug/l	94
15) Acrylonitrile	5.718	53	85328	101.109	ug/l	99
16) Acetone	4.430	43	71297	110.164	ug/l	97
17) Carbon Disulfide	4.700	76	89124	16.620	ug/l	97
18) Methyl Acetate	5.018	43	49465	18.730	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	101746	19.064	ug/l	96
20) Methylene Chloride	5.259	84	36933	19.014	ug/l	90
21) trans-1,2-Dichloroethene	5.783	96	32924	18.414	ug/l	98
22) Diisopropyl ether	6.665	45	109832	19.574	ug/l	97
23) Vinyl Acetate	6.600	43	390172	100.831	ug/l	100
24) 1,1-Dichloroethane	6.565	63	64019	19.003	ug/l	99
25) 2-Butanone	7.482	43	111299	108.022	ug/l	98
26) 2,2-Dichloropropane	7.482	77	51408	17.533	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	38034	18.218	ug/l	98
28) Bromochloromethane	7.812	49	27051	20.155	ug/l	96
29) Tetrahydrofuran	7.835	42	70167	102.653	ug/l	94
30) Chloroform	7.959	83	66479	19.388	ug/l	99
31) Cyclohexane	8.253	56	54537	17.887	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	60845	19.496	ug/l	95
36) 1,1-Dichloropropene	8.365	75	43515	17.391	ug/l	98
37) Ethyl Acetate	7.559	43	45238	19.927	ug/l	99
38) Carbon Tetrachloride	8.359	117	54439	19.465	ug/l	93
39) Methylcyclohexane	9.600	83	44992	17.675	ug/l	98
40) Benzene	8.600	78	143811	17.896	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084982.D
Acq On : 20 Nov 2024 20:34
Operator : JC\MD
Sample : VN1120WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 21 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	25063	20.529 ug/l	99
42) 1,2-Dichloroethane	8.665	62	49509	19.024 ug/l	100
43) Isopropyl Acetate	8.694	43	171473	40.705 ug/l #	78
44) Trichloroethene	9.353	130	32132	17.338 ug/l	95
45) 1,2-Dichloropropane	9.618	63	34804	18.463 ug/l	99
46) Dibromomethane	9.706	93	24056	18.085 ug/l	95
47) Bromodichloromethane	9.888	83	51390	18.328 ug/l #	98
48) Methyl methacrylate	9.676	41	34485	19.518 ug/l	96
49) 1,4-Dioxane	9.700	88	12762	407.603 ug/l #	78
51) 4-Methyl-2-Pentanone	10.447	43	231343	106.895 ug/l	100
52) Toluene	10.629	92	87002	18.512 ug/l	97
53) t-1,3-Dichloropropene	10.835	75	48918	16.855 ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	54329	17.687 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	33918	19.159 ug/l	97
56) Ethyl methacrylate	10.871	69	50083	19.558 ug/l	97
57) 1,3-Dichloropropane	11.159	76	56421	18.570 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	111870	93.362 ug/l	99
59) 2-Hexanone	11.194	43	167822	106.534 ug/l	99
60) Dibromochloromethane	11.359	129	38433	19.049 ug/l	100
61) 1,2-Dibromoethane	11.465	107	32704	18.040 ug/l	99
64) Tetrachloroethene	11.100	164	27789	18.020 ug/l	96
65) Chlorobenzene	11.888	112	92090	17.755 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	33837	18.756 ug/l	98
67) Ethyl Benzene	11.965	91	156291	18.052 ug/l	98
68) m/p-Xylenes	12.070	106	120037	36.622 ug/l	100
69) o-Xylene	12.400	106	58460	19.066 ug/l	99
70) Styrene	12.412	104	95549	17.863 ug/l	99
71) Bromoform	12.582	173	25788	18.996 ug/l #	98
73) Isopropylbenzene	12.694	105	144330	17.209 ug/l	99
74) N-amyl acetate	12.494	43	65496	18.348 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	49697	17.753 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	42840m	17.907 ug/l	
77) Bromobenzene	12.982	156	36601	16.234 ug/l	96
78) n-propylbenzene	13.035	91	168306	17.125 ug/l	99
79) 2-Chlorotoluene	13.123	91	110671	17.234 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	122387	17.607 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	16717	16.578 ug/l	97
82) 4-Chlorotoluene	13.223	91	109045	16.135 ug/l	99
83) tert-Butylbenzene	13.441	119	105393	18.320 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	126386	17.617 ug/l	98
85) sec-Butylbenzene	13.617	105	136668	16.818 ug/l	100
86) p-Isopropyltoluene	13.729	119	115130	17.275 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	66030	15.007 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	67804	16.062 ug/l	99
89) n-Butylbenzene	14.053	91	90392	14.499 ug/l	97
90) Hexachloroethane	14.335	117	23701	15.947 ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	66831	15.806 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9980	17.598 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	30101	13.007 ug/l	99
94) Hexachlorobutadiene	15.506	225	14187	13.959 ug/l	98
95) Naphthalene	15.641	128	95370	13.768 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	29583	13.168 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
Data File : VN084982.D
Acq On : 20 Nov 2024 20:34
Operator : JC\MD
Sample : VN1120WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 21 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024

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

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

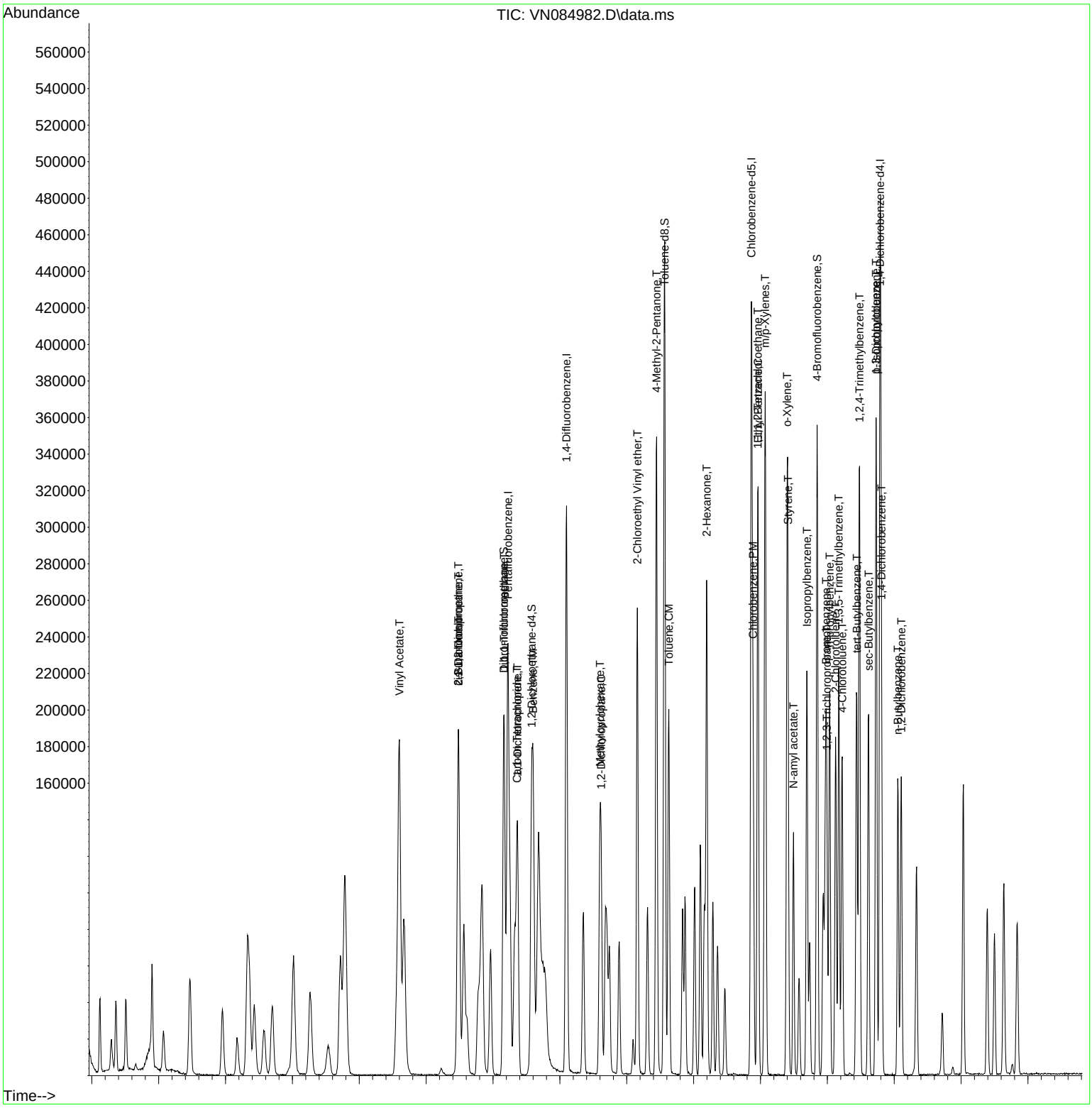
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Data File : VN084982.D
Acq On : 20 Nov 2024 20:34
Operator : JC\MD
Sample : VN1120WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 21 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1120WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024
Supervised By :Mahesh Dadoda 11/21/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020376.D
Acq On : 21 Nov 2024 11:02
Operator : SY/MD
Sample : VY1121SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 13:56:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBSD01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.713	168	168644	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	280583	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.420	117	238249	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	112550	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.067	65	109149	56.334 ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.660%		
35) Dibromofluoromethane	7.640	113	95451	53.053 ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.100%		
50) Toluene-d8	10.109	98	374478	52.838 ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.680%		
62) 4-Bromofluorobenzene	12.407	95	125801	55.216 ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 110.440%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.867	85	38936	23.786 ug/l	99
3) Chloromethane	2.074	50	38975	14.941 ug/l	99
4) Vinyl Chloride	2.208	62	37620	16.752 ug/l	95
5) Bromomethane	2.598	94	21438	19.114 ug/l	91
6) Chloroethane	2.739	64	23307	17.791 ug/l	97
7) Trichlorofluoromethane	3.068	101	65889	21.113 ug/l	99
8) Diethyl Ether	3.458	74	20464	20.783 ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	35996	19.368 ug/l	97
10) Methyl Iodide	4.007	142	47884	19.235 ug/l	91
11) Tert butyl alcohol	4.872	59	14135	93.578 ug/l	98
12) 1,1-Dichloroethene	3.793	96	36398	19.785 ug/l	98
13) Acrolein	3.659	56	16878	140.680 ug/l	97
14) Allyl chloride	4.385	41	68872	19.360 ug/l	95
15) Acrylonitrile	5.067	53	43291	99.459 ug/l	97
16) Acetone	3.872	43	44344	95.470 ug/l	100
17) Carbon Disulfide	4.110	76	117350	18.934 ug/l	99
18) Methyl Acetate	4.391	43	20544	18.975 ug/l	96
19) Methyl tert-butyl Ether	5.122	73	100468	21.023 ug/l	99
20) Methylene Chloride	4.622	84	40132	20.403 ug/l	96
21) trans-1,2-Dichloroethene	5.122	96	39892	19.523 ug/l	86
22) Diisopropyl ether	6.024	45	141471	20.179 ug/l	98
23) Vinyl Acetate	5.964	43	393377	100.406 ug/l	99
24) 1,1-Dichloroethane	5.921	63	78372	19.802 ug/l	99
25) 2-Butanone	6.902	43	63648	106.440 ug/l	97
26) 2,2-Dichloropropane	6.890	77	69713	21.311 ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	46613	20.712 ug/l	97
28) Bromochloromethane	7.250	49	29738	17.853 ug/l	99
29) Tetrahydrofuran	7.268	42	37235	104.185 ug/l	99
30) Chloroform	7.427	83	79341	20.760 ug/l	98
31) Cyclohexane	7.707	56	70124	19.415 ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	73140	21.795 ug/l	99
36) 1,1-Dichloropropene	7.835	75	57487	20.920 ug/l	99
37) Ethyl Acetate	6.988	43	26683	21.196 ug/l	99
38) Carbon Tetrachloride	7.817	117	66429	23.153 ug/l	92
39) Methylcyclohexane	9.109	83	70241	20.424 ug/l	97
40) Benzene	8.085	78	176015	21.857 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020376.D
Acq On : 21 Nov 2024 11:02
Operator : SY/MD
Sample : VY1121SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 13:56:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	14488	20.227	ug/l		96
42) 1,2-Dichloroethane	8.158	62	50126	23.060	ug/l		99
43) Isopropyl Acetate	8.201	43	53927	22.028	ug/l	#	86
44) Trichloroethene	8.865	130	40165	21.050	ug/l		96
45) 1,2-Dichloropropane	9.146	63	40575	21.118	ug/l		98
46) Dibromomethane	9.231	93	21203	21.530	ug/l		99
47) Bromodichloromethane	9.420	83	58718	21.599	ug/l		97
48) Methyl methacrylate	9.225	41	25163	21.499	ug/l		96
49) 1,4-Dioxane	9.231	88	4576	451.656	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	134437	108.211	ug/l		98
52) Toluene	10.170	92	107310	21.801	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	54196	21.082	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	64670	21.975	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	26999	20.654	ug/l		98
56) Ethyl methacrylate	10.438	69	40228	20.492	ug/l		97
57) 1,3-Dichloropropane	10.719	76	51078	21.742	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	93264	100.191	ug/l		99
59) 2-Hexanone	10.761	43	95820	108.921	ug/l		99
60) Dibromochloromethane	10.914	129	37704	22.377	ug/l		100
61) 1,2-Dibromoethane	11.018	107	25357	20.933	ug/l		99
64) Tetrachloroethene	10.646	164	35871	20.887	ug/l		93
65) Chlorobenzene	11.444	112	111103	20.915	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	37985	21.405	ug/l		98
67) Ethyl Benzene	11.517	91	207216	21.144	ug/l		99
68) m/p-Xylenes	11.627	106	151238	42.844	ug/l		97
69) o-Xylene	11.956	106	71860	21.463	ug/l		97
70) Styrene	11.969	104	122933	22.099	ug/l		99
71) Bromoform	12.133	173	20516	22.183	ug/l	#	99
73) Isopropylbenzene	12.255	105	194695	20.421	ug/l		100
74) N-amyl acetate	12.072	43	47073	20.430	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	30417	19.740	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	20234m	19.074	ug/l		
77) Bromobenzene	12.536	156	41494	20.772	ug/l		98
78) n-propylbenzene	12.596	91	234844	20.524	ug/l		100
79) 2-Chlorotoluene	12.682	91	133978	20.364	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	159056	20.642	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	11345	20.956	ug/l		96
82) 4-Chlorotoluene	12.779	91	137917	20.312	ug/l		98
83) tert-Butylbenzene	12.999	119	139104	20.457	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	157416	20.606	ug/l		100
85) sec-Butylbenzene	13.176	105	205536	19.173	ug/l		99
86) p-Isopropyltoluene	13.291	119	168630	20.345	ug/l		99
87) 1,3-Dichlorobenzene	13.291	146	80241	19.867	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	78947	20.458	ug/l		98
89) n-Butylbenzene	13.621	91	157920	19.896	ug/l		99
90) Hexachloroethane	13.883	117	31925	19.956	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	69870	20.763	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5113	20.221	ug/l		91
93) 1,2,4-Trichlorobenzene	14.925	180	40599	19.953	ug/l		99
94) Hexachlorobutadiene	15.029	225	25677	20.674	ug/l		98
95) Naphthalene	15.151	128	71167	20.309	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	33813	19.436	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020376.D
Acq On : 21 Nov 2024 11:02
Operator : SY/MD
Sample : VY1121SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 13:56:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

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

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

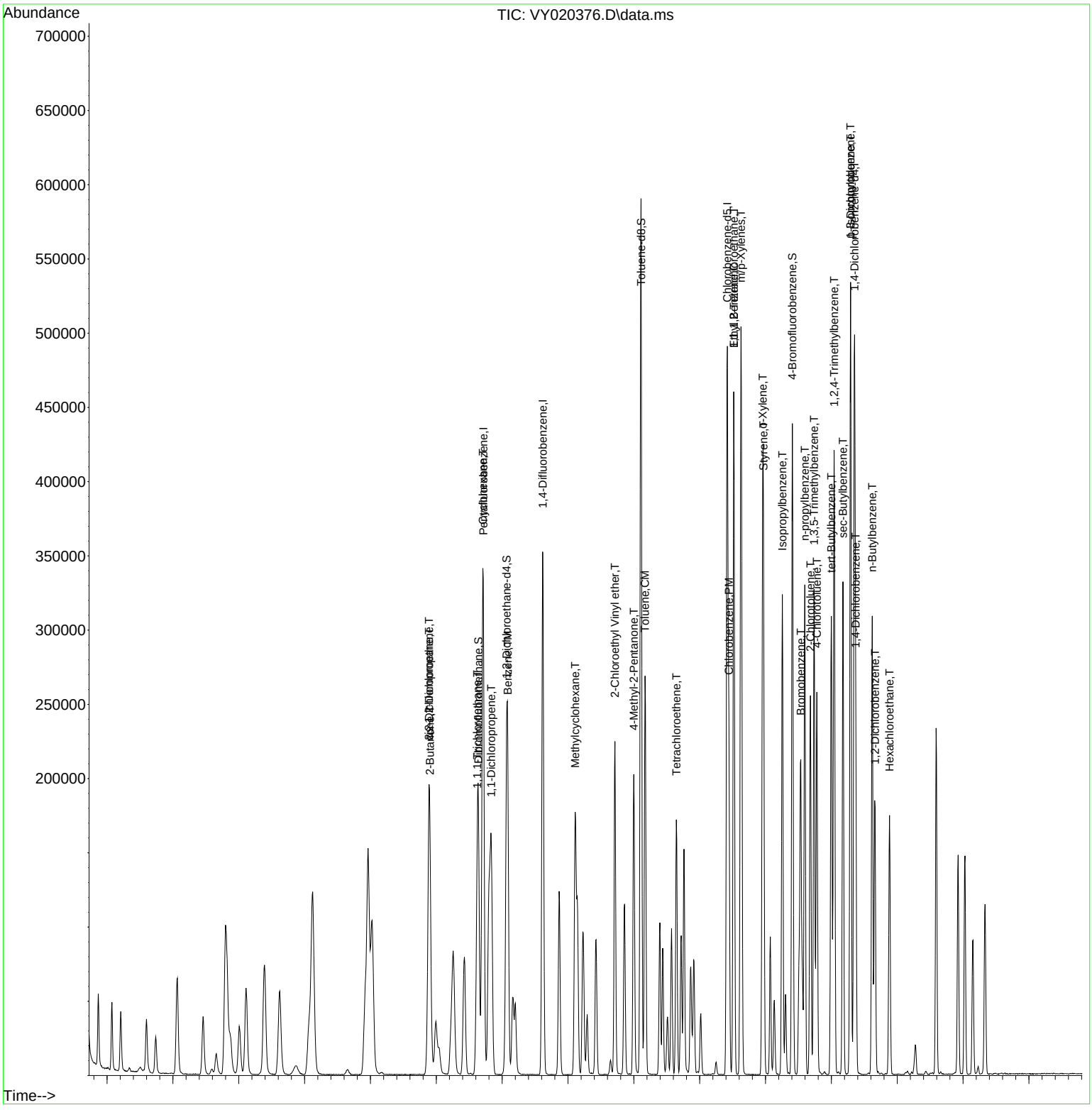
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020376.D
Acq On : 21 Nov 2024 11:02
Operator : SY/MD
Sample : VY1121SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 13:56:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	VN112024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084960.D	1,2,3-Trichloropropane	SAM	11/21/2024 6:43:26 AM	MMDadoda	11/21/2024 6:45:22 AM	Peak Integrated by Software
VN1120WBS02	VN084964.D	1,2,3-Trichloropropane	SAM	11/21/2024 6:43:30 AM	MMDadoda	11/21/2024 6:45:25 AM	Peak Integrated by Software
VN1120WBS02	VN084964.D	trans-1,4-Dichloro-2-but ene	SAM	11/21/2024 6:43:30 AM	MMDadoda	11/21/2024 6:45:25 AM	Peak Integrated by Software
VN1120WBSD0 2	VN084982.D	1,2,3-Trichloropropane	SAM	11/21/2024 6:43:52 AM	MMDadoda	11/21/2024 6:46:11 AM	Peak Integrated by Software
VSTDCCC050	VN084985.D	1,2,3-Trichloropropane	SAM	11/21/2024 6:43:54 AM	MMDadoda	11/21/2024 6:46:13 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY111924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020338.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:52 AM	SAM	11/25/2024 5:45:24 AM	Peak Integrated by Software
VSTDICC005	VY020338.D	Tert butyl alcohol	Romaben	11/20/2024 9:16:52 AM	SAM	11/25/2024 5:45:24 AM	Peak Integrated by Software
VSTDICC010	VY020339.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:57 AM	MMDadoda	11/20/2024 1:00:48 PM	Peak Integrated by Software
VSTDICC020	VY020340.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:07 AM	MMDadoda	11/20/2024 1:00:52 PM	Peak Integrated by Software
VSTDICCC050	VY020341.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:18:09 AM	MMDadoda	11/20/2024 1:00:53 PM	Peak Integrated by Software
VSTDICC100	VY020342.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:14 AM	MMDadoda	11/20/2024 1:00:55 PM	Peak Integrated by Software
VSTDICC150	VY020343.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:19 AM	MMDadoda	11/20/2024 1:00:56 PM	Peak Integrated by Software
VSTDICV050	VY020345.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:24 AM	SAM	11/25/2024 5:45:26 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY112124	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020373.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:06:56 AM	MMDadoda	11/22/2024 3:31:17 PM	Peak Integrated by Software
VY1121SBS01	VY020375.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:07:00 AM	MMDadoda	11/22/2024 3:31:16 PM	Peak Integrated by Software
VY1121SBSD01	VY020376.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:07:03 AM	MMDadoda	11/22/2024 3:31:18 PM	Peak Integrated by Software
VSTDCCC050	VY020399.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:11:47 AM	MMDadoda	11/22/2024 3:31:21 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY112224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020401.D	1,2,3-Trichloropropane	MMDadoda	11/25/2024 2:01:34 PM	SAM	11/25/2024 2:05:36 PM	Peak Integrated by Software
VY1122SBS02	VY020404.D	1,2,3-Trichloropropane	MMDadoda	11/26/2024 3:33:33 AM	SAM	11/26/2024 3:34:04 AM	Peak Integrated by Software
VSTDCCC050	VY020421.D	1,2,3-Trichloropropane	MMDadoda	11/25/2024 2:01:43 PM	SAM	11/25/2024 2:05:43 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112024

Review By	Semsettin Yesilyurt	Review On	11/21/2024 6:44:11 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2024 6:46:29 AM		
SubDirectory	VN112024	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131654
Initial Calibration Stds	
CCC	VP131655,VP131656
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084959.D	20 Nov 2024 09:51	JC\MD	Ok
2	VSTDCCC050	VN084960.D	20 Nov 2024 11:18	JC\MD	Ok,M
3	VN1120MBL01	VN084961.D	20 Nov 2024 11:57	JC\MD	Not Ok
4	VN1120WBL01	VN084962.D	20 Nov 2024 12:21	JC\MD	Ok
5	VN1120WBS01	VN084963.D	20 Nov 2024 12:45	JC\MD	Not Ok
6	VN1120WBS02	VN084964.D	20 Nov 2024 13:20	JC\MD	Ok,M
7	P4864-01	VN084965.D	20 Nov 2024 13:44	JC\MD	Ok
8	PB165108TB	VN084966.D	20 Nov 2024 14:08	JC\MD	Ok
9	PB165122TB	VN084967.D	20 Nov 2024 14:33	JC\MD	Ok
10	P4770-01	VN084968.D	20 Nov 2024 14:57	JC\MD	Not Ok
11	P4845-12	VN084969.D	20 Nov 2024 15:21	JC\MD	Ok
12	VN1120WBSD02	VN084970.D	20 Nov 2024 15:45	JC\MD	Not Ok
13	P4893-04	VN084971.D	20 Nov 2024 16:09	JC\MD	Ok
14	P4893-08	VN084972.D	20 Nov 2024 16:34	JC\MD	Ok
15	P4910-04	VN084973.D	20 Nov 2024 16:58	JC\MD	Ok,M
16	P4910-08	VN084974.D	20 Nov 2024 17:22	JC\MD	Ok,M
17	P4916-04	VN084975.D	20 Nov 2024 17:46	JC\MD	Ok,M
18	P4916-08	VN084976.D	20 Nov 2024 18:10	JC\MD	Ok,M
19	P4916-12	VN084977.D	20 Nov 2024 18:34	JC\MD	Ok,M
20	P4924-04	VN084978.D	20 Nov 2024 18:58	JC\MD	Ok,M
21	P4925-04	VN084979.D	20 Nov 2024 19:22	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112024

Review By	Semsettin Yesilyurt	Review On	11/21/2024 6:44:11 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2024 6:46:29 AM		
SubDirectory	VN112024	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131654
Initial Calibration Stds	
CCC	VP131655,VP131656
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4925-08	VN084980.D	20 Nov 2024 19:46	JC\MD	Ok,M
23	P4921-01	VN084981.D	20 Nov 2024 20:10	JC\MD	Not Ok
24	VN1120WBSD02	VN084982.D	20 Nov 2024 20:34	JC\MD	Ok,M
25	P4770-01	VN084983.D	20 Nov 2024 20:58	JC\MD	Ok
26	P4892-04	VN084984.D	20 Nov 2024 21:22	JC\MD	Ok
27	VSTDCCC050	VN084985.D	20 Nov 2024 21:46	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

Review By	Mahesh Dadoda	Review On	11/20/2024 1:01:03 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM		
SubDirectory	VY111924	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131638
Initial Calibration Stds	VP131639,VP131640,VP131641,VP131642,VP131643,VP131644
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP131645
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020337.D	19 Nov 2024 14:40	SY/MD	Ok
2	VSTDICC005	VY020338.D	19 Nov 2024 15:49	SY/MD	Ok,M
3	VSTDICC010	VY020339.D	19 Nov 2024 16:12	SY/MD	Ok,M
4	VSTDICC020	VY020340.D	19 Nov 2024 16:35	SY/MD	Ok,M
5	VSTDICCC050	VY020341.D	19 Nov 2024 16:57	SY/MD	Ok,M
6	VSTDICC100	VY020342.D	19 Nov 2024 17:20	SY/MD	Ok,M
7	VSTDICC150	VY020343.D	19 Nov 2024 17:42	SY/MD	Ok,M
8	VIBLK	VY020344.D	19 Nov 2024 18:06	SY/MD	Ok
9	VSTDICV050	VY020345.D	19 Nov 2024 18:52	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM		
SubDirectory	VY112124	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131692
Initial Calibration Stds	
CCC	VP131693,VP131694
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020372.D	21 Nov 2024 08:32	SY/MD	Ok
2	VSTDCCC050	VY020373.D	21 Nov 2024 09:25	SY/MD	Ok,M
3	VY1121SBL01	VY020374.D	21 Nov 2024 09:59	SY/MD	Ok
4	VY1121SBS01	VY020375.D	21 Nov 2024 10:39	SY/MD	Ok,M
5	VY1121SBSD01	VY020376.D	21 Nov 2024 11:02	SY/MD	Ok,M
6	P4852-01	VY020377.D	21 Nov 2024 11:25	SY/MD	Ok
7	P4852-02RE	VY020378.D	21 Nov 2024 11:49	SY/MD	Confirms
8	P4852-03	VY020379.D	21 Nov 2024 12:12	SY/MD	Ok
9	P4908-03	VY020380.D	21 Nov 2024 12:36	SY/MD	Ok
10	P4909-02	VY020381.D	21 Nov 2024 12:59	SY/MD	Ok
11	P4929-01RE	VY020382.D	21 Nov 2024 13:23	SY/MD	Confirms
12	P4910-07	VY020383.D	21 Nov 2024 13:46	SY/MD	Ok
13	P4910-03	VY020384.D	21 Nov 2024 14:09	SY/MD	Ok
14	P4870-03	VY020385.D	21 Nov 2024 14:33	SY/MD	Ok
15	P4870-06	VY020386.D	21 Nov 2024 14:56	SY/MD	Ok
16	P4870-12	VY020387.D	21 Nov 2024 15:20	SY/MD	Ok
17	P4892-02	VY020388.D	21 Nov 2024 15:43	SY/MD	ReRun
18	P4860-10	VY020389.D	21 Nov 2024 16:06	SY/MD	Ok
19	P4860-09	VY020390.D	21 Nov 2024 16:30	SY/MD	Ok
20	P4925-03	VY020391.D	21 Nov 2024 16:53	SY/MD	Ok
21	P4893-03	VY020392.D	21 Nov 2024 17:17	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM		
SubDirectory	VY112124	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131692
Initial Calibration Stds	
CCC	VP131693,VP131694
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4893-07	VY020393.D	21 Nov 2024 17:40	SY/MD	Ok
23	P4925-07	VY020394.D	21 Nov 2024 18:04	SY/MD	Ok
24	P4892-01	VY020395.D	21 Nov 2024 18:27	SY/MD	Ok
25	P4938-07	VY020396.D	21 Nov 2024 18:50	SY/MD	Ok
26	P4938-03	VY020397.D	21 Nov 2024 19:14	SY/MD	Ok
27	P4936-01	VY020398.D	21 Nov 2024 19:37	SY/MD	ReRun
28	VSTDCCC050	VY020399.D	21 Nov 2024 20:00	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM		
SubDirectory	VY112224	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020400.D	22 Nov 2024 08:56	SY/MD	Ok
2	VSTDCCC050	VY020401.D	22 Nov 2024 09:40	SY/MD	Ok,M
3	VY1122SBL01	VY020402.D	22 Nov 2024 10:15	SY/MD	Ok
4	VY1122SBS01	VY020403.D	22 Nov 2024 10:42	SY/MD	Not Ok
5	VY1122SBS02	VY020404.D	22 Nov 2024 11:04	SY/MD	Ok,M
6	P4936-01RE	VY020405.D	22 Nov 2024 11:38	SY/MD	Confirms
7	P4892-02	VY020406.D	22 Nov 2024 12:01	SY/MD	Ok
8	P4954-03	VY020407.D	22 Nov 2024 12:53	SY/MD	ReRun
9	P4948-03	VY020408.D	22 Nov 2024 13:16	SY/MD	ReRun
10	P4948-01	VY020409.D	22 Nov 2024 13:39	SY/MD	Ok
11	P4951-02	VY020410.D	22 Nov 2024 14:03	SY/MD	ReRun
12	P4954-01	VY020411.D	22 Nov 2024 14:26	SY/MD	ReRun
13	P4946-02	VY020412.D	22 Nov 2024 14:50	SY/MD	ReRun
14	P4946-01	VY020413.D	22 Nov 2024 15:13	SY/MD	Ok
15	P4960-01	VY020414.D	22 Nov 2024 15:36	SY/MD	Ok
16	P4960-02	VY020415.D	22 Nov 2024 16:00	SY/MD	Ok
17	P4960-03	VY020416.D	22 Nov 2024 16:23	SY/MD	Not Ok
18	P4960-04	VY020417.D	22 Nov 2024 16:47	SY/MD	Not Ok
19	P4960-05	VY020418.D	22 Nov 2024 17:10	SY/MD	Not Ok
20	P4960-06	VY020419.D	22 Nov 2024 17:33	SY/MD	Not Ok
21	VIBLK	VY020420.D	22 Nov 2024 17:57	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM		
SubDirectory	VY112224	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY020421.D	22 Nov 2024 18:20	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112024

Review By	Semsettin Yesilyurt	Review On	11/21/2024 6:44:11 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2024 6:46:29 AM		
SubDirectory	VN112024	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131654
Initial Calibration Stds	
CCC	VP131655,VP131656
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	VN084959.D	20 Nov 2024 09:51		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084960.D	20 Nov 2024 11:18		JC\MD	Ok,M
3	VN1120MBL01	VN1120MBL01	VN084961.D	20 Nov 2024 11:57	not needed	JC\MD	Not Ok
4	VN1120WBL01	VN1120WBL01	VN084962.D	20 Nov 2024 12:21		JC\MD	Ok
5	VN1120WBS01	VN1120WBS01	VN084963.D	20 Nov 2024 12:45	recovery low	JC\MD	Not Ok
6	VN1120WBS02	VN1120WBS02	VN084964.D	20 Nov 2024 13:20		JC\MD	Ok,M
7	P4864-01	MONTCLAIR-TOTE-2	VN084965.D	20 Nov 2024 13:44	vial A pH<2	JC\MD	Ok
8	PB165108TB	PB165108TB	VN084966.D	20 Nov 2024 14:08		JC\MD	Ok
9	PB165122TB	PB165122TB	VN084967.D	20 Nov 2024 14:33		JC\MD	Ok
10	P4770-01	MW-1	VN084968.D	20 Nov 2024 14:57	Not Required	JC\MD	Not Ok
11	P4845-12	FSND-MW-31-2024111	VN084969.D	20 Nov 2024 15:21	vial B pH<2	JC\MD	Ok
12	VN1120WBSD02	VN1120WBSD02	VN084970.D	20 Nov 2024 15:45	Recovery fail	JC\MD	Not Ok
13	P4893-04	MH-763	VN084971.D	20 Nov 2024 16:09	vial A pH#5.0	JC\MD	Ok
14	P4893-08	MH-762	VN084972.D	20 Nov 2024 16:34	vial A pH#5.0	JC\MD	Ok
15	P4910-04	MH-COTTAGE	VN084973.D	20 Nov 2024 16:58	vial A pH#5.0	JC\MD	Ok,M
16	P4910-08	MH-759	VN084974.D	20 Nov 2024 17:22	vial A pH#5.0	JC\MD	Ok,M
17	P4916-04	TP-1-WC	VN084975.D	20 Nov 2024 17:46	vial A pH#5.0	JC\MD	Ok,M
18	P4916-08	TP-2-WC	VN084976.D	20 Nov 2024 18:10	vial A pH#5.0	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112024

Review By	Semsettin Yesilyurt	Review On	11/21/2024 6:44:11 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/21/2024 6:46:29 AM		
SubDirectory	VN112024	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131654
Initial Calibration Stds	
CCC	VP131655,VP131656
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4916-12	TP-3-WC	VN084977.D	20 Nov 2024 18:34	vial A pH#5.0	JC\MD	Ok,M
20	P4924-04	MH-4	VN084978.D	20 Nov 2024 18:58	vial A pH#5.0	JC\MD	Ok,M
21	P4925-04	MH-741	VN084979.D	20 Nov 2024 19:22	vial A pH#5.0	JC\MD	Ok,M
22	P4925-08	MH-741	VN084980.D	20 Nov 2024 19:46	vial A pH#5.0	JC\MD	Ok,M
23	P4921-01	WC-11-A-202411	VN084981.D	20 Nov 2024 20:10	vial A pH#5.0 need straight run	JC\MD	Not Ok
24	VN1120WBSD02	VN1120WBSD02	VN084982.D	20 Nov 2024 20:34		JC\MD	Ok,M
25	P4770-01	MW-1	VN084983.D	20 Nov 2024 20:58	vial B pH<2	JC\MD	Ok
26	P4892-04	WB-310-SW	VN084984.D	20 Nov 2024 21:22	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN084985.D	20 Nov 2024 21:46		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

Review By	Mahesh Dadoda	Review On	11/20/2024 1:01:03 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM		
SubDirectory	VY111924	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131638
Initial Calibration Stds	VP131639,VP131640,VP131641,VP131642,VP131643,VP131644
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP131645
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020337.D	19 Nov 2024 14:40		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020338.D	19 Nov 2024 15:49		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020339.D	19 Nov 2024 16:12		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020340.D	19 Nov 2024 16:35		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020341.D	19 Nov 2024 16:57	Comp.#3 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020342.D	19 Nov 2024 17:20	Comp.#11 is on Quadratic Regression	SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020343.D	19 Nov 2024 17:42		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020344.D	19 Nov 2024 18:06		SY/MD	Ok
9	VSTDICV050	ICVVY111924	VY020345.D	19 Nov 2024 18:52		SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM		
SubDirectory	VY112124	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131692
Initial Calibration Stds	
CCC	VP131693,VP131694
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020372.D	21 Nov 2024 08:32		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020373.D	21 Nov 2024 09:25		SY/MD	Ok,M
3	VY1121SBL01	VY1121SBL01	VY020374.D	21 Nov 2024 09:59		SY/MD	Ok
4	VY1121SBS01	VY1121SBS01	VY020375.D	21 Nov 2024 10:39		SY/MD	Ok,M
5	VY1121SBSD01	VY1121SBSD01	VY020376.D	21 Nov 2024 11:02		SY/MD	Ok,M
6	P4852-01	COMP-1	VY020377.D	21 Nov 2024 11:25	vial-B	SY/MD	Ok
7	P4852-02RE	COMP-2RE	VY020378.D	21 Nov 2024 11:49	ISTD Fail vial-B	SY/MD	Confirms
8	P4852-03	COMP-3	VY020379.D	21 Nov 2024 12:12	vial-B	SY/MD	Ok
9	P4908-03	SP-2	VY020380.D	21 Nov 2024 12:36	Vial-B	SY/MD	Ok
10	P4909-02	BU-02-111824	VY020381.D	21 Nov 2024 12:59	Vial-B	SY/MD	Ok
11	P4929-01RE	ARS520RE	VY020382.D	21 Nov 2024 13:23	Internal Standard Fail vial-B	SY/MD	Confirms
12	P4910-07	MH-759-VOC	VY020383.D	21 Nov 2024 13:46	vial-B	SY/MD	Ok
13	P4910-03	MH-COTTAGE-VOC	VY020384.D	21 Nov 2024 14:09	vial-B	SY/MD	Ok
14	P4870-03	TP-1-VOC	VY020385.D	21 Nov 2024 14:33	vial-B	SY/MD	Ok
15	P4870-06	MH-735-VOC	VY020386.D	21 Nov 2024 14:56	vial-B	SY/MD	Ok
16	P4870-12	TP-15-VOC	VY020387.D	21 Nov 2024 15:20	vial-B	SY/MD	Ok
17	P4892-02	WB-310-BOT	VY020388.D	21 Nov 2024 15:43	Internal Standard Fail vial-A	SY/MD	ReRun
18	P4860-10	PH2-BOT-005	VY020389.D	21 Nov 2024 16:06	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM		
SubDirectory	VY112124	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131692
Initial Calibration Stds	
CCC	VP131693,VP131694
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4860-09	PH2-BOT-006	VY020390.D	21 Nov 2024 16:30	vial-A	SY/MD	Ok
20	P4925-03	MH-741-VOC	VY020391.D	21 Nov 2024 16:53	vial-A	SY/MD	Ok
21	P4893-03	MH-763-VOC	VY020392.D	21 Nov 2024 17:17	vial-A	SY/MD	Ok
22	P4893-07	MH-762-VOC	VY020393.D	21 Nov 2024 17:40	vial-A	SY/MD	Ok
23	P4925-07	MH-758-VOC	VY020394.D	21 Nov 2024 18:04	vial-A	SY/MD	Ok
24	P4892-01	WB-310-TOP	VY020395.D	21 Nov 2024 18:27	vial-A	SY/MD	Ok
25	P4938-07	MH-734-VOC	VY020396.D	21 Nov 2024 18:50	vial-A	SY/MD	Ok
26	P4938-03	MH-732-VOC	VY020397.D	21 Nov 2024 19:14	vial-A	SY/MD	Ok
27	P4936-01	PL-01-11202024	VY020398.D	21 Nov 2024 19:37	Internal Standard Fail vial-A	SY/MD	ReRun
28	VSTDCCC050	VSTDCCC050EC	VY020399.D	21 Nov 2024 20:00		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM		
SubDirectory	VY112224	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020400.D	22 Nov 2024 08:56		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020401.D	22 Nov 2024 09:40		SY/MD	Ok,M
3	VY1122SBL01	VY1122SBL01	VY020402.D	22 Nov 2024 10:15		SY/MD	Ok
4	VY1122SBS01	VY1122SBS01	VY020403.D	22 Nov 2024 10:42	BS failed low	SY/MD	Not Ok
5	VY1122SBS02	VY1122SBS02	VY020404.D	22 Nov 2024 11:04		SY/MD	Ok,M
6	P4936-01RE	PL-01-11202024RE	VY020405.D	22 Nov 2024 11:38	vial-B ISTD Fail	SY/MD	Confirms
7	P4892-02	WB-310-BOT	VY020406.D	22 Nov 2024 12:01	vial-B BS failed low for comp. #3,28	SY/MD	Ok
8	P4954-03	TR-06-112124	VY020407.D	22 Nov 2024 12:53	vial-A BS failed low for comp. #3,28; Internal Standard Fail	SY/MD	ReRun
9	P4948-03	72-11944	VY020408.D	22 Nov 2024 13:16	vial-A	SY/MD	ReRun
10	P4948-01	337	VY020409.D	22 Nov 2024 13:39	vial-A	SY/MD	Ok
11	P4951-02	AU-05-112124	VY020410.D	22 Nov 2024 14:03	vial-A BS failed low for comp. #3,28; Internal Standard Fail	SY/MD	ReRun
12	P4954-01	TR-05-112124	VY020411.D	22 Nov 2024 14:26	vial-A BS failed low for comp. #3,28; Internal Standard Fail	SY/MD	ReRun
13	P4946-02	BW-2	VY020412.D	22 Nov 2024 14:50	vial-A Internal Standard Fail	SY/MD	ReRun
14	P4946-01	BW-1	VY020413.D	22 Nov 2024 15:13	vial-A	SY/MD	Ok
15	P4960-01	B1	VY020414.D	22 Nov 2024 15:36	vial-A	SY/MD	Ok
16	P4960-02	B2	VY020415.D	22 Nov 2024 16:00	vial-A	SY/MD	Ok
17	P4960-03	SW1	VY020416.D	22 Nov 2024 16:23	vial-A NOT PURGE	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM		
SubDirectory	VY112224	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4960-04	SW2	VY020417.D	22 Nov 2024 16:47	vial-A NOT PURGE	SY/MD	Not Ok
19	P4960-05	SW3	VY020418.D	22 Nov 2024 17:10	vial-A NOT PURGE	SY/MD	Not Ok
20	P4960-06	SW4	VY020419.D	22 Nov 2024 17:33	vial-A NOT PURGE	SY/MD	Not Ok
21	VIBLK	VIBLK	VY020420.D	22 Nov 2024 17:57		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY020421.D	22 Nov 2024 18:20		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			VOC-TCLVOA-10	8260D			11/21/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			VOC-TCLVOA-10	8260D			11/22/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP VOA	8260D			11/21/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			VOC-TCLVOA-10	8260-Low			11/20/24	

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Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

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

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085001.D	1		11/21/24 18:08	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.2		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		70 (77) - 130 (121)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.218			
540-36-3	1,4-Difluorobenzene	298000	9.1			
3114-55-4	Chlorobenzene-d5	266000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.794			

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.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4892-03	WB-310-BOT	1,2-Dichloroethane-d4	50	51.3	102	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	46.7	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.2	92	70 (77)	130 (121)
VN1121WBL02	VN1121WBL02	1,2-Dichloroethane-d4	50	50.5	101	70 (74)	130 (125)
		Dibromofluoromethane	50	48.6	97	70 (75)	130 (124)
		Toluene-d8	50	46.1	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	43.9	88	70 (77)	130 (121)
VN1121WBS02	VN1121WBS02	1,2-Dichloroethane-d4	50	49.8	100	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	47.6	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)
VN1121WBSD0	VN1121WBSD02	1,2-Dichloroethane-d4	50	52.5	105	70 (74)	130 (125)
		Dibromofluoromethane	50	51.4	103	70 (75)	130 (124)
		Toluene-d8	50	47.5	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	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.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN084998.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1121WBS02	Vinyl chloride	20	15.5	ug/L	78			70 (65)	130 (117)	
	1,1-Dichloroethene	20	15.5	ug/L	78			70 (74)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.0	ug/L	95			70 (77)	130 (113)	
	Chloroform	20	18.8	ug/L	94			70 (79)	130 (113)	
	Benzene	20	17.8	ug/L	89			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.5	ug/L	98			70 (80)	130 (115)	
	Trichloroethene	20	17.7	ug/L	89			70 (77)	130 (113)	
	Tetrachloroethene	20	17.5	ug/L	88			70 (67)	130 (123)	
	Chlorobenzene	20	18.0	ug/L	90			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN084999.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1121WBSD02	Vinyl chloride	20	17.1	ug/L	86	10		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	17.6	ug/L	88	12		70 (74)	130 (110)	20 (20)
	2-Butanone	100	130	ug/L	130	17		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.9	ug/L	100	5		70 (77)	130 (113)	20 (20)
	Chloroform	20	21.4	ug/L	107	13		70 (79)	130 (113)	20 (20)
	Benzene	20	19.4	ug/L	97	9		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.6	ug/L	108	10		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.1	ug/L	96	8		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	18.8	ug/L	94	7		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.5	ug/L	98	9		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1121WBL02

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084997.D Lab Sample ID: VN1121WBL02

Date Analyzed: 11/21/2024 Time Analyzed: 16:21

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1121WBS02	VN1121WBS02	VN084998.D	11/21/2024
VN1121WBSD02	VN1121WBSD02	VN084999.D	11/21/2024
WB-310-BOT	P4892-03	VN085001.D	11/21/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

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

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

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

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

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

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084994.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_N BFB Injection Time: 13:30

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	74.6
175	5.0 - 9.0% of mass 174	5.9 (7.9) 1
176	95.0 - 101.0% of mass 174	71.8 (96.2) 1
177	5.0 - 9.0% of mass 176	5.2 (7.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084995.D	11/21/2024	15:22
VN1121WBL02	VN1121WBL02	VN084997.D	11/21/2024	16:21
VN1121WBS02	VN1121WBS02	VN084998.D	11/21/2024	16:45
VN1121WBSD02	VN1121WBSD02	VN084999.D	11/21/2024	17:20
WB-310-BOT	P4892-03	VN085001.D	11/21/2024	18:08

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084995.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_N Time Analyzed: 15:22

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	156906	8.22	261929	9.10	230917	11.87
UPPER LIMIT	313812	8.718	523858	9.6	461834	12.365
LOWER LIMIT	78453	7.718	130965	8.6	115459	11.365
EPA SAMPLE NO.						
WB-310-BOT	163820	8.22	297677	9.10	265873	11.87
VN1121WBL02	178139	8.22	314864	9.10	264684	11.87
VN1121WBS02	154131	8.22	258963	9.09	225356	11.87
VN1121WBSD02	138009	8.22	233557	9.10	207781	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: VN084995.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_N Time Analyzed: 15:22

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

	IS4 AREA #	RT #				
12 HOUR STD	117373	13.788				
UPPER LIMIT	234746	14.288				
LOWER LIMIT	58686.5	13.288				
EPA SAMPLE NO.						
WB-310-BOT	111856	13.79				
VN1121WBL02	112398	13.79				
VN1121WBS02	114991	13.79				
VN1121WBSD02	103882	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1121WBL02	SDG No.:	P4892
Lab Sample ID:	VN1121WBL02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084997.D	1		11/21/24 16:21	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	46.1		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		70 (77) - 130 (121)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.218			
540-36-3	1,4-Difluorobenzene	315000	9.1			
3114-55-4	Chlorobenzene-d5	265000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.794			

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1121WBS02	SDG No.:	P4892
Lab Sample ID:	VN1121WBS02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084998.D	1		11/21/24 16:45	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	15.5		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	15.5		0.26	5.00	ug/L
78-93-3	2-Butanone	110		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	5.00	ug/L
67-66-3	Chloroform	18.8		0.26	5.00	ug/L
71-43-2	Benzene	17.8		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.24	5.00	ug/L
79-01-6	Trichloroethene	17.7		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	17.5		0.25	5.00	ug/L
108-90-7	Chlorobenzene	18.0		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	8.224			
540-36-3	1,4-Difluorobenzene	259000	9.094			
3114-55-4	Chlorobenzene-d5	225000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788			

U = Not Detected
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Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1121WBSD02	SDG No.:	P4892
Lab Sample ID:	VN1121WBSD02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084999.D	1		11/21/24 17:20	VN112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.1		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.26	5.00	ug/L
78-93-3	2-Butanone	130		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.9		0.25	5.00	ug/L
67-66-3	Chloroform	21.4		0.26	5.00	ug/L
71-43-2	Benzene	19.4		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	21.6		0.24	5.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	18.8		0.25	5.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	47.5		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	8.218			
540-36-3	1,4-Difluorobenzene	234000	9.1			
3114-55-4	Chlorobenzene-d5	208000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.788			

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

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B = Analyte Found in Associated Method Blank
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

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

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

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

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

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: MSVOA_N Calibration Date/Time: 11/21/2024 15:22

Lab File ID: VN084995.D Init. Calib. Date(s): 10/30/2024 10/30/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.618	0.584		-5.5	20
1,1-Dichloroethene	0.569	0.574		0.88	20
2-Butanone	0.337	0.448		32.94	20
Carbon Tetrachloride	0.525	0.606		15.43	20
Chloroform	1.121	1.295		15.52	20
Benzene	1.507	1.618		7.37	20
1,2-Dichloroethane	0.488	0.558		14.34	20
Trichloroethene	0.348	0.375		7.76	20
Tetrachloroethene	0.333	0.360		8.11	20
Chlorobenzene	1.119	1.238	0.3	10.63	20
1,2-Dichloroethane-d4	0.722	0.673		-6.79	20
Dibromofluoromethane	0.338	0.331		-2.07	20
Toluene-d8	1.247	1.154		-7.46	20
4-Bromofluorobenzene	0.466	0.442		-5.15	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_N\Data\VN112124\
Data File : VN085001.D
Acq On : 21 Nov 2024 18:08
Operator : JC\MD
Sample : P4892-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 22 04:38:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	163820	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297677	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	111856	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121255	51.246	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%			
35) Dibromofluoromethane	8.165	113	95988	47.639	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.280%			
50) Toluene-d8	10.565	98	346670	46.707	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.420%			
62) 4-Bromofluorobenzene	12.847	95	128097	46.178	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.360%			
Target Compounds						Qvalue
16) Acetone	4.436	43	21682	29.204	ug/l	100
43) Isopropyl Acetate	8.688	43	143683m	30.295	ug/l	

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

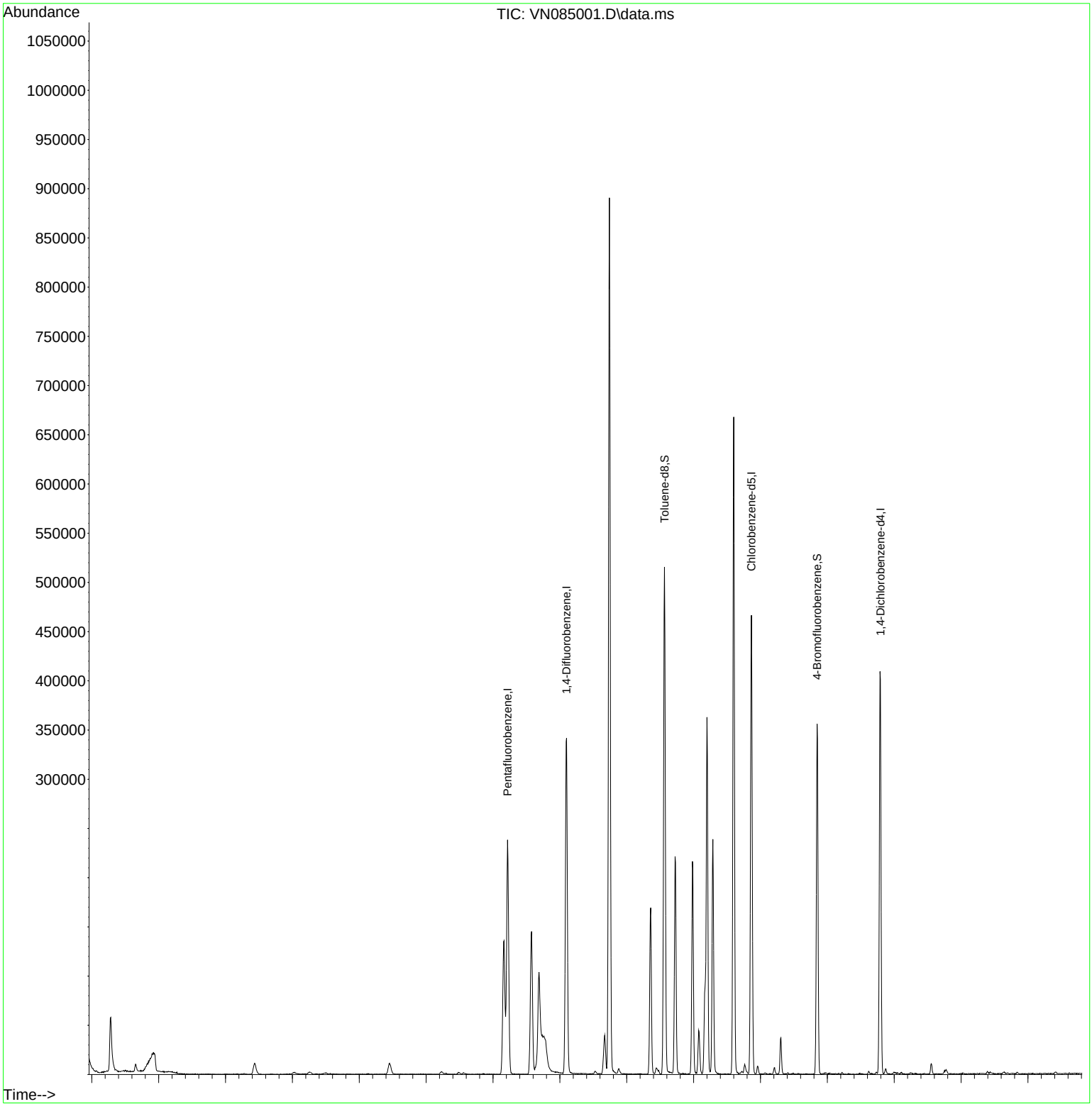
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Data File : VN085001.D
Acq On : 21 Nov 2024 18:08
Operator : JC\MD
Sample : P4892-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

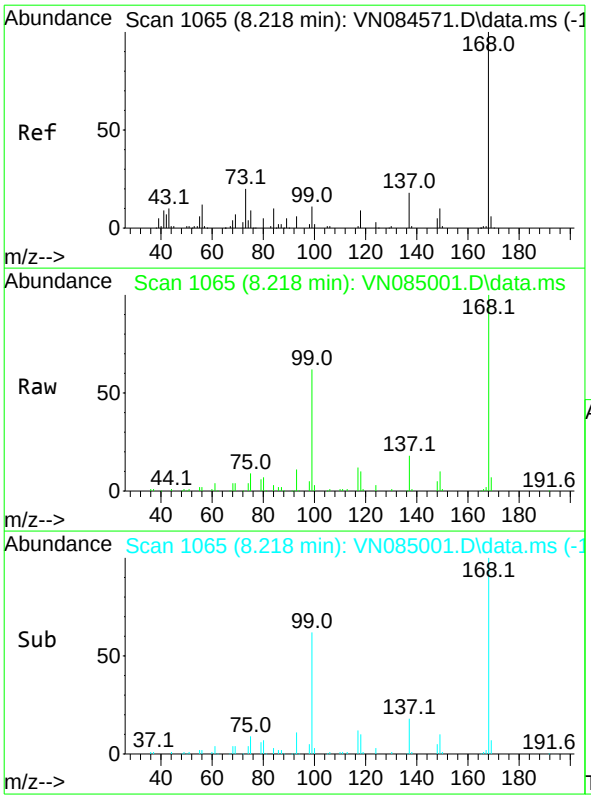
Quant Time: Nov 22 04:38:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

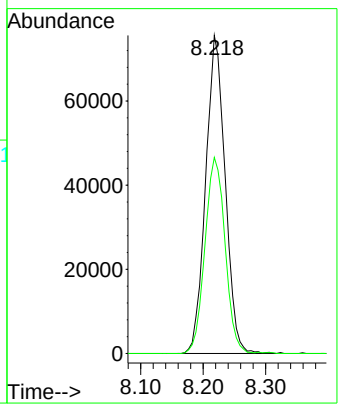




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion:168 Resp: 163820

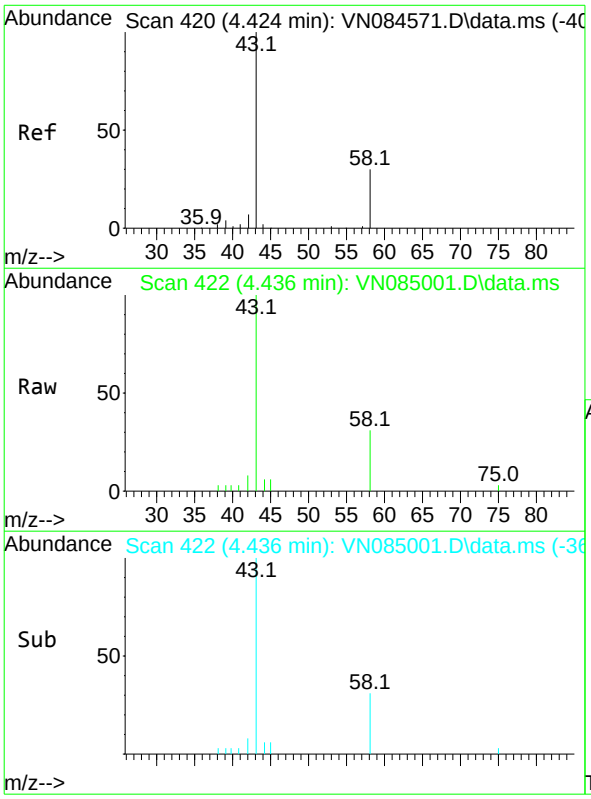
Ion	Ratio	Lower	Upper
168	100		
99	61.6	54.2	81.2



Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations
APPROVED

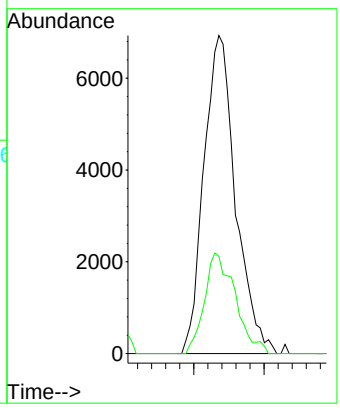
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

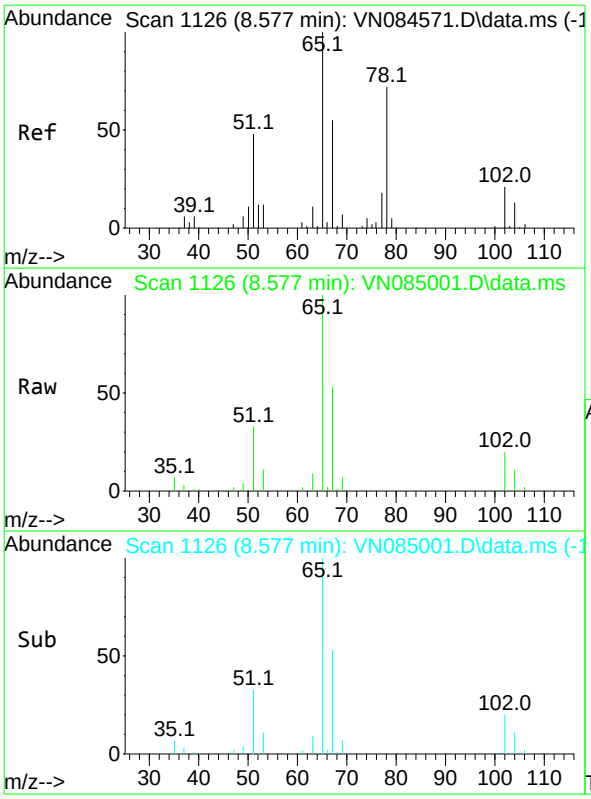


#16
Acetone
Concen: 29.204 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion: 43 Resp: 21682

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.4	36.6

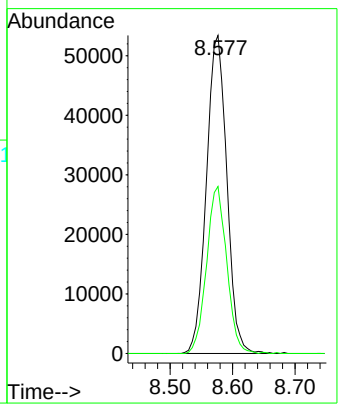




#33
1,2-Dichloroethane-d4
Concen: 51.246 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion: 65 Resp: 121255

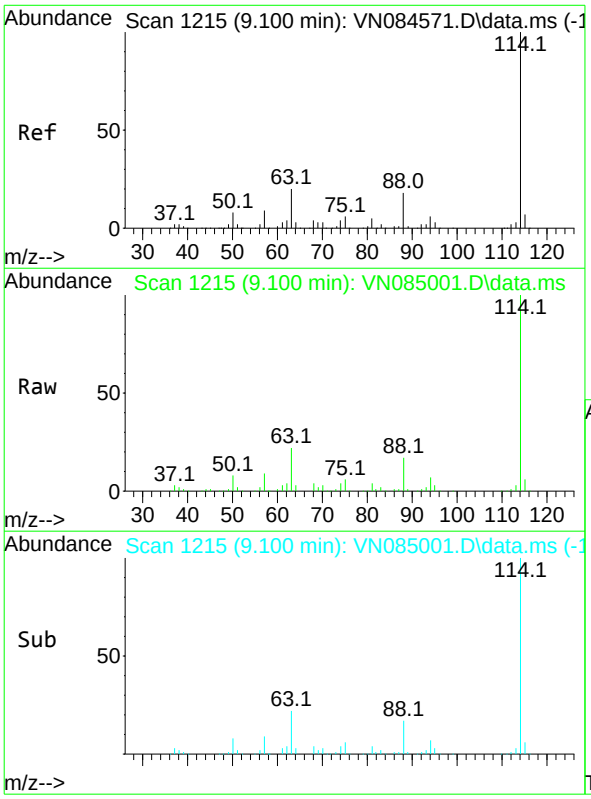
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	102.0



Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations
APPROVED

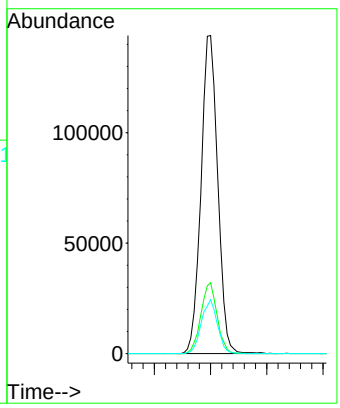
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

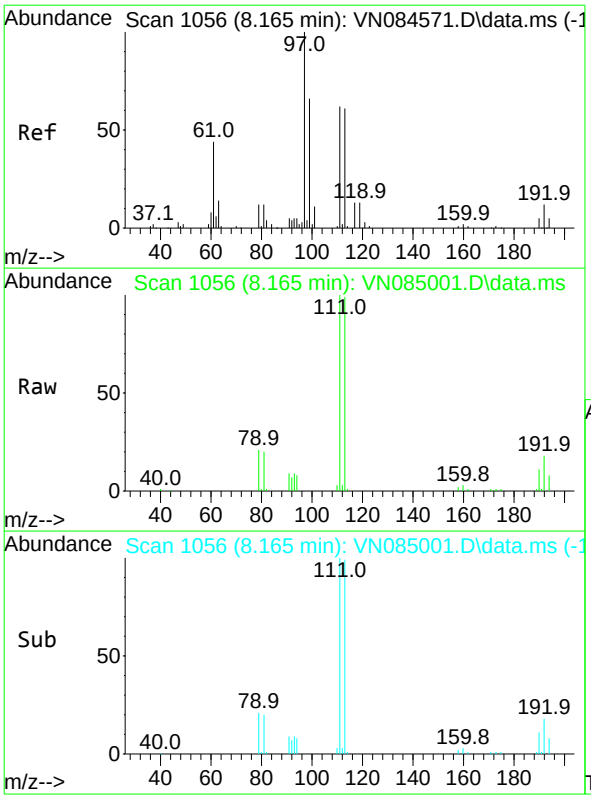


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion:114 Resp: 297677

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.8
88	16.9	0.0	31.6

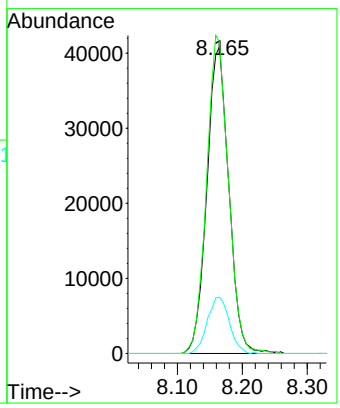




#35
Dibromofluoromethane
Concen: 47.639 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion:113 Resp: 95988

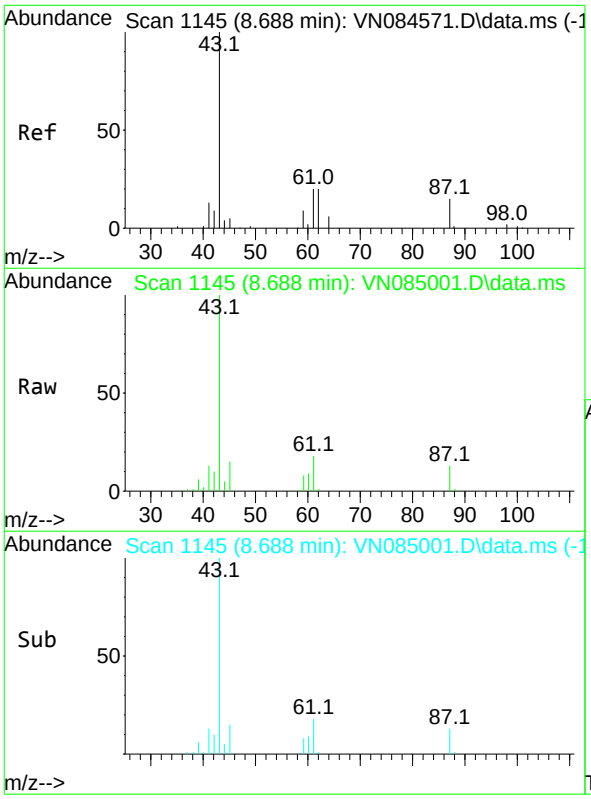
Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.3	124.9
192	18.4	13.5	20.3



Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

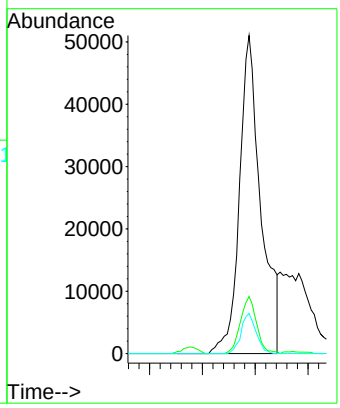
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

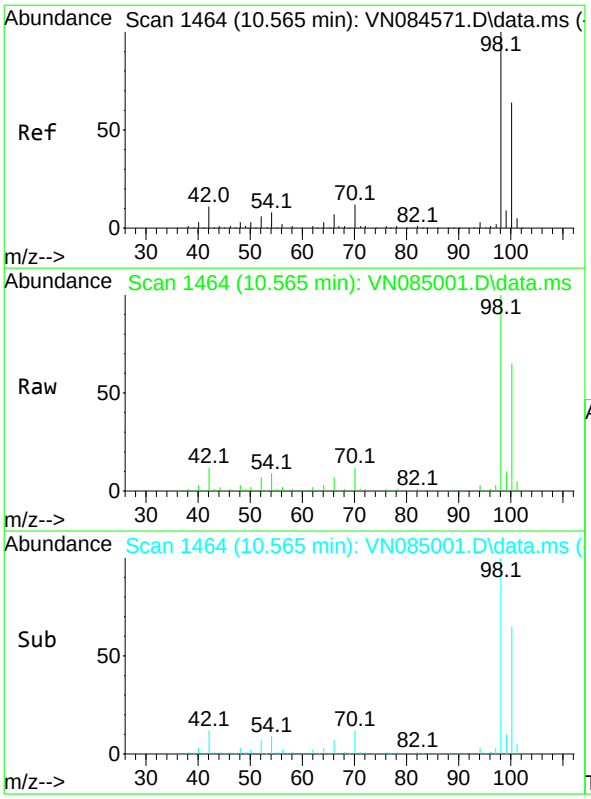


#43
Isopropyl Acetate
Concen: 30.295 ug/l m
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion: 43 Resp: 143683

Ion	Ratio	Lower	Upper
43	100		
61	13.6	20.4	30.6#
87	8.9	10.3	15.5#

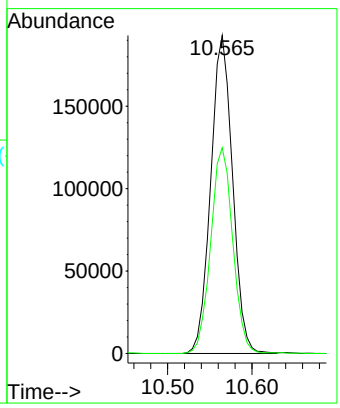




#50
Toluene-d8
Concen: 46.707 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion: 98 Resp: 346670

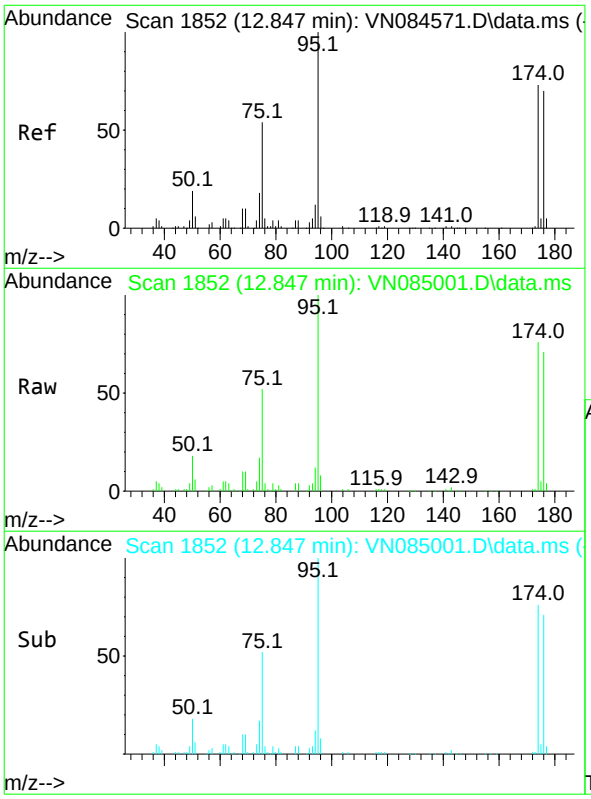
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

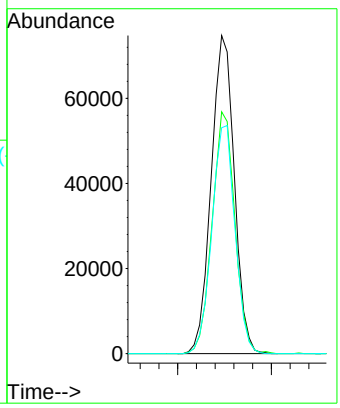
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

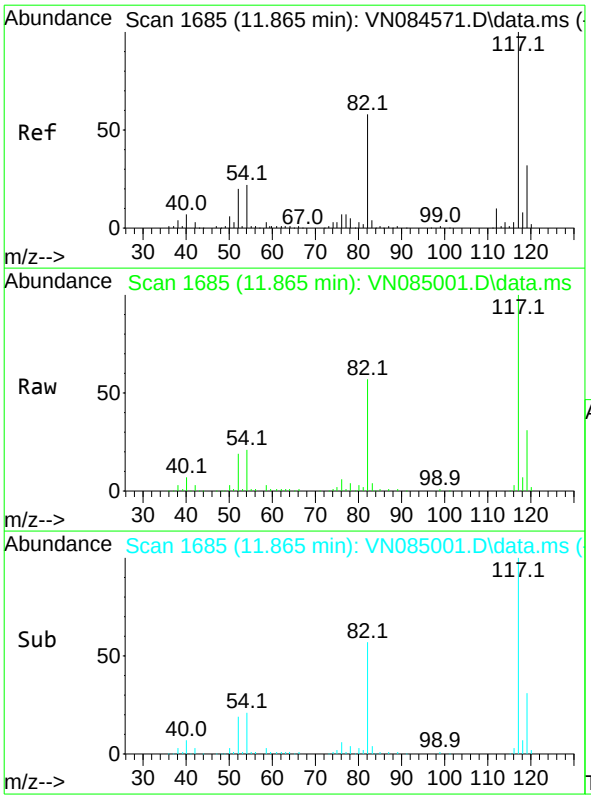


#62
4-Bromofluorobenzene
Concen: 46.178 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion: 95 Resp: 128097

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	145.2
176	72.0	0.0	140.0

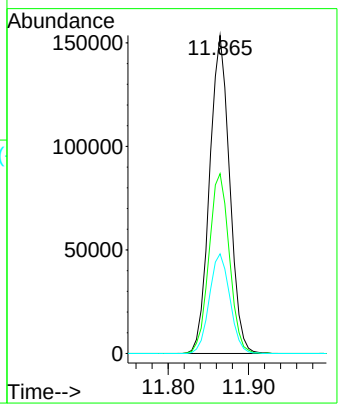




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion:117 Resp: 265873

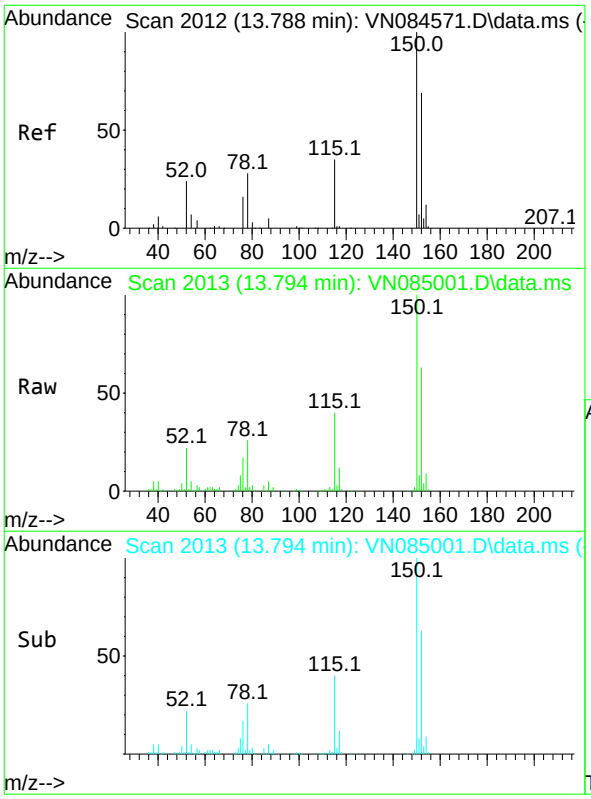
Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.2	70.8
119	31.3	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

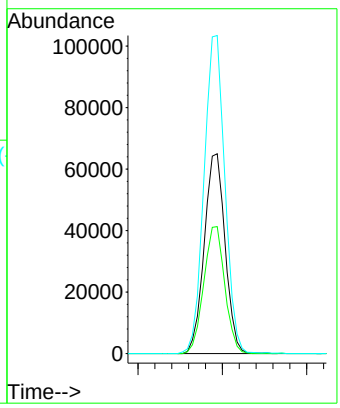
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085001.D
Acq: 21 Nov 2024 18:08

Tgt Ion:152 Resp: 111856

Ion	Ratio	Lower	Upper
152	100		
115	63.9	31.3	93.9
150	159.1	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084997.D
Acq On : 21 Nov 2024 16:21
Operator : JC\MD
Sample : VN1121WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

Quant Time: Nov 22 04:35:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

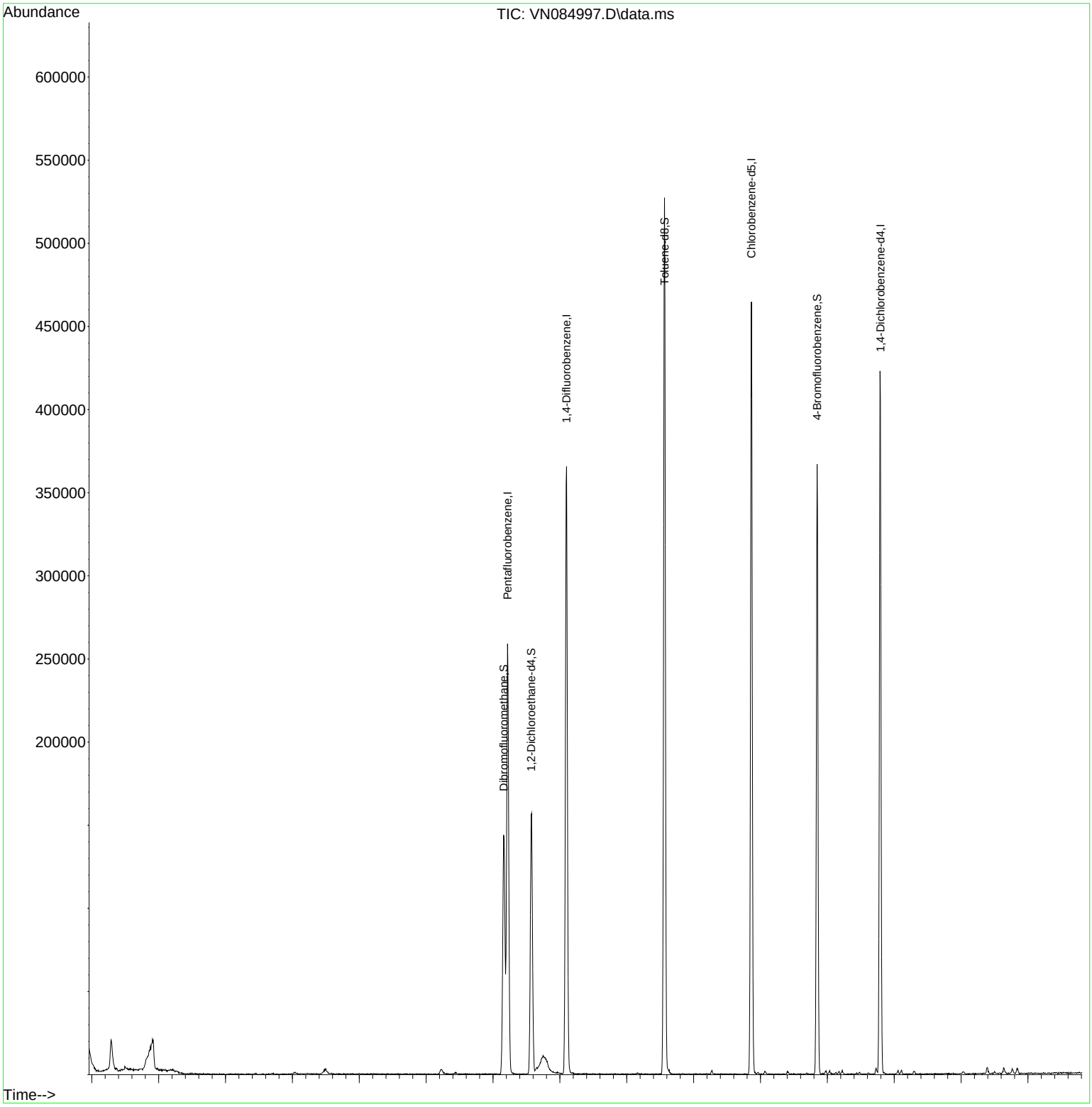
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	178139	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	314864	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	112398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	130020	50.534	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.060%			
35) Dibromofluoromethane	8.159	113	103562	48.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.180%			
50) Toluene-d8	10.565	98	361964	46.105	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.220%			
62) 4-Bromofluorobenzene	12.847	95	128897	43.930	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 87.860%			
Target Compounds						Qvalue

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

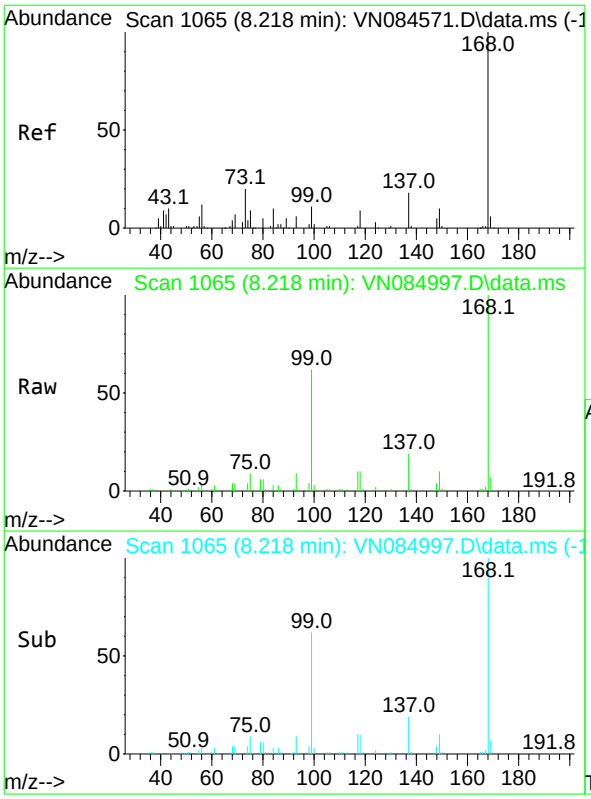
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084997.D
Acq On : 21 Nov 2024 16:21
Operator : JC\MD
Sample : VN1121WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

Quant Time: Nov 22 04:35:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



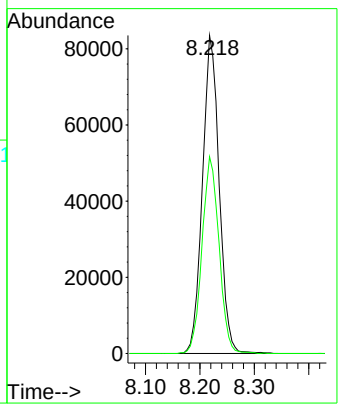
Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

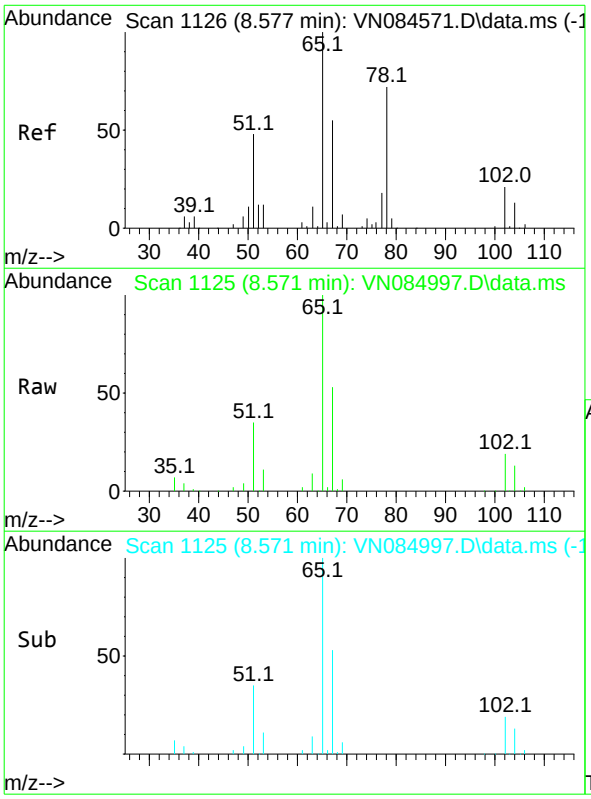


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion:168 Resp: 178139

Ion	Ratio	Lower	Upper
168	100		
99	61.9	54.2	81.2

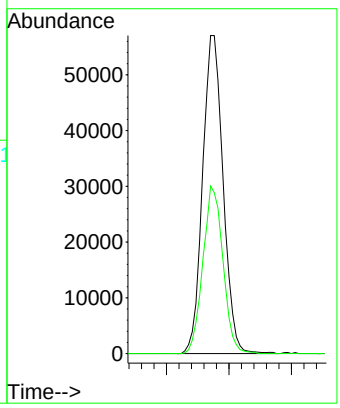


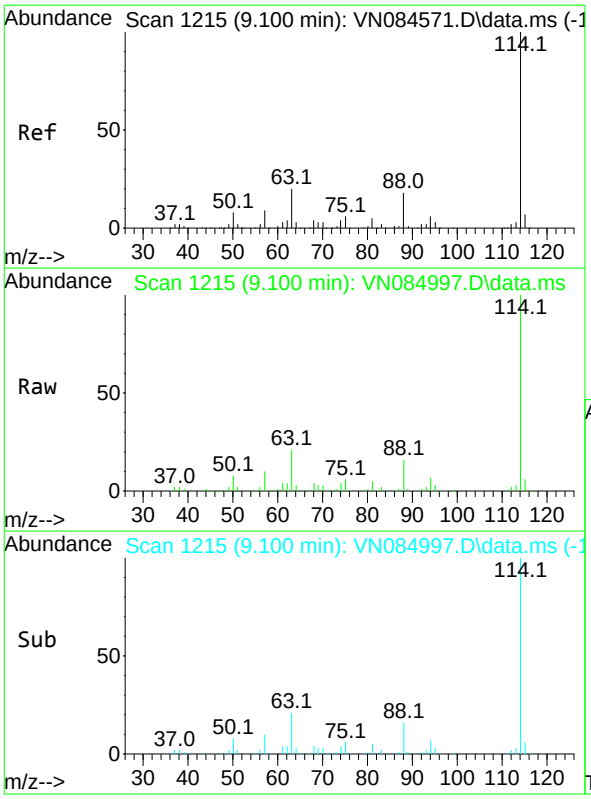


#33
1,2-Dichloroethane-d4
Concen: 50.534 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion: 65 Resp: 130020

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	102.0



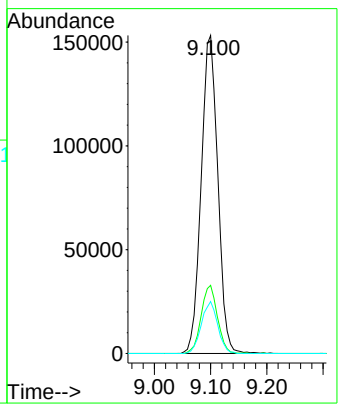


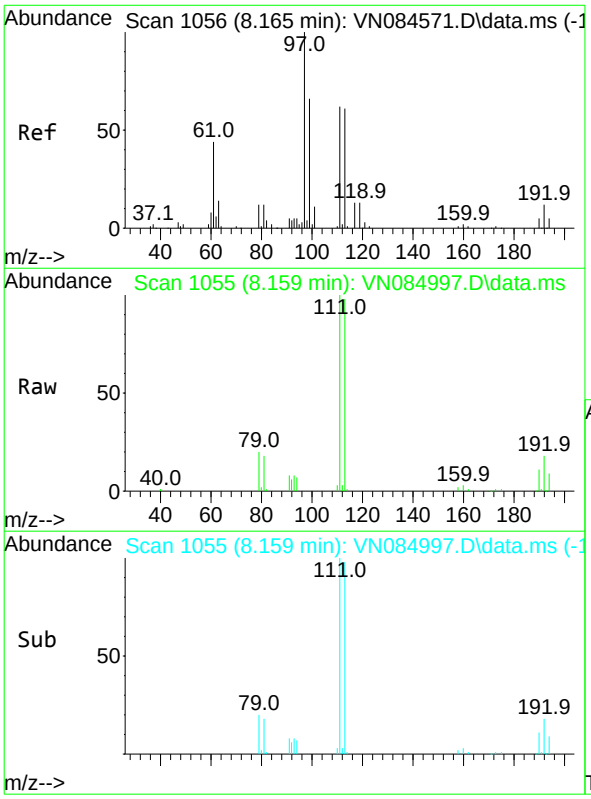
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

Tgt Ion:114 Resp: 314864

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.8
88	16.3	0.0	31.6

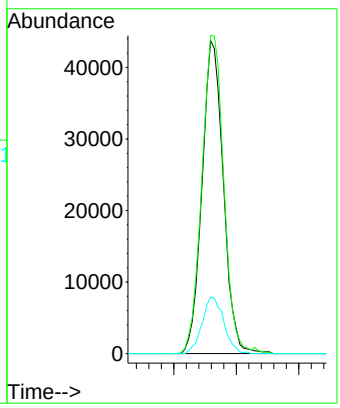


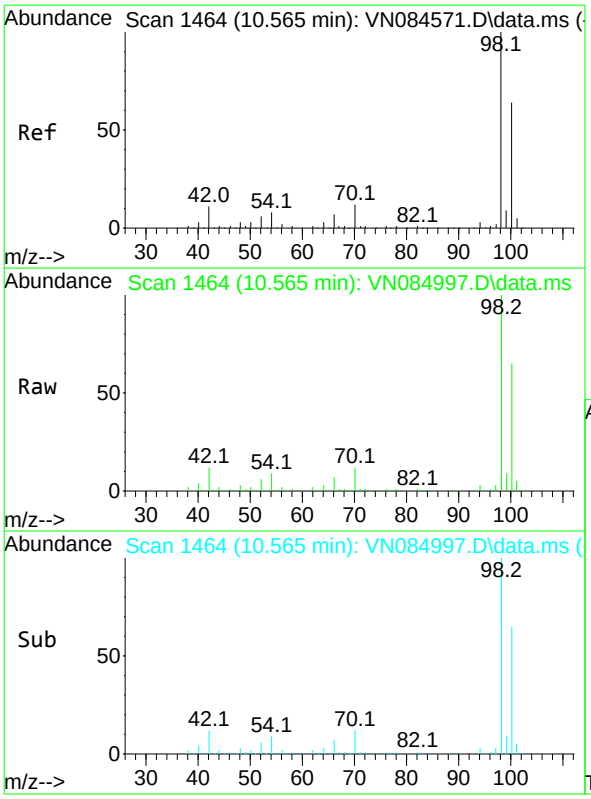


#35
Dibromofluoromethane
Concen: 48.592 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion:113 Resp: 103562

Ion	Ratio	Lower	Upper
113	100		
111	105.1	83.3	124.9
192	18.4	13.5	20.3



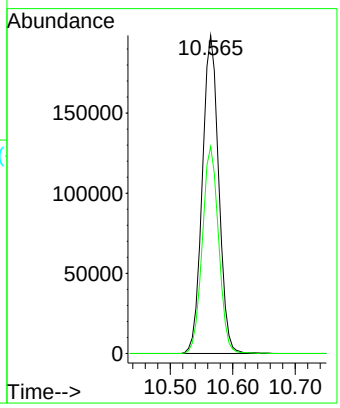


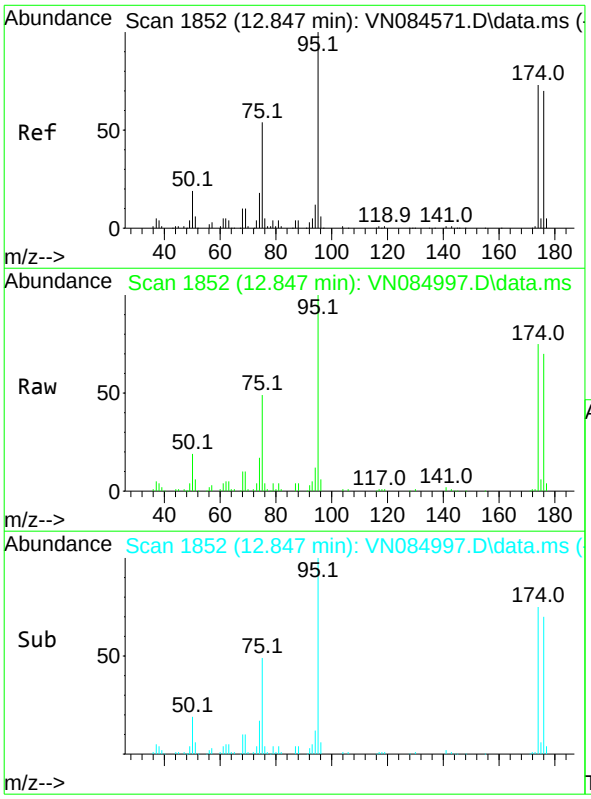
#50
Toluene-d8
Concen: 46.105 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

Tgt Ion: 98 Resp: 361964

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.7	79.1

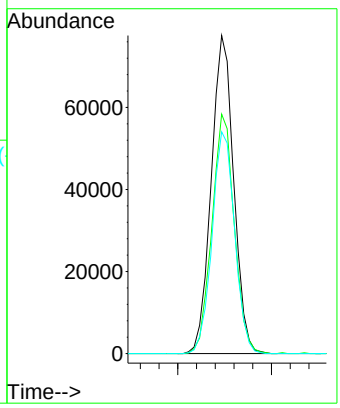




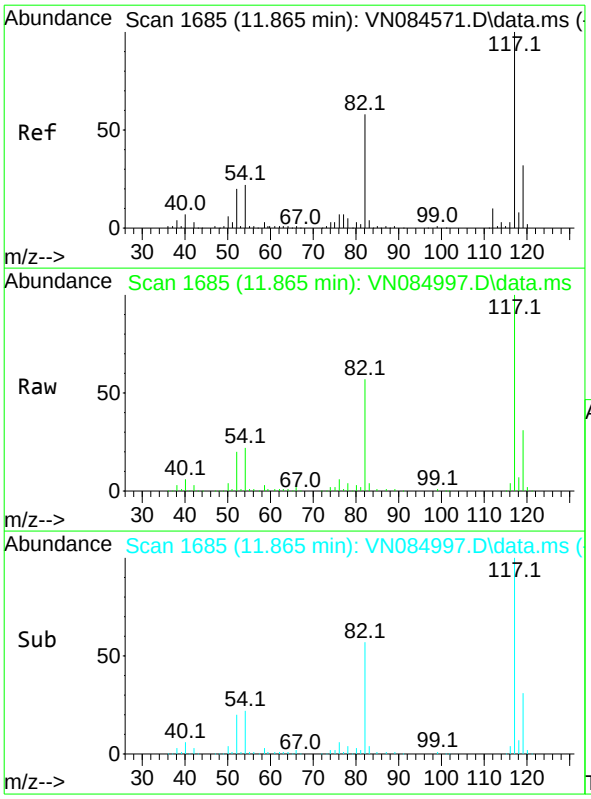
#62
4-Bromofluorobenzene
Concen: 43.930 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion: 95 Resp: 128897

Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	145.2
176	70.0	0.0	140.0



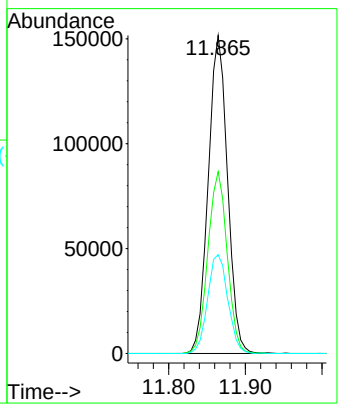
Instrument :
MSVOA_N
ClientSampleId :
VN1121WBL02

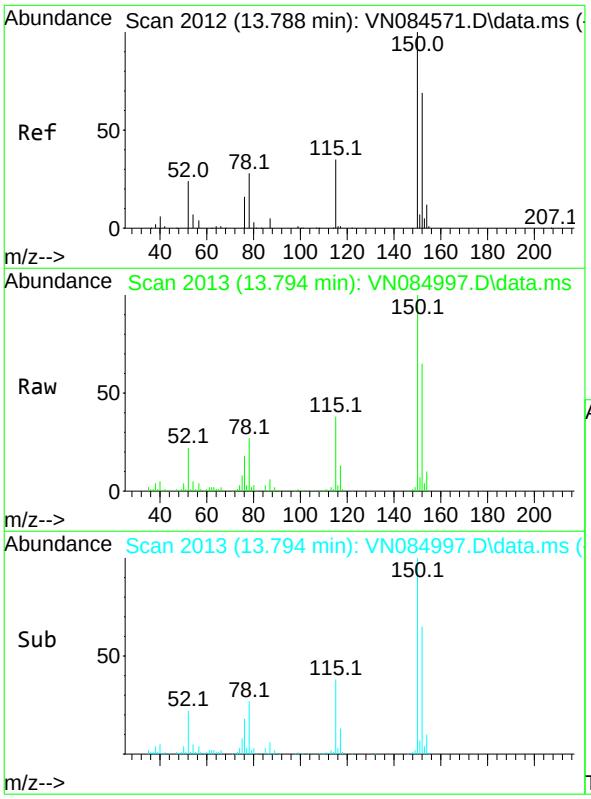


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion:117 Resp: 264684

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.2	70.8
119	31.1	25.4	38.0

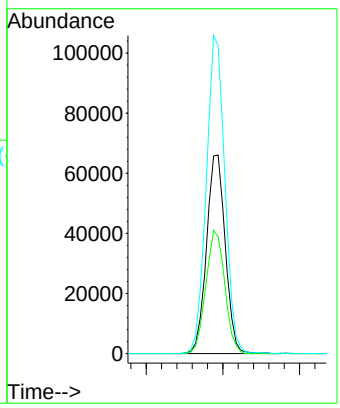




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084997.D
Acq: 21 Nov 2024 16:21

Tgt Ion:152 Resp: 112398

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.3	93.9
150	158.1	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084998.D
Acq On : 21 Nov 2024 16:45
Operator : JC\MD
Sample : VN1121WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 04:35:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS02

Manual Integrations APPROVED
Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	154131	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	258963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	225356	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	110862	49.799	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.600%			
35) Dibromofluoromethane	8.159	113	89596	51.114	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.220%			
50) Toluene-d8	10.565	98	307545	47.630	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.260%			
62) 4-Bromofluorobenzene	12.847	95	117875	48.846	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	28336	15.992	ug/l	96
3) Chloromethane	2.359	50	30744	12.918	ug/l	97
4) Vinyl Chloride	2.512	62	29499	15.479	ug/l	99
5) Bromomethane	2.901	94	16748	16.587	ug/l	99
6) Chloroethane	3.065	64	21583	17.386	ug/l	89
7) Trichlorofluoromethane	3.465	101	55533	17.690	ug/l	100
8) Diethyl Ether	3.953	74	19701	17.790	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.353	101	33184	18.707	ug/l	96
10) Methyl Iodide	4.577	142	38669	16.311	ug/l	97
11) Tert butyl alcohol	5.542	59	35340	120.266	ug/l	98
12) 1,1-Dichloroethene	4.324	96	27233	15.515	ug/l	95
13) Acrolein	4.171	56	23735	81.002	ug/l	96
14) Allyl chloride	5.012	41	50945	17.897	ug/l	90
15) Acrylonitrile	5.718	53	88824	104.415	ug/l	99
16) Acetone	4.430	43	70486	107.990	ug/l	98
17) Carbon Disulfide	4.695	76	67320	12.454	ug/l	97
18) Methyl Acetate	5.012	43	48958	18.312	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	105860	19.677	ug/l	99
20) Methylene Chloride	5.265	84	34996	17.874	ug/l	90
21) trans-1,2-Dichloroethene	5.783	96	29403	16.314	ug/l	93
22) Diisopropyl ether	6.671	45	108238	19.136	ug/l	96
23) Vinyl Acetate	6.600	43	393116	100.786	ug/l	99
24) 1,1-Dichloroethane	6.559	63	62917	18.528	ug/l	95
25) 2-Butanone	7.483	43	115459	111.170	ug/l	97
26) 2,2-Dichloropropane	7.483	77	56201	19.015	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	37773	17.949	ug/l	98
28) Bromochloromethane	7.818	49	26462	19.559	ug/l	95
29) Tetrahydrofuran	7.841	42	74522	108.158	ug/l	96
30) Chloroform	7.959	83	64875	18.770	ug/l	100
31) Cyclohexane	8.253	56	50509	16.434	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	60317	19.174	ug/l	95
36) 1,1-Dichloropropene	8.365	75	41708	17.157	ug/l	100
37) Ethyl Acetate	7.553	43	47667	21.611	ug/l	100
38) Carbon Tetrachloride	8.359	117	51661	19.012	ug/l	97
39) Methylcyclohexane	9.594	83	41075	16.609	ug/l	94
40) Benzene	8.600	78	139038	17.809	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084998.D
Acq On : 21 Nov 2024 16:45
Operator : JC\MD
Sample : VN1121WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 04:35:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	25306	21.335	ug/l		96
42) 1,2-Dichloroethane	8.665	62	49275	19.489	ug/l		100
43) Isopropyl Acetate	8.688	43	89042	21.298	ug/l		98
44) Trichloroethene	9.347	130	31910	17.723	ug/l		98
45) 1,2-Dichloropropane	9.618	63	34797	19.000	ug/l		97
46) Dibromomethane	9.706	93	25233	19.526	ug/l		98
47) Bromodichloromethane	9.888	83	52647	19.327	ug/l	#	96
48) Methyl methacrylate	9.677	41	36398	21.204	ug/l		99
49) 1,4-Dioxane	9.694	88	13569	446.070	ug/l	#	77
51) 4-Methyl-2-Pentanone	10.447	43	238130	113.253	ug/l		100
52) Toluene	10.629	92	86676	18.983	ug/l		97
53) t-1,3-Dichloropropene	10.835	75	49891	17.694	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	55110	18.466	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	35205	20.469	ug/l		93
56) Ethyl methacrylate	10.871	69	52078	20.933	ug/l		97
57) 1,3-Dichloropropane	11.159	76	57469	19.469	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	111828	96.061	ug/l		98
59) 2-Hexanone	11.194	43	177051	115.684	ug/l		99
60) Dibromochloromethane	11.359	129	40410	20.615	ug/l		97
61) 1,2-Dibromoethane	11.471	107	34339	19.496	ug/l		99
64) Tetrachloroethene	11.100	164	26302	17.546	ug/l		99
65) Chlorobenzene	11.888	112	90710	17.992	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.959	131	34992	19.954	ug/l		99
67) Ethyl Benzene	11.965	91	153382	18.226	ug/l		99
68) m/p-Xylenes	12.071	106	118552	37.210	ug/l		98
69) o-Xylene	12.394	106	58885	19.757	ug/l		99
70) Styrene	12.412	104	97931	18.836	ug/l		98
71) Bromoform	12.576	173	26248	19.892	ug/l	#	98
73) Isopropylbenzene	12.694	105	150369	18.660	ug/l		99
74) N-amyl acetate	12.494	43	64055	18.676	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	52309	19.447	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	48159m	20.951	ug/l		
77) Bromobenzene	12.982	156	36455	16.828	ug/l		99
78) n-propylbenzene	13.035	91	167227	17.709	ug/l		98
79) 2-Chlorotoluene	13.123	91	108273	17.548	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	125905	18.851	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	16778	17.317	ug/l		88
82) 4-Chlorotoluene	13.223	91	110479	17.014	ug/l		99
83) tert-Butylbenzene	13.435	119	103072	18.647	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	126064	18.288	ug/l		99
85) sec-Butylbenzene	13.618	105	140577	18.004	ug/l		100
86) p-Isopropyltoluene	13.729	119	116339	18.168	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	68366	16.171	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	66546	16.427	ug/l		98
89) n-Butylbenzene	14.059	91	92685	15.473	ug/l		99
90) Hexachloroethane	14.329	117	25155	17.615	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	68476	16.855	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10922	20.044	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	32566	14.645	ug/l		98
94) Hexachlorobutadiene	15.494	225	15921	16.304	ug/l		98
95) Naphthalene	15.641	128	103478	15.547	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	32807	15.199	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084998.D
Acq On : 21 Nov 2024 16:45
Operator : JC\MD
Sample : VN1121WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 04:35:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

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

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

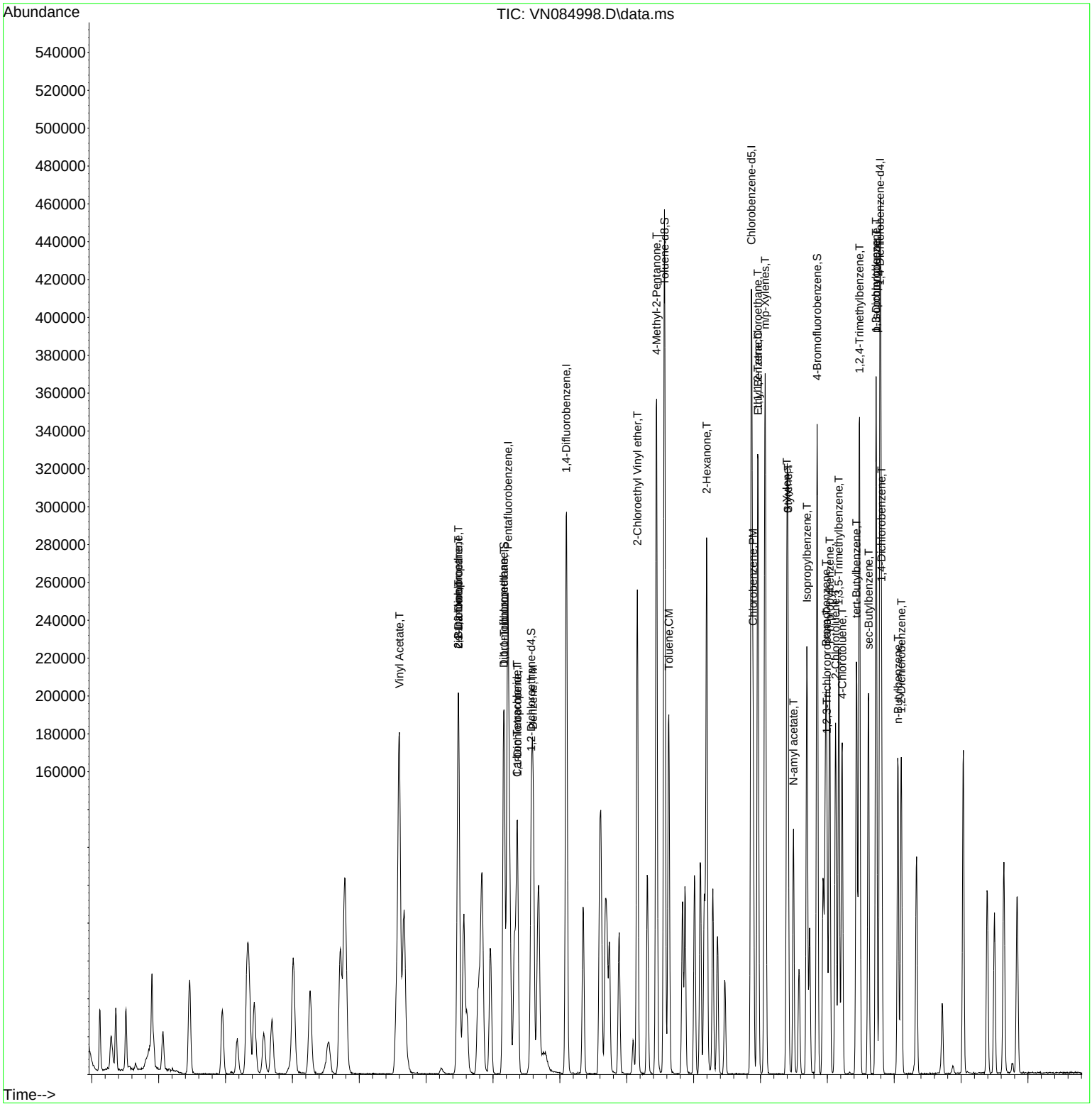
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Data File : VN084998.D
Acq On : 21 Nov 2024 16:45
Operator : JC\MD
Sample : VN1121WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 04:35:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084999.D
Acq On : 21 Nov 2024 17:20
Operator : JC\MD
Sample : VN1121WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 22 04:36:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	138009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	233557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	207781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	103882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	104684	52.518	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.040%			
35) Dibromofluoromethane	8.165	113	81197	51.361	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.720%			
50) Toluene-d8	10.565	98	276774	47.527	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.060%			
62) 4-Bromofluorobenzene	12.847	95	111628	51.289	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	27887	17.578	ug/l	95
3) Chloromethane	2.359	50	29638	14.112	ug/l	96
4) Vinyl Chloride	2.506	62	29127	17.069	ug/l	95
5) Bromomethane	2.900	94	15792	17.467	ug/l	84
6) Chloroethane	3.077	64	20174	18.212	ug/l	98
7) Trichlorofluoromethane	3.471	101	52849	18.801	ug/l	95
8) Diethyl Ether	3.953	74	20877	21.054	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	31186	19.635	ug/l	99
10) Methyl Iodide	4.583	142	38973	18.359	ug/l	99
11) Tert butyl alcohol	5.536	59	37105	141.023	ug/l	97
12) 1,1-Dichloroethene	4.324	96	27613	17.570	ug/l	93
13) Acrolein	4.177	56	23591	89.916	ug/l	99
14) Allyl chloride	5.018	41	49617	19.467	ug/l	92
15) Acrylonitrile	5.718	53	89864	117.979	ug/l	99
16) Acetone	4.424	43	77510	133.282	ug/l	97
17) Carbon Disulfide	4.700	76	64909	13.411	ug/l	98
18) Methyl Acetate	5.018	43	50541	21.776	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	108026	22.425	ug/l	98
20) Methylene Chloride	5.265	84	35202	20.079	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	29581	18.330	ug/l	91
22) Diisopropyl ether	6.671	45	109284	21.579	ug/l	97
23) Vinyl Acetate	6.600	43	393881	112.778	ug/l	98
24) 1,1-Dichloroethane	6.559	63	61415	20.198	ug/l	97
25) 2-Butanone	7.482	43	121248	130.382	ug/l	97
26) 2,2-Dichloropropane	7.482	77	53525	20.225	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	38352	20.353	ug/l	95
28) Bromochloromethane	7.812	49	26997	22.286	ug/l	95
29) Tetrahydrofuran	7.841	42	76451	123.920	ug/l	97
30) Chloroform	7.959	83	66231	21.401	ug/l	93
31) Cyclohexane	8.253	56	46156	16.772	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	58498	20.768	ug/l	94
36) 1,1-Dichloropropene	8.365	75	40212	18.341	ug/l	98
37) Ethyl Acetate	7.559	43	49202	24.734	ug/l	99
38) Carbon Tetrachloride	8.359	117	48836	19.928	ug/l	99
39) Methylcyclohexane	9.600	83	39783	17.836	ug/l	97
40) Benzene	8.600	78	136317	19.360	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084999.D
Acq On : 21 Nov 2024 17:20
Operator : JC\MD
Sample : VN1121WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 22 04:36:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	25461	23.801	ug/l		94
42) 1,2-Dichloroethane	8.671	62	49280	21.611	ug/l		99
43) Isopropyl Acetate	8.688	43	87879	23.399	ug/l		98
44) Trichloroethene	9.353	130	31053	19.123	ug/l		90
45) 1,2-Dichloropropane	9.618	63	34288	20.759	ug/l		90
46) Dibromomethane	9.706	93	25190	21.613	ug/l		99
47) Bromodichloromethane	9.888	83	52560	21.394	ug/l	#	95
48) Methyl methacrylate	9.676	41	37388	24.150	ug/l		99
49) 1,4-Dioxane	9.700	88	12710	463.282	ug/l	#	75
51) 4-Methyl-2-Pentanone	10.441	43	247482	130.504	ug/l		99
52) Toluene	10.629	92	84845	20.603	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	50847	19.994	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	55489	20.616	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	34815	22.444	ug/l		96
56) Ethyl methacrylate	10.870	69	54290	24.196	ug/l		93
57) 1,3-Dichloropropane	11.159	76	57832	21.723	ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	114207	108.776	ug/l		96
59) 2-Hexanone	11.194	43	185307	134.249	ug/l		100
60) Dibromochloromethane	11.359	129	40195	22.736	ug/l		100
61) 1,2-Dibromoethane	11.465	107	34708	21.850	ug/l		99
64) Tetrachloroethene	11.100	164	25981	18.798	ug/l		96
65) Chlorobenzene	11.888	112	90488	19.466	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	34891	21.579	ug/l		98
67) Ethyl Benzene	11.965	91	151552	19.532	ug/l		98
68) m/p-Xylenes	12.070	106	118016	40.175	ug/l		100
69) o-Xylene	12.394	106	58082	21.136	ug/l		99
70) Styrene	12.412	104	97305	20.298	ug/l		98
71) Bromoform	12.576	173	27905	22.936	ug/l	#	99
73) Isopropylbenzene	12.694	105	142970	19.639	ug/l		100
74) N-amyl acetate	12.494	43	67634	21.829	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	53957	22.205	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	42244m	20.343	ug/l		
77) Bromobenzene	12.982	156	37591	19.208	ug/l		98
78) n-propylbenzene	13.035	91	169045	19.816	ug/l		99
79) 2-Chlorotoluene	13.123	91	110371	19.801	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	125282	20.764	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	19035	21.747	ug/l		97
82) 4-Chlorotoluene	13.217	91	112209	19.128	ug/l		100
83) tert-Butylbenzene	13.435	119	105896	21.207	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	127537	20.480	ug/l		100
85) sec-Butylbenzene	13.611	105	142998	20.273	ug/l		99
86) p-Isopropyltoluene	13.729	119	117693	20.345	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	69136	18.102	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	69680	19.192	ug/l		99
89) n-Butylbenzene	14.053	91	94663	17.494	ug/l		100
90) Hexachloroethane	14.335	117	23840	18.479	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	69363	18.899	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11213	22.778	ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	33952	16.902	ug/l		99
94) Hexachlorobutadiene	15.500	225	15783	17.891	ug/l		98
95) Naphthalene	15.641	128	110187	18.326	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	33367	17.111	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
Data File : VN084999.D
Acq On : 21 Nov 2024 17:20
Operator : JC\MD
Sample : VN1121WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 22 04:36:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

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

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

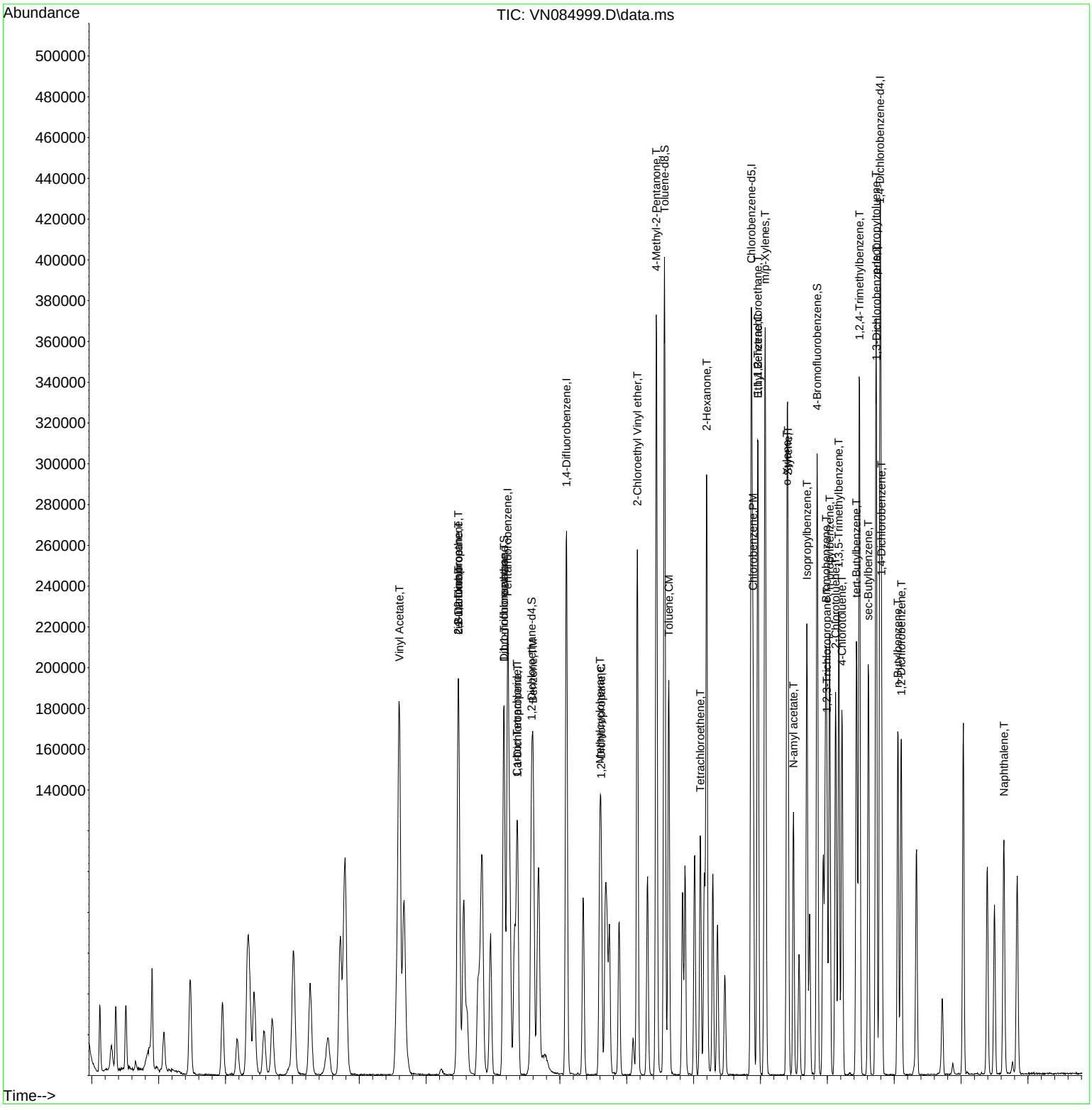
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Acq On : 21 Nov 2024 17:20
Operator : JC\MD
Sample : VN1121WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 22 04:36:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	VN112124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN084987.D	1,2,3-Trichloropropane	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VSTDCCC020	VN084987.D	Methyl tert-Butyl Ether	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VSTDCCC020	VN084987.D	tert-Butyl Alcohol	JOHN	11/21/2024 3:20:49 PM	MMDadoda	11/22/2024 3:31:44 PM	Peak Integrated by Software
VSTDCCC020	VN084993.D	1,2,3-Trichloropropane	JOHN	11/21/2024 3:21:04 PM	MMDadoda	11/22/2024 3:31:49 PM	Peak Integrated by Software
VSTDCCC050	VN084995.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:19 AM	MMDadoda	11/22/2024 3:31:52 PM	Peak Integrated by Software
VN1121WBS02	VN084998.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:23 AM	MMDadoda	11/22/2024 3:31:54 PM	Peak Integrated by Software
VN1121WBSD02	VN084999.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:28 AM	MMDadoda	11/22/2024 3:31:56 PM	Peak Integrated by Software
P4892-03	VN085001.D	Isopropyl Acetate	JOHN	11/22/2024 9:41:32 AM	MMDadoda	11/22/2024 3:31:58 PM	Peak Integrated by Software
VSTDCCC050	VN085002.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:41:49 AM	MMDadoda	11/22/2024 3:32:01 PM	Peak Integrated by Software
VSTDCCC050	VN085002.D	trans-1,4-Dichloro-2-butene	JOHN	11/22/2024 9:41:49 AM	MMDadoda	11/22/2024 3:32:01 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112124

Review By	John Carlone	Review On	11/22/2024 9:42:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:32:07 PM		
SubDirectory	VN112124	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131687,VP131713
Initial Calibration Stds	
CCC	VP131688,VP131689,VP131714,VP131715
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084986.D	21 Nov 2024 09:33	JC\MD	Ok
2	VSTDCCC020	VN084987.D	21 Nov 2024 10:09	JC\MD	Ok,M
3	VN1121WBS01	VN084988.D	21 Nov 2024 10:45	JC\MD	Ok,M
4	VN1121WBSD01	VN084989.D	21 Nov 2024 11:20	JC\MD	Not Ok
5	VN1121WBL01	VN084990.D	21 Nov 2024 11:43	JC\MD	Ok
6	P4853-01DL	VN084991.D	21 Nov 2024 12:18	JC\MD	Ok,M
7	P4853-02DL	VN084992.D	21 Nov 2024 12:42	JC\MD	Ok
8	VSTDCCC020	VN084993.D	21 Nov 2024 13:06	JC\MD	Ok,M
9	BFB	VN084994.D	21 Nov 2024 13:30	JC\MD	Ok
10	VSTDCCC050	VN084995.D	21 Nov 2024 15:22	JC\MD	Ok,M
11	VN1121MBL01	VN084996.D	21 Nov 2024 15:57	JC\MD	Ok
12	VN1121WBL02	VN084997.D	21 Nov 2024 16:21	JC\MD	Ok
13	VN1121WBS02	VN084998.D	21 Nov 2024 16:45	JC\MD	Ok,M
14	VN1121WBSD02	VN084999.D	21 Nov 2024 17:20	JC\MD	Ok,M
15	P4929-02	VN085000.D	21 Nov 2024 17:44	JC\MD	Ok
16	P4892-03	VN085001.D	21 Nov 2024 18:08	JC\MD	Ok,M
17	VSTDCCC050	VN085002.D	21 Nov 2024 18:32	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

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

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

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

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112124

Review By	John Carlone	Review On	11/22/2024 9:42:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:32:07 PM		
SubDirectory	VN112124	HP Acquire Method		HP Processing Method	624N103124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131687,VP131713
Initial Calibration Stds	
CCC	VP131688,VP131689,VP131714,VP131715
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	VN084986.D	21 Nov 2024 09:33		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN084987.D	21 Nov 2024 10:09		JC\MD	Ok,M
3	VN1121WBS01	VN1121WBS01	VN084988.D	21 Nov 2024 10:45		JC\MD	Ok,M
4	VN1121WBSD01	VN1121WBSD01	VN084989.D	21 Nov 2024 11:20	retention shift	JC\MD	Not Ok
5	VN1121WBL01	VN1121WBL01	VN084990.D	21 Nov 2024 11:43		JC\MD	Ok
6	P4853-01DL	001-WILLETS-PT-BLVD	VN084991.D	21 Nov 2024 12:18	vial B pH<2	JC\MD	Ok,M
7	P4853-02DL	002-35TH-AVE(NOV)DI	VN084992.D	21 Nov 2024 12:42	vial B pH<2	JC\MD	Ok
8	VSTDCCC020	VSTDCCC020EC	VN084993.D	21 Nov 2024 13:06		JC\MD	Ok,M
9	BFB	BFB	VN084994.D	21 Nov 2024 13:30		JC\MD	Ok
10	VSTDCCC050	VSTDCCC050	VN084995.D	21 Nov 2024 15:22		JC\MD	Ok,M
11	VN1121MBL01	VN1121MBL01	VN084996.D	21 Nov 2024 15:57	Contaminated	JC\MD	Ok
12	VN1121WBL02	VN1121WBL02	VN084997.D	21 Nov 2024 16:21		JC\MD	Ok
13	VN1121WBS02	VN1121WBS02	VN084998.D	21 Nov 2024 16:45		JC\MD	Ok,M
14	VN1121WBSD02	VN1121WBSD02	VN084999.D	21 Nov 2024 17:20		JC\MD	Ok,M
15	P4929-02	ARS520	VN085000.D	21 Nov 2024 17:44	vial A pH#5.0	JC\MD	Ok
16	P4892-03	WB-310-BOT	VN085001.D	21 Nov 2024 18:08	vial A pH#5.0	JC\MD	Ok,M
17	VSTDCCC050	VSTDCCC050EC	VN085002.D	21 Nov 2024 18:32		JC\MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP VOA	8260D			11/21/24	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165108

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 : 114771

Start Prep Date : 11/19/2024 **Time :** 16:30

End Prep Date : 11/20/2024 **Time :** 09:25

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : IZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24 11:00	JP HDE Lab JP	JC / VOC
	Preparation Group / TCLP Room	Analysis Group Lab

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165108

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
P4892-03	WB-310-BOT	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4893-04	MH-763	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4893-08	MH-762	03	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4910-04	MH-COTTAGE	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4910-08	MH-759	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4916-04	TP-1-WC	06	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4916-08	TP-2-WC	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4916-12	TP-3-WC	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4924-04	MH-4	09	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4925-04	MH-741	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4925-08	MH-741	11	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4929-02	ARS520	12	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
PB165108TB	LEB108	13	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4892-03	WB-310-BOT	N/A	N/A	N/A	N/A	100	N/A
P4893-04	MH-763	N/A	N/A	N/A	N/A	100	N/A
P4893-08	MH-762	N/A	N/A	N/A	N/A	100	N/A
P4910-04	MH-COTTAGE	N/A	N/A	N/A	N/A	100	N/A
P4910-08	MH-759	N/A	N/A	N/A	N/A	100	N/A
P4916-04	TP-1-WC	N/A	N/A	N/A	N/A	100	N/A
P4916-08	TP-2-WC	N/A	N/A	N/A	N/A	100	N/A
P4916-12	TP-3-WC	N/A	N/A	N/A	N/A	100	N/A
P4924-04	MH-4	N/A	N/A	N/A	N/A	100	N/A
P4925-04	MH-741	N/A	N/A	N/A	N/A	100	N/A
P4925-08	MH-741	N/A	N/A	N/A	N/A	100	N/A
P4929-02	ARS520	N/A	N/A	N/A	N/A	100	N/A
PB165108TB	LEB108	N/A	N/A	N/A	N/A	N/A	N/A

P4892

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4916 zhe **WorkList ID :** 185577 **Department :** TCLP Extraction **Date :** 11-19-2024 10:53:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-03	WB-310-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	M11	11/15/2024	1311 ZHE
P4893-04	MH-763	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311 ZHE
P4893-08	MH-762	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311 ZHE
P4910-04	MH-COTTAGE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4910-08	MH-759	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4916-04	TP-1-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4916-08	TP-2-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4916-12	TP-3-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4924-04	MH-4	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311 ZHE
P4925-04	MH-741	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L61	11/19/2024	1311 ZHE
P4925-08	MH-741	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	11/19/2024	1311 ZHE
P4929-02	ARS520	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	11/19/2024	1311 ZHE
						L61	11/19/2024	1311 ZHE

293 of 1349

Date/Time 11.19.24 15:20

Raw Sample Received by: SO (w/ C)

Raw Sample Relinquished by: [signature]

Date/Time 11.19.24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: SO - (w/ C)

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Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-310-TOP**								
P4892-01	WB-310-TOP	SOIL	Acenaphthylene		200.000	J	140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene		720.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene		330.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene		1,400.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene		1,100.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)anthracene		1,100.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Chrysene		980.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(b)fluoranthene		840.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(k)fluoranthene		350.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)pyrene		910.000		160	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Indeno(1,2,3-cd)pyrene		300.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(g,h,i)perylene		320.000		130	280	ug/Kg
			Total Svoc :		**8,550.00**				
P4892-01	WB-310-TOP	SOIL	11H-Benzo[a]fluorene	*	190.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	11H-Benzo[b]fluorene	*	360.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	4-Bromothiophene-2-aldehyde	*	840.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	9,10-Dimethylanthracene	*	430.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 1-methyl-	*	280.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 2-methyl-	*	470.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	270.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo[e]pyrene	*	400.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzophenone	*	320.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	2,100.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Decane, 2-methyl-	*	320.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2,3,6-trimethyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2-phenyl-	*	160.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphtho[2,1-b]thiophene	*	210.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene, 2-methyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Hexadecane, 2,6,10,14-tetramethy	*	150.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 1-methyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 4-methyl-	*	160.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown9.616	*	270.000	J	0	0	ug/Kg
			Total Tics :		**7,760.00**				
			Total Concentration:		**16,310.00**				
Client ID :	**WB-310-BOT**								
P4892-02	WB-310-BOT	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4892-02	WB-310-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	1,800.000	J	0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	Pentanedioic acid, dimethyl ester	*	97.300	J	0	0	ug/Kg
			Total Tics :		**2,477.30**				
			Total Concentration:		**2,477.30**				
Client ID : WB-310-SW									
P4892-04	WB-310-SW	WATER	Supraene	*	2.800	J	0	0	ug/L
P4892-04	WB-310-SW	WATER	unknown14.239	*	2.100	J	0	0	ug/L
			Total Tics :		**4.90**				
			Total Concentration:		**4.90**				

SAMPLE DATA

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	300	UQ	300	550	ug/Kg
108-95-2	Phenol	140	U	140	280	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	280	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	280	ug/Kg
95-48-7	2-Methylphenol	130	U	130	280	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	150	280	ug/Kg
98-86-2	Acetophenone	150	U	150	280	ug/Kg
65794-96-9	3+4-Methylphenols	130	U	130	550	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	67.3	U	67.3	130	ug/Kg
67-72-1	Hexachloroethane	140	U	140	280	ug/Kg
98-95-3	Nitrobenzene	150	U	150	280	ug/Kg
78-59-1	Isophorone	140	U	140	280	ug/Kg
88-75-5	2-Nitrophenol	160	U	160	280	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	160	280	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	140	280	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	130	280	ug/Kg
91-20-3	Naphthalene	140	U	140	280	ug/Kg
106-47-8	4-Chloroaniline	140	UQ	140	280	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	280	ug/Kg
105-60-2	Caprolactam	140	U	140	550	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	130	280	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	280	ug/Kg
77-47-4	Hexachlorocyclopentadiene	260	UQ	260	550	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	280	ug/Kg
95-95-4	2,4,5-Trichlorophenol	120	U	120	280	ug/Kg
92-52-4	1,1-Biphenyl	150	U	150	280	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	280	ug/Kg
88-74-4	2-Nitroaniline	160	U	160	280	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	280	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	200	J	140	280	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	140	280	ug/Kg
99-09-2	3-Nitroaniline	150	UQ	150	280	ug/Kg
83-32-9	Acenaphthene	140	U	140	280	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	550	ug/Kg
100-02-7	4-Nitrophenol	190	U	190	550	ug/Kg
132-64-9	Dibenzofuran	140	U	140	280	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	140	280	ug/Kg
84-66-2	Diethylphthalate	130	U	130	280	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	140	280	ug/Kg
86-73-7	Fluorene	140	U	140	280	ug/Kg
100-01-6	4-Nitroaniline	180	U	180	280	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	550	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	140	280	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	130	280	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	280	ug/Kg
1912-24-9	Atrazine	150	U	150	280	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	550	ug/Kg
85-01-8	Phenanthrene	720		140	280	ug/Kg
120-12-7	Anthracene	330		140	280	ug/Kg
86-74-8	Carbazole	130	U	130	280	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	280	ug/Kg
206-44-0	Fluoranthene	1400		140	280	ug/Kg
129-00-0	Pyrene	1100		140	280	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	160	280	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	UQ	160	550	ug/Kg
56-55-3	Benzo(a)anthracene	1100		130	280	ug/Kg
218-01-9	Chrysene	980		130	280	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	150	280	ug/Kg
117-84-0	Di-n-octyl phthalate	180	U	180	550	ug/Kg
205-99-2	Benzo(b)fluoranthene	840		140	280	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	350		140	280	ug/Kg
50-32-8	Benzo(a)pyrene	910		160	280	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	300		130	280	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	280	ug/Kg
191-24-2	Benzo(g,h,i)perylene	320		130	280	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	280	ug/Kg
123-91-1	1,4-Dioxane	180	U	180	280	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	120	U	120	280	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.6		30 (18) - 130 (112)	64%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.0		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.0		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.1		30 (10) - 130 (116)	58%	SPK: 150
1718-51-0	Terphenyl-d14	58.6		30 (10) - 130 (105)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	110000	6.875			
1146-65-2	Naphthalene-d8	378000	8.151			
15067-26-2	Acenaphthene-d10	180000	9.904			
1517-22-2	Phenanthrene-d10	279000	11.398			
1719-03-5	Chrysene-d12	209000	14.045			
1520-96-3	Perylene-d12	217000	15.533			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2100	J		2.15	ug/Kg
	unknown9.616	270	J		9.62	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	180	J		10.3	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	150	J		10.6	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
006975-98-0	Decane, 2-methyl-	320	J		10.8	ug/Kg
000233-02-3	Naphtho[2,1-b]thiophene	210	J		11.3	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000610-48-0	Anthracene, 1-methyl-	280	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	470	J		11.9	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	290	J		12.0	ug/Kg
018791-75-8	4-Bromothiophene-2-aldehyde	840	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	160	J		12.2	ug/Kg
000781-43-1	9,10-Dimethylanthracene	430	J		12.5	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	270	J		12.7	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	180	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	360	J		13.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	190	J		13.2	ug/Kg
002381-21-7	Pyrene, 1-methyl-	180	J		13.3	ug/Kg
003353-12-6	Pyrene, 4-methyl-	160	J		13.4	ug/Kg
000192-97-2	Benzo[e]pyrene	400	J		15.4	ug/Kg

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	UQ	210	380	ug/Kg
108-95-2	Phenol	96.0	U	96.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	96.9	U	96.9	200	ug/Kg
95-57-8	2-Chlorophenol	96.7	U	96.7	200	ug/Kg
95-48-7	2-Methylphenol	93.3	U	93.3	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	92.4	U	92.4	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.7	U	46.7	92.6	ug/Kg
67-72-1	Hexachloroethane	96.1	U	96.1	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	98.0	U	98.0	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	99.4	U	99.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	87.4	U	87.4	200	ug/Kg
91-20-3	Naphthalene	95.6	U	95.6	200	ug/Kg
106-47-8	4-Chloroaniline	95.6	UQ	95.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	96.5	U	96.5	200	ug/Kg
105-60-2	Caprolactam	100	U	100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.7	U	89.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	95.5	U	95.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	UQ	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	82.7	U	82.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	85.7	U	85.7	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	96.5	U	96.5	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	94.6	U	94.6	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

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	96.3	U	96.3	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	93.9	U	93.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	97.7	U	97.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.8	U	99.8	200	ug/Kg
84-66-2	Diethylphthalate	92.8	U	92.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	99.1	U	99.1	200	ug/Kg
86-73-7	Fluorene	99.0	U	99.0	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	94.5	U	94.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	91.4	U	91.4	200	ug/Kg
118-74-1	Hexachlorobenzene	98.4	U	98.4	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	89.5	U	89.5	380	ug/Kg
85-01-8	Phenanthrene	97.3	U	97.3	200	ug/Kg
120-12-7	Anthracene	97.7	U	97.7	200	ug/Kg
86-74-8	Carbazole	93.0	U	93.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	97.6	U	97.6	200	ug/Kg
206-44-0	Fluoranthene	94.6	U	94.6	200	ug/Kg
129-00-0	Pyrene	96.1	U	96.1	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	93.4	U	93.4	200	ug/Kg
218-01-9	Chrysene	92.1	U	92.1	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	93.9	U	93.9	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	95.6	U	95.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90.4	U	90.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	94.0	U	94.0	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.8	U	92.8	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	86.5	U	86.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	121		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	117		30 (15) - 130 (107)	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.8		30 (18) - 130 (107)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		30 (20) - 130 (109)	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	87.8		30 (10) - 130 (105)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	112000	6.875			
1146-65-2	Naphthalene-d8	426000	8.151			
15067-26-2	Acenaphthene-d10	234000	9.91			
1517-22-2	Phenanthrene-d10	439000	11.398			
1719-03-5	Chrysene-d12	272000	14.045			
1520-96-3	Perylene-d12	223000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1800	J		2.16	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	97.3	J		7.68	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.3	ug/L
108-95-2	Phenol	0.96	U	0.96	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.73	U	0.73	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.91	U	0.91	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	0.87	U	0.87	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	UQ	5.20	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	0.92	U	0.92	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.20	ug/L
92-52-4	1,1-Biphenyl	0.94	U	0.94	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.96	U	0.96	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.3	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.3	ug/L
132-64-9	Dibenzofuran	0.96	U	0.96	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	0.99	U	0.99	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	U	3.20	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	0.92	U	0.92	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.98	U	0.98	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.3	ug/L
85-01-8	Phenanthrene	0.92	U	0.92	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.3	ug/L
56-55-3	Benzo(a)anthracene	0.97	U	0.97	5.20	ug/L
218-01-9	Chrysene	0.89	U	0.89	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	39.5		15 (10) - 110 (139)	53%	SPK: 75
13127-88-3	Phenol-d6	35.6		15 (10) - 110 (134)	47%	SPK: 75
4165-60-0	Nitrobenzene-d5	38.7		30 (49) - 130 (133)	77%	SPK: 50
321-60-8	2-Fluorobiphenyl	40.1		30 (52) - 130 (132)	80%	SPK: 50
118-79-6	2,4,6-Tribromophenol	66.4		15 (44) - 110 (137)	89%	SPK: 75
1718-51-0	Terphenyl-d14	42.1		30 (48) - 130 (125)	84%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	64500	6.869			
1146-65-2	Naphthalene-d8	240000	8.151			
15067-26-2	Acenaphthene-d10	131000	9.904			
1517-22-2	Phenanthrene-d10	245000	11.392			
1719-03-5	Chrysene-d12	178000	14.045			
1520-96-3	Perylene-d12	140000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown14.239	2.10	J		14.2	ug/L
007683-64-9	Supraene	2.80	J		14.9	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-01	WB-310-TOP	2-Fluorophenol	150	96.6	64		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.0	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.0	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	87.1	58		30 (10)	130 (116)
		Terphenyl-d14	100	58.6	59		30 (10)	130 (105)
P4892-02	WB-310-BOT	2-Fluorophenol	150	121	81		30 (18)	130 (112)
		Phenol-d6	150	117	78		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.8	82		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.4	85		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	126	84		30 (10)	130 (116)
		Terphenyl-d14	100	87.8	88		30 (10)	130 (105)
P4892-02MS	WB-310-BOTMS	2-Fluorophenol	150	90.7	60		30 (18)	130 (112)
		Phenol-d6	150	86.7	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.4	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.1	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.6	64		30 (10)	130 (116)
		Terphenyl-d14	100	73.3	73		30 (10)	130 (105)
P4892-02MSD	WB-310-BOTMSD	2-Fluorophenol	150	106	70		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.2	72		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.4	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	112	75		30 (10)	130 (116)
		Terphenyl-d14	100	85.7	86		30 (10)	130 (105)
PB165086BL	PB165086BL	2-Fluorophenol	150	124	83		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.1	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.8	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	128	86		30 (10)	130 (116)
		Terphenyl-d14	100	85.6	86		30 (10)	130 (105)
PB165086BS	PB165086BS	2-Fluorophenol	150	141	94		30 (18)	130 (112)
		Phenol-d6	150	139	93		30 (15)	130 (107)
		Nitrobenzene-d5	100	95.8	96		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.3	93		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	143	95		30 (10)	130 (116)
		Terphenyl-d14	100	96.5	96		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-04	WB-310-SW	2-Fluorophenol	75	39.5	53		15 (10)	110 (139)
		Phenol-d6	75	35.6	47		15 (10)	110 (134)
		Nitrobenzene-d5	50	38.7	77		30 (49)	130 (133)
		2-Fluorobiphenyl	50	40.1	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	66.4	89		15 (44)	110 (137)
		Terphenyl-d14	50	42.1	84		30 (48)	130 (125)
PB165152BL	PB165152BL	2-Fluorophenol	150	136	91		15 (10)	110 (139)
		Phenol-d6	150	131	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.2	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.6	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	98.2	98		30 (48)	130 (125)
PB165152BS	PB165152BS	2-Fluorophenol	150	145	97		15 (10)	110 (139)
		Phenol-d6	150	143	95		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.5	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.3	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	149	99		15 (44)	110 (137)
		Terphenyl-d14	100	101	101		30 (48)	130 (125)
PB165152BSD	PB165152BSD	2-Fluorophenol	150	124	83		15 (10)	110 (139)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	83.1	83		30 (49)	130 (133)
		2-Fluorobiphenyl	100	84.1	84		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	128	86		15 (44)	110 (137)
		Terphenyl-d14	100	86.5	87		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-02MS		**Client Sample ID: WB-310-BOTMS**						**DataFile: BF140496.D**			
Benzaldehyde	1900	0	0	ug/Kg	0	*			20 (10)	160 (86)	
Phenol	1900	0	1700	ug/Kg	89				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1700	ug/Kg	89				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1600	ug/Kg	84				70 (65)	130 (110)	
Acetophenone	1900	0	1600	ug/Kg	84				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Hexachloroethane	1900	0	1700	ug/Kg	89				20 (65)	160 (117)	
Nitrobenzene	1900	0	1600	ug/Kg	84				70 (70)	130 (119)	
Isophorone	1900	0	1700	ug/Kg	89				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1700	ug/Kg	89				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1700	ug/Kg	89				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (118)	
Naphthalene	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
4-Chloroaniline	1900	0	650	ug/Kg	34	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1600	ug/Kg	84				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1700	ug/Kg	89				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1700	ug/Kg	89				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3900	0	6600	ug/Kg	169	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1700	ug/Kg	89				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1700	ug/Kg	89				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1800	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	1900	0	1800	ug/Kg	95				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70 (70)	130 (125)	
3-Nitroaniline	1900	0	1100	ug/Kg	58	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1900	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	3900	0	3300	ug/Kg	85				20 (10)	160 (155)	
4-Nitrophenol	3900	0	3100	ug/Kg	79				20 (45)	160 (133)	
Dibenzofuran	1900	0	1700	ug/Kg	89				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	1700	ug/Kg	89				70 (55)	130 (128)	
Diethylphthalate	1900	0	1700	ug/Kg	89				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89				70 (71)	130 (108)	
Fluorene	1900	0	1700	ug/Kg	89				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1600	ug/Kg	84				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	1900	ug/Kg	100				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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	3900	0	3100	ug/Kg	79				20 (47)	160 (128)	
Phenanthrene	1900	0	1700	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1900	0	1800	ug/Kg	95				70 (62)	130 (124)	
Carbazole	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1700	ug/Kg	89				70 (69)	130 (118)	
Fluoranthene	1900	0	1500	ug/Kg	79				70 (44)	130 (125)	
Pyrene	1900	0	1900	ug/Kg	100				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1900	ug/Kg	100				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1300	ug/Kg	68	*			70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				70 (71)	130 (114)	
Chrysene	1900	0	1800	ug/Kg	95				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	1900	ug/Kg	100				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1900	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	2100	ug/Kg	111				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	2100	ug/Kg	111				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1900	ug/Kg	100				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1700	ug/Kg	89				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1400	ug/Kg	74				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1800	ug/Kg	95				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-02MSD		**Client Sample ID: WB-310-BOTMSD**						**DataFile: BF140497.D**			
Benzaldehyde	1900	0	210	ug/Kg	11	*	200	*	20 (10)	160 (86)	30 (20)
Phenol	1900	0	1900	ug/Kg	100		12		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	2000	ug/Kg	105		16		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	2000	ug/Kg	105		16		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1900	ug/Kg	100		17		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1900	ug/Kg	100		17		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1900	ug/Kg	100		17		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1900	ug/Kg	100		17		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1800	ug/Kg	95		12		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1900	ug/Kg	100		12		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1900	ug/Kg	100		17		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	2000	ug/Kg	105		16		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	2100	ug/Kg	111		22		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2400	ug/Kg	126		18		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1900	ug/Kg	100		12		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	2000	ug/Kg	105		16		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1900	ug/Kg	100		17		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	770	ug/Kg	41	*	19		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1900	ug/Kg	100		17		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1900	ug/Kg	100		17		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1900	ug/Kg	100		12		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1900	ug/Kg	100		12		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3900	0	7800	ug/Kg	200	*	17		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	2000	ug/Kg	105		16		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1900	ug/Kg	100		12		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1900	ug/Kg	100		12		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1900	ug/Kg	100		12		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	2000	ug/Kg	105		16		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	2000	ug/Kg	105		10		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	2100	ug/Kg	111		16		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		12		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	1300	ug/Kg	68	*	16		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	2200	ug/Kg	116		15		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3900	0	3900	ug/Kg	100		16		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3900	0	3500	ug/Kg	90		13		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	2000	ug/Kg	105		16		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100		12		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	2000	ug/Kg	105		16		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	2000	ug/Kg	105		16		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1900	ug/Kg	100		12		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	1800	ug/Kg	95		12		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	2200	ug/Kg	116		20		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	2100	ug/Kg	111		16		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	2100	ug/Kg	111		16		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	2100	ug/Kg	111		22		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2200	ug/Kg	116		15		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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	3900	0	3800	ug/Kg	97		20		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	2000	ug/Kg	105		16		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	2100	ug/Kg	111		16		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1900	ug/Kg	100		17		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	2000	ug/Kg	105		16		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1800	ug/Kg	95		18		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	2200	ug/Kg	116		15		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	2200	ug/Kg	116		15		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1500	ug/Kg	79		15		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	2100	ug/Kg	111		16		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	2000	ug/Kg	105		10		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111		10		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	2300	ug/Kg	121		19		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100		17		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95		7		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	2200	ug/Kg	116		15		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	2400	ug/Kg	126		13		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	2400	ug/Kg	126		13		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	2200	ug/Kg	116		15		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	2000	ug/Kg	105		16		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1700	ug/Kg	89		18		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	2100	ug/Kg	111		16		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140594.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165086BS	Benzaldehyde	1700	210	ug/Kg	12		*		20 (10)	160 (133)	
	Phenol	1700	1700	ug/Kg	100				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1700	ug/Kg	100				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1700	ug/Kg	100				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1800	ug/Kg	106				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1700	ug/Kg	100				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1700	ug/Kg	100				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1700	ug/Kg	100				70 (59)	130 (99)	
	2-Nitrophenol	1700	1700	ug/Kg	100				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1700	ug/Kg	100				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	840	ug/Kg	49		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1700	ug/Kg	100				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6200	ug/Kg	188		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Acenaphthylene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				20 (37)	160 (128)	
	4-Nitrophenol	3300	3300	ug/Kg	100				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				70 (60)	130 (106)	
	Diethylphthalate	1700	1700	ug/Kg	100				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1700	ug/Kg	100				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140594.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165086BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1900	ug/Kg	112				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Anthracene	1700	1800	ug/Kg	106				70 (61)	130 (105)	
	Carbazole	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				70 (58)	130 (104)	
	Fluoranthene	1700	1700	ug/Kg	100				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				70 (60)	130 (102)	
	Chrysene	1700	1700	ug/Kg	100				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1900	ug/Kg	112				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1500	ug/Kg	88				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140598.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BS	Benzaldehyde	50	38.8	ug/L	78				20 (10)	160 (162)	
	Phenol	50	52.3	ug/L	105				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	52.0	ug/L	104				70 (62)	130 (103)	
	2-Chlorophenol	50	52.9	ug/L	106				70 (70)	130 (117)	
	2-Methylphenol	50	52.0	ug/L	104				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	54.2	ug/L	108				70 (65)	130 (100)	
	Acetophenone	50	48.2	ug/L	96				70 (60)	130 (104)	
	3+4-Methylphenols	50	52.1	ug/L	104				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	52.0	ug/L	104				70 (57)	130 (107)	
	Hexachloroethane	50	49.8	ug/L	100				20 (76)	160 (118)	
	Nitrobenzene	50	46.7	ug/L	93				70 (58)	130 (106)	
	Isophorone	50	51.3	ug/L	103				70 (61)	130 (102)	
	2-Nitrophenol	50	52.1	ug/L	104				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	64.7	ug/L	129				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	50.9	ug/L	102				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	51.4	ug/L	103				70 (66)	130 (115)	
	Naphthalene	50	48.8	ug/L	98				70 (64)	130 (107)	
	4-Chloroaniline	50	22.3	ug/L	45		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	48.2	ug/L	96				70 (69)	130 (101)	
	Caprolactam	50	51.5	ug/L	103				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	51.3	ug/L	103				70 (65)	130 (114)	
	2-Methylnaphthalene	50	50.8	ug/L	102				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	190	ug/L	190		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	50.9	ug/L	102				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	50.0	ug/L	100				70 (70)	130 (106)	
	1,1-Biphenyl	50	49.4	ug/L	99				70 (72)	130 (98)	
	2-Chloronaphthalene	50	48.8	ug/L	98				70 (59)	130 (106)	
	2-Nitroaniline	50	51.1	ug/L	102				70 (73)	130 (114)	
	Dimethylphthalate	50	51.3	ug/L	103				70 (64)	130 (103)	
	Acenaphthylene	50	53.3	ug/L	107				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	49.3	ug/L	99				70 (64)	130 (110)	
	3-Nitroaniline	50	32.1	ug/L	64		*		70 (28)	130 (100)	
	Acenaphthene	50	51.2	ug/L	102				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	90.8	ug/L	91				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	50.3	ug/L	101				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	49.7	ug/L	99				70 (60)	130 (115)	
	Diethylphthalate	50	50.9	ug/L	102				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	49.5	ug/L	99				70 (61)	130 (104)	
	Fluorene	50	49.6	ug/L	99				70 (64)	130 (107)	
	4-Nitroaniline	50	49.3	ug/L	99				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	55.9	ug/L	112				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	51.0	ug/L	102				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	50.7	ug/L	101				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140598.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165152BS	Hexachlorobenzene	50	50.6	ug/L	101				70 (73)	130 (106)	
	Atrazine	50	61.4	ug/L	123				70 (76)	130 (120)	
	Pentachlorophenol	100	100	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	51.7	ug/L	103				70 (62)	130 (109)	
	Anthracene	50	54.0	ug/L	108				70 (65)	130 (110)	
	Carbazole	50	50.6	ug/L	101				70 (62)	130 (106)	
	Di-n-butylphthalate	50	51.5	ug/L	103				70 (64)	130 (106)	
	Fluoranthene	50	50.8	ug/L	102				70 (64)	130 (110)	
	Pyrene	50	50.7	ug/L	101				70 (71)	130 (103)	
	Butylbenzylphthalate	50	53.9	ug/L	108				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	33.1	ug/L	66		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	53.6	ug/L	107				70 (62)	130 (107)	
	Chrysene	50	51.9	ug/L	104				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	54.9	ug/L	110				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.4	ug/L	115				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	50.6	ug/L	101				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	54.3	ug/L	109				70 (77)	130 (105)	
	Benzo(a)pyrene	50	56.3	ug/L	113				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	50.8	ug/L	102				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	46.1	ug/L	92				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	49.0	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	46.3	ug/L	93				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	55.9	ug/L	112				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140600.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BSD	Benzaldehyde	50	34.3	ug/L	69	12			20 (10)	160 (162)	20 (20)
	Phenol	50	44.9	ug/L	90	15			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	44.2	ug/L	88	16			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	45.0	ug/L	90	16			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	44.5	ug/L	89	16			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	46.7	ug/L	93	15			70 (65)	130 (100)	20 (20)
	Acetophenone	50	41.4	ug/L	83	15			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	44.4	ug/L	89	16			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.3	ug/L	89	16			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	42.6	ug/L	85	16			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.9	ug/L	82	13			70 (58)	130 (106)	20 (20)
	Isophorone	50	44.5	ug/L	89	14			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	45.1	ug/L	90	14			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.3	ug/L	111	16			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.5	ug/L	89	13			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	45.0	ug/L	90	13			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.5	ug/L	85	14			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	21.5	ug/L	43	4	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	41.5	ug/L	83	15			70 (69)	130 (101)	20 (20)
	Caprolactam	50	44.0	ug/L	88	16			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	44.0	ug/L	88	15			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	43.9	ug/L	88	15			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	160	ug/L	160	17			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	44.5	ug/L	89	13			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	43.2	ug/L	86	15			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	43.6	ug/L	87	12			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	42.6	ug/L	85	14			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	44.6	ug/L	89	14			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	45.3	ug/L	91	12			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	46.5	ug/L	93	14			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	43.1	ug/L	86	13			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	28.8	ug/L	58	11	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	44.7	ug/L	89	14			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	77.0	ug/L	77	16			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	87.1	ug/L	87	14			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	43.9	ug/L	88	14			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	43.3	ug/L	87	14			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	44.3	ug/L	89	14			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	43.3	ug/L	87	13			70 (61)	130 (104)	20 (20)
	Fluorene	50	43.5	ug/L	87	13			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	43.1	ug/L	86	13			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	47.5	ug/L	95	16			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	44.6	ug/L	89	13			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	43.8	ug/L	88	15			70 (73)	130 (103)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140600.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BSD	Hexachlorobenzene	50	43.1	ug/L	86	16			70 (73)	130 (106)	20 (20)
	Atrazine	50	52.5	ug/L	105	16			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	87.2	ug/L	87	14			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.9	ug/L	90	14			70 (62)	130 (109)	20 (20)
	Anthracene	50	46.7	ug/L	93	14			70 (65)	130 (110)	20 (20)
	Carbazole	50	44.2	ug/L	88	14			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	45.0	ug/L	90	13			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.5	ug/L	89	13			70 (64)	130 (110)	20 (20)
	Pyrene	50	43.9	ug/L	88	14			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	46.8	ug/L	94	14			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	29.2	ug/L	58	13	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	46.9	ug/L	94	13			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.7	ug/L	89	15			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	47.7	ug/L	95	14			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	50.0	ug/L	100	14			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	42.4	ug/L	85	18			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	48.3	ug/L	97	12			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	49.0	ug/L	98	14			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	43.2	ug/L	86	16			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	43.3	ug/L	87	16			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	38.6	ug/L	77	18			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	43.2	ug/L	86	13			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	38.8	ug/L	78	18			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.3	ug/L	97	15			70 (63)	130 (116)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165086BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140502.D Lab Sample ID: PB165086BL

Instrument ID: BNA_F Date Extracted: 11/19/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/20/2024

Level: (low/med) LOW Time Analyzed: 16:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165086BS	PB165086BS	BF140594.D	11/25/2024
WB-310-TOP	P4892-01	BF140510.D	11/20/2024
WB-310-BOT	P4892-02	BF140495.D	11/20/2024
WB-310-BOTMS	P4892-02MS	BF140496.D	11/20/2024
WB-310-BOTMSD	P4892-02MSD	BF140497.D	11/20/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165152BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140601.D Lab Sample ID: PB165152BL

Instrument ID: BNA_F Date Extracted: 11/20/2024

Matrix: (soil/water) Water Date Analyzed: 11/25/2024

Level: (low/med) LOW Time Analyzed: 14:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165152BS	PB165152BS	BF140598.D	11/25/2024
PB165152BSD	PB165152BSD	BF140600.D	11/25/2024
WB-310-SW	P4892-04	BF140607.D	11/25/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

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

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140487.D DFTPP Injection Date: 11/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.3 (18.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140488.D	11/20/2024	09:31
WB-310-BOT	P4892-02	BF140495.D	11/20/2024	12:42
WB-310-BOTMS	P4892-02MS	BF140496.D	11/20/2024	13:08
WB-310-BOTMSD	P4892-02MSD	BF140497.D	11/20/2024	13:35

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140500.D DFTPP Injection Date: 11/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.7
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140501.D	11/20/2024	15:59
PB165086BL	PB165086BL	BF140502.D	11/20/2024	16:25
WB-310-TOP	P4892-01	BF140510.D	11/20/2024	20:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140526.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
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	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (18.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140589.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.5 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140590.D	11/25/2024	09:33
PB165086BS	PB165086BS	BF140594.D	11/25/2024	11:17
PB165152BS	PB165152BS	BF140598.D	11/25/2024	13:02
PB165152BSD	PB165152BSD	BF140600.D	11/25/2024	13:54
PB165152BL	PB165152BL	BF140601.D	11/25/2024	14:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140603.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.9
275	10.0 - 60.0% of mass 198	28
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	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140604.D	11/25/2024	15:49
WB-310-SW	P4892-04	BF140607.D	11/25/2024	17:15

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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	132364	6.875	490485	8.16	273054	9.92
	UPPER LIMIT	264728	7.375	980970	8.657	546108	10.416
	LOWER LIMIT	66182	6.375	245243	7.657	136527	9.416
	EPA SAMPLE NO.						
01	WB-310-BOT	111857	6.88	425828	8.15	234373	9.91
02	WB-310-BOTMS	124435	6.88	465260	8.16	249636	9.91
03	WB-310-BOTMSD	115233	6.88	427479	8.16	231375	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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	510213	11.404	268548	14.051	246006	15.539
	UPPER LIMIT	1020430	11.904	537096	14.551	492012	16.039
	LOWER LIMIT	255107	10.904	134274	13.551	123003	15.039
	EPA SAMPLE NO.						
01	WB-310-BOT	439035	11.40	271644	14.05	222745	15.55
02	WB-310-BOTMS	454496	11.40	229017	14.06	239777	15.57
03	WB-310-BOTMSD	409075	11.40	206876	14.05	225913	15.54

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140501.D Time Analyzed: 15:59

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	136554	6.875	508396	8.16	278192	9.91
	UPPER LIMIT	273108	7.375	1016790	8.657	556384	10.41
	LOWER LIMIT	68277	6.375	254198	7.657	139096	9.41
	EPA SAMPLE NO.						
01	WB-310-TOP	109793	6.88	377655	8.15	180123	9.90
02	PB165086BL	127581	6.87	485914	8.15	273616	9.90

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140501.D Time Analyzed: 15:59

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	526085	11.398	294226	14.045	277583	15.533
	UPPER LIMIT	1052170	11.898	588452	14.545	555166	16.033
	LOWER LIMIT	263043	10.898	147113	13.545	138792	15.033
	EPA SAMPLE NO.						
01	WB-310-TOP	278778	11.40	208770	14.05	217412	15.53
02	PB165086BL	524410	11.40	336229	14.05	269895	15.54

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	105131	6.869	390145	8.15	212616	9.91
	UPPER LIMIT	210262	7.369	780290	8.651	425232	10.41
	LOWER LIMIT	52565.5	6.369	195073	7.651	106308	9.41
	EPA SAMPLE NO.						
01	PB165086BS	95461	6.87	360433	8.15	204239	9.91
02	PB165152BL	105039	6.87	390263	8.15	219360	9.90
03	PB165152BS	99301	6.87	382645	8.15	214473	9.91
04	PB165152BSD	109034	6.87	414003	8.15	229665	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	399326	11.398	244297	14.051	211888	15.545
	UPPER LIMIT	798652	11.898	488594	14.551	423776	16.045
	LOWER LIMIT	199663	10.898	122149	13.551	105944	15.045
	EPA SAMPLE NO.						
01	PB165086BS	384268	11.40	226332	14.05	183684	15.55
02	PB165152BL	422337	11.40	238471	14.06	201118	15.58
03	PB165152BS	401581	11.40	233962	14.05	195258	15.56
04	PB165152BSD	432290	11.40	254104	14.05	215389	15.56

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	106607	6.869	393427	8.15	218835	9.91
	UPPER LIMIT	213214	7.369	786854	8.651	437670	10.41
	LOWER LIMIT	53303.5	6.369	196714	7.651	109418	9.41
	EPA SAMPLE NO.						
01	WB-310-SW	64480	6.87	239780	8.15	131138	9.90

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	396344	11.398	217927	14.051	192376	15.551
	UPPER LIMIT	792688	11.898	435854	14.551	384752	16.051
	LOWER LIMIT	198172	10.898	108964	13.551	96188	15.051
	EPA SAMPLE NO.						
01	WB-310-SW	245059	11.39	178129	14.05	139529	15.55

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

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

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	124		30 (18) - 130 (112)	83%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.1		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		30 (10) - 130 (116)	86%	SPK: 150
1718-51-0	Terphenyl-d14	85.6		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.869			
1146-65-2	Naphthalene-d8	486000	8.151			
15067-26-2	Acenaphthene-d10	274000	9.904			
1517-22-2	Phenanthrene-d10	524000	11.398			
1719-03-5	Chrysene-d12	336000	14.045			
1520-96-3	Perylene-d12	270000	15.539			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

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	136		15 (10) - 110 (139)	91%	SPK: 150
13127-88-3	Phenol-d6	131		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	98.2		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.869			
1146-65-2	Naphthalene-d8	390000	8.145			
15067-26-2	Acenaphthene-d10	219000	9.904			
1517-22-2	Phenanthrene-d10	422000	11.398			
1719-03-5	Chrysene-d12	238000	14.057			
1520-96-3	Perylene-d12	201000	15.58			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2.10	J		2.24	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB165152BL			SDG No.:	P4892
Lab Sample ID:	PB165152BL			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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	180	330	ug/Kg
108-95-2	Phenol	1700		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1700		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		90.8	170	ug/Kg
98-86-2	Acetophenone	1600		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	170	ug/Kg
78-59-1	Isophorone	1700		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.4	170	ug/Kg
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	840		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1700		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1700		81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1700		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		85.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		84.9	170	ug/Kg
1912-24-9	Atrazine	1900		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1700		83.9	170	ug/Kg
120-12-7	Anthracene	1800		84.3	170	ug/Kg
86-74-8	Carbazole	1700		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		84.2	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.6	170	ug/Kg
218-01-9	Chrysene	1700		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		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	1600		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1500		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		30 (18) - 130 (112)	94%	SPK: 150
13127-88-3	Phenol-d6	139		30 (15) - 130 (107)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.8		30 (18) - 130 (107)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.3		30 (20) - 130 (109)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		30 (10) - 130 (105)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	95500	6.869			
1146-65-2	Naphthalene-d8	360000	8.151			
15067-26-2	Acenaphthene-d10	204000	9.91			
1517-22-2	Phenanthrene-d10	384000	11.398			
1719-03-5	Chrysene-d12	226000	14.051			
1520-96-3	Perylene-d12	184000	15.551			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	38.8		4.00	10.0	ug/L
108-95-2	Phenol	52.3		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	52.0		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	52.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	52.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	54.2		1.40	5.00	ug/L
98-86-2	Acetophenone	48.2		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.1		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	52.0		1.50	2.50	ug/L
67-72-1	Hexachloroethane	49.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.7		1.30	5.00	ug/L
78-59-1	Isophorone	51.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	52.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	64.7		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	50.9		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.4		0.88	5.00	ug/L
91-20-3	Naphthalene	48.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	22.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	48.2		1.30	5.00	ug/L
105-60-2	Caprolactam	51.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	50.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	49.4		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	48.8		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.1		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	51.3		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	53.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.3		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	32.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.8	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	50.3		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	50.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.5		0.98	5.00	ug/L
86-73-7	Fluorene	49.6		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	49.3		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	55.9		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	51.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	50.6		1.10	5.00	ug/L
1912-24-9	Atrazine	61.4		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	51.7		0.89	5.00	ug/L
120-12-7	Anthracene	54.0		1.10	5.00	ug/L
86-74-8	Carbazole	50.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	5.00	ug/L
206-44-0	Fluoranthene	50.8		1.30	5.00	ug/L
129-00-0	Pyrene	50.7		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.9		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.1		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	53.6		0.94	5.00	ug/L
218-01-9	Chrysene	51.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	54.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.4		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	50.6		1.10	5.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	54.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	56.3		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	50.8		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.1		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	46.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	55.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	145		15 (10) - 110 (139)	97%	SPK: 150
13127-88-3	Phenol-d6	143		15 (10) - 110 (134)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.5		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.3		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		15 (44) - 110 (137)	99%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (48) - 130 (125)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99300	6.869			
1146-65-2	Naphthalene-d8	383000	8.151			
15067-26-2	Acenaphthene-d10	214000	9.91			
1517-22-2	Phenanthrene-d10	402000	11.398			
1719-03-5	Chrysene-d12	234000	14.051			
1520-96-3	Perylene-d12	195000	15.557			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	34.3		4.00	10.0	ug/L
108-95-2	Phenol	44.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	45.0		0.71	5.00	ug/L
95-48-7	2-Methylphenol	44.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.7		1.40	5.00	ug/L
98-86-2	Acetophenone	41.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	44.4		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.3		1.50	2.50	ug/L
67-72-1	Hexachloroethane	42.6		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.9		1.30	5.00	ug/L
78-59-1	Isophorone	44.5		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	45.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.3		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.5		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.0		0.88	5.00	ug/L
91-20-3	Naphthalene	42.5		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	21.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		1.30	5.00	ug/L
105-60-2	Caprolactam	44.0		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.0		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	43.9		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	44.5		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	43.2		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	43.6		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.6		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	44.6		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	45.3		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.5		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.1		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	28.8		1.40	5.00	ug/L
83-32-9	Acenaphthene	44.7		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	77.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	87.1	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	43.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	43.3		1.50	5.00	ug/L
84-66-2	Diethylphthalate	44.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.3		0.98	5.00	ug/L
86-73-7	Fluorene	43.5		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	43.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	47.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.8		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	43.1		1.10	5.00	ug/L
1912-24-9	Atrazine	52.5		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	87.2	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	44.9		0.89	5.00	ug/L
120-12-7	Anthracene	46.7		1.10	5.00	ug/L
86-74-8	Carbazole	44.2		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	44.5		1.30	5.00	ug/L
129-00-0	Pyrene	43.9		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.8		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.9		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	47.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	50.0		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.4		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43.2		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	38.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	38.8		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		15 (10) - 110 (139)	83%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.1		30 (49) - 130 (133)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.1		30 (52) - 130 (132)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.869			
1146-65-2	Naphthalene-d8	414000	8.151			
15067-26-2	Acenaphthene-d10	230000	9.91			
1517-22-2	Phenanthrene-d10	432000	11.398			
1719-03-5	Chrysene-d12	254000	14.051			
1520-96-3	Perylene-d12	215000	15.557			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

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	1700		96.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		97.0	200	ug/Kg
95-57-8	2-Chlorophenol	1700		96.8	200	ug/Kg
95-48-7	2-Methylphenol	1600		93.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		110	200	ug/Kg
98-86-2	Acetophenone	1600		100	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		92.5	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		46.7	92.7	ug/Kg
67-72-1	Hexachloroethane	1700		96.2	200	ug/Kg
98-95-3	Nitrobenzene	1600		110	200	ug/Kg
78-59-1	Isophorone	1700		98.0	200	ug/Kg
88-75-5	2-Nitrophenol	1700		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		99.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		87.5	200	ug/Kg
91-20-3	Naphthalene	1600		95.7	200	ug/Kg
106-47-8	4-Chloroaniline	650		95.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	1600		96.5	200	ug/Kg
105-60-2	Caprolactam	1600		100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		89.8	200	ug/Kg
91-57-6	2-Methylnaphthalene	1700		95.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6600	E	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		82.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		85.7	200	ug/Kg
92-52-4	1,1-Biphenyl	1700		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1700		96.5	200	ug/Kg
88-74-4	2-Nitroaniline	1700		110	200	ug/Kg
131-11-3	Dimethylphthalate	1800		94.7	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		96.4	200	ug/Kg
99-09-2	3-Nitroaniline	1100		100	200	ug/Kg
83-32-9	Acenaphthene	1900		94.0	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	280	380	ug/Kg
100-02-7	4-Nitrophenol	3100		130	380	ug/Kg
132-64-9	Dibenzofuran	1700		97.8	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		99.9	200	ug/Kg
84-66-2	Diethylphthalate	1700		92.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		99.2	200	ug/Kg
86-73-7	Fluorene	1700		99.1	200	ug/Kg
100-01-6	4-Nitroaniline	1600		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		94.6	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		91.4	200	ug/Kg
118-74-1	Hexachlorobenzene	1700		98.5	200	ug/Kg
1912-24-9	Atrazine	1900		110	200	ug/Kg
87-86-5	Pentachlorophenol	3100		89.6	380	ug/Kg
85-01-8	Phenanthrene	1700		97.3	200	ug/Kg
120-12-7	Anthracene	1800		97.8	200	ug/Kg
86-74-8	Carbazole	1600		93.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	1700		97.7	200	ug/Kg
206-44-0	Fluoranthene	1500		94.7	200	ug/Kg
129-00-0	Pyrene	1900		96.2	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		110	380	ug/Kg
56-55-3	Benzo(a)anthracene	1800		93.5	200	ug/Kg
218-01-9	Chrysene	1800		92.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		94.0	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		95.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		90.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		94.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		92.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		100	200	ug/Kg
123-91-1	1,4-Dioxane	1400		130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		86.6	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.7		30 (18) - 130 (112)	60%	SPK: 150
13127-88-3	Phenol-d6	86.7		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.4		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.6		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	73.3		30 (10) - 130 (105)	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	465000	8.157			
15067-26-2	Acenaphthene-d10	250000	9.91			
1517-22-2	Phenanthrene-d10	454000	11.398			
1719-03-5	Chrysene-d12	229000	14.057			
1520-96-3	Perylene-d12	240000	15.568			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	210	380	ug/Kg
108-95-2	Phenol	1900		96.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2000		97.1	200	ug/Kg
95-57-8	2-Chlorophenol	2000		96.9	200	ug/Kg
95-48-7	2-Methylphenol	1900		93.5	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		110	200	ug/Kg
98-86-2	Acetophenone	1900		100	200	ug/Kg
65794-96-9	3+4-Methylphenols	1900		92.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		46.8	92.8	ug/Kg
67-72-1	Hexachloroethane	1900		96.3	200	ug/Kg
98-95-3	Nitrobenzene	1900		110	200	ug/Kg
78-59-1	Isophorone	2000		98.2	200	ug/Kg
88-75-5	2-Nitrophenol	2100		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		99.6	200	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		87.6	200	ug/Kg
91-20-3	Naphthalene	1900		95.8	200	ug/Kg
106-47-8	4-Chloroaniline	770		95.8	200	ug/Kg
87-68-3	Hexachlorobutadiene	1900		96.7	200	ug/Kg
105-60-2	Caprolactam	1900		100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		89.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	1900		95.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7800	E	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		82.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		85.9	200	ug/Kg
92-52-4	1,1-Biphenyl	1900		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1900		96.7	200	ug/Kg
88-74-4	2-Nitroaniline	2000		110	200	ug/Kg
131-11-3	Dimethylphthalate	2000		94.8	200	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		96.5	200	ug/Kg
99-09-2	3-Nitroaniline	1300		100	200	ug/Kg
83-32-9	Acenaphthene	2200		94.1	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3900	E	280	380	ug/Kg
100-02-7	4-Nitrophenol	3500	E	130	380	ug/Kg
132-64-9	Dibenzofuran	2000		97.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		100	200	ug/Kg
84-66-2	Diethylphthalate	2000		92.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		99.3	200	ug/Kg
86-73-7	Fluorene	1900		99.2	200	ug/Kg
100-01-6	4-Nitroaniline	1800		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		94.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		91.5	200	ug/Kg
118-74-1	Hexachlorobenzene	2100		98.6	200	ug/Kg
1912-24-9	Atrazine	2200		110	200	ug/Kg
87-86-5	Pentachlorophenol	3800	E	89.7	380	ug/Kg
85-01-8	Phenanthrene	2000		97.5	200	ug/Kg
120-12-7	Anthracene	2100		97.9	200	ug/Kg
86-74-8	Carbazole	1900		93.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	2000		97.8	200	ug/Kg
206-44-0	Fluoranthene	1800		94.8	200	ug/Kg
129-00-0	Pyrene	2200		96.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	2200		110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1500		110	380	ug/Kg
56-55-3	Benzo(a)anthracene	2100		93.6	200	ug/Kg
218-01-9	Chrysene	2000		92.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	2300		130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		94.1	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		95.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	2200		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		90.6	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		94.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		92.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		100	200	ug/Kg
123-91-1	1,4-Dioxane	1700		130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		86.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	70%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.2		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.4		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	85.7		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.875			
1146-65-2	Naphthalene-d8	427000	8.157			
15067-26-2	Acenaphthene-d10	231000	9.91			
1517-22-2	Phenanthrene-d10	409000	11.398			
1719-03-5	Chrysene-d12	207000	14.045			
1520-96-3	Perylene-d12	226000	15.539			

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF1405
35.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.454	0.477	0.493	8.46
3)		Pyridine		0.981	1.019	1.121	1.192	1.062	1.087	1.128	1.084	6.54
4)		n-Nitrosodimet...		0.616	0.611	0.661	0.648	0.632	0.632	0.660	0.637	3.15
5)	S	2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.127	1.091	1.172	5.40
6)		Aniline		1.159	1.195	1.133	1.251	1.042	1.020	0.835	1.091	12.73
7)	S	Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.470	1.407	1.550	7.14
8)		2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.208	1.145	1.261	6.51
9)		Benzaldehyde			1.007	0.970	0.738	0.752	0.635		0.820	19.55
10)	C	Phenol		1.723	1.648	1.620	1.667	1.514	1.490	1.417	1.583	6.98
11)		bis(2-Chloroet...		1.292	1.242	1.214	1.246	1.146	1.200	1.138	1.211	4.56
12)		1,3-Dichlorobe...		1.600	1.493	1.433	1.399	1.345	1.361	1.288	1.417	7.31
13)	C	1,4-Dichlorobe...		1.613	1.501	1.456	1.428	1.358	1.372	1.314	1.435	7.04
14)		1,2-Dichlorobe...		1.503	1.434	1.375	1.355	1.268	1.266	1.210	1.344	7.71
15)		Benzyl Alcohol		1.234	1.174	1.161	1.224	1.113	1.090	1.048	1.149	5.98
16)		2,2'-oxybis(1-...		1.650	1.480	1.434	1.463	1.335	1.377	1.276	1.431	8.43
17)		2-Methylphenol		1.121	1.034	1.033	1.042	0.956	0.959	0.922	1.009	6.74
18)		Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.510	0.499	0.536	6.17
19)	P	n-Nitroso-di-n...	0.972	1.002	0.949	0.916	0.946	0.856	0.857	0.829	0.916	6.82
20)		3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.209	1.154	1.298	8.98
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.536	0.511	0.494	0.481	0.463	0.460	0.468	0.488	5.75
23)	S	Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.377	0.383	0.391	3.21
24)		Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.391	0.392	0.404	4.35
25)		Isophorone		0.694	0.654	0.657	0.662	0.629	0.634	0.635	0.652	3.44
26)	C	2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.180	0.180	0.179	2.17
27)		2,4-Dimethylph...		0.221	0.214	0.213	0.224	0.204	0.207	0.218	0.214	3.40
28)		bis(2-Chloroet...		0.428	0.408	0.403	0.397	0.378	0.384	0.383	0.397	4.37
29)	C	2,4-Dichloroph...		0.301	0.291	0.290	0.282	0.277	0.274	0.271	0.284	3.82
30)		1,2,4-Trichlor...		0.342	0.338	0.332	0.317	0.317	0.312	0.312	0.324	3.91
31)		Naphthalene		1.116	1.075	1.062	1.013	0.993	0.983	0.970	1.030	5.32
32)		Benzoic acid			0.101	0.126	0.177	0.185	0.192	0.202	0.164	24.72
33)		4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	0.289	0.308	3.71
34)	C	Hexachlorobuta...		0.227	0.225	0.219	0.212	0.209	0.207	0.204	0.215	4.15
35)		Caprolactam		0.091	0.091	0.091	0.090	0.085	0.085	0.083	0.088	3.99
36)	C	4-Chloro-3-met...		0.348	0.318	0.317	0.327	0.307	0.307	0.301	0.318	4.95
37)		2-Methylnaphth...		0.724	0.680	0.669	0.650	0.623	0.620	0.615	0.654	6.09
38)		1-Methylnaphth...		0.707	0.665	0.659	0.638	0.611	0.608	0.601	0.641	5.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.635	0.604	0.606	0.563	0.561	0.565	0.565	0.586	5.02
41)	P	Hexachlorocycl...		0.055	0.090	0.114	0.121	0.129	0.133	0.107	27.80
42)	S	2,4,6-Tribromo...	0.222	0.209	0.220	0.216	0.210	0.210	0.211	0.214	2.52
43)	C	2,4,6-Trichlor...	0.384	0.358	0.375	0.366	0.364	0.360	0.365	0.367	2.45
44)		2,4,5-Trichlor...	0.402	0.396	0.410	0.404	0.390	0.397	0.392	0.399	1.80
45)	S	2-Fluorobiphenyl	1.550	1.402	1.423	1.291	1.255	1.240	1.235	1.342	8.90
46)		1,1'-Biphenyl	1.666	1.530	1.563	1.447	1.427	1.418	1.403	1.493	6.50
47)		2-Chloronaphth...	1.251	1.145	1.162	1.106	1.082	1.084	1.091	1.131	5.39
48)		2-Nitroaniline	0.367	0.351	0.379	0.367	0.363	0.357	0.359	0.363	2.50
49)		Acenaphthylene	1.890	1.765	1.808	1.662	1.628	1.623	1.590	1.710	6.58
50)		Dimethylphthalate	1.455	1.329	1.346	1.299	1.267	1.270	1.254	1.317	5.28
51)		2,6-Dinitrotol...	0.314	0.299	0.307	0.301	0.291	0.293	0.286	0.299	3.24
52)	C	Acenaphthene	1.182	1.110	1.134	1.063	1.052	1.037	1.026	1.086	5.29
53)		3-Nitroaniline	0.307	0.297	0.309	0.300	0.289	0.281	0.262	0.292	5.71
54)	P	2,4-Dinitrophenol		0.057	0.089	0.140	0.145	0.150	0.154	0.122	32.70
55)		Dibenzofuran	1.898	1.739	1.739	1.622	1.559	1.531	1.509	1.657	8.53
56)	P	4-Nitrophenol		0.160	0.195	0.207	0.212	0.214	0.208	0.199	10.31
57)		2,4-Dinitrotol...	0.403	0.403	0.416	0.404	0.386	0.389	0.379	0.397	3.24
58)		Fluorene	1.509	1.409	1.399	1.295	1.263	1.224	1.210	1.330	8.37
59)		2,3,4,6-Tetrac...	0.307	0.296	0.308	0.312	0.305	0.305	0.312	0.306	1.72
60)		Diethylphthalate	1.495	1.375	1.393	1.311	1.292	1.268	1.234	1.338	6.66
61)		4-Chlorophenyl...	0.739	0.682	0.685	0.639	0.619	0.605	0.599	0.653	7.90
62)		4-Nitroaniline	0.307	0.301	0.315	0.312	0.310	0.309	0.291	0.306	2.67
63)		Azobenzene	1.406	1.320	1.320	1.235	1.205	1.206	1.179	1.267	6.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.073	0.090	0.110	0.110	0.117	0.113	0.102	16.74
66)	c	n-Nitrosodiphe...	0.632	0.618	0.597	0.578	0.577	0.580	0.558	0.591	4.39
67)		4-Bromophenyl-...	0.218	0.215	0.206	0.200	0.200	0.205	0.198	0.206	3.79
68)		Hexachlorobenzene	0.257	0.240	0.239	0.233	0.232	0.236	0.232	0.238	3.65
69)		Atrazine	0.181	0.171	0.131	0.140	0.147	0.196	0.198	0.166	16.37
70)	C	Pentachlorophenol		0.071	0.090	0.116	0.115	0.121	0.118	0.105	19.24
71)		Phenanthrene	1.074	1.020	0.970	0.944	0.925	0.916	0.881	0.961	6.87
72)		Anthracene	1.038	0.994	0.958	0.925	0.905	0.904	0.859	0.940	6.47
73)		Carbazole	1.004	0.949	0.930	0.889	0.876	0.862	0.821	0.905	6.75
74)		Di-n-butylphth...	1.144	1.075	1.074	1.023	1.021	1.007	0.967	1.044	5.56
75)	C	Fluoranthene	1.186	1.111	1.114	1.014	0.999	0.962	0.921	1.044	9.11
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.268	0.422	0.296	0.575	0.734	1.025	0.751	0.581	47.31
78)		Pyrene	1.905	1.801	1.897	1.853	1.791	1.898	1.799	1.849	2.79
79)	S	Terphenyl-d14	1.351	1.254	1.308	1.283	1.228	1.313	1.254	1.284	3.31
80)		Butylbenzylpht...	0.676	0.644	0.694	0.679	0.655	0.674	0.641	0.666	2.96
81)		Benzo(a)anthra...	1.409	1.319	1.379	1.286	1.295	1.338	1.242	1.324	4.30
82)		3,3'-Dichlorob...	0.375	0.383	0.393	0.413	0.406	0.419	0.394	0.397	4.03
83)		Chrysene	1.354	1.263	1.218	1.201	1.137	1.173	1.128	1.211	6.50
84)		Bis(2-ethylhex...	0.904	0.828	0.862	0.833	0.824	0.841	0.797	0.841	4.00
85)	c	Di-n-octyl pht...	1.198	1.133	1.147	1.132	1.147	1.169	1.121	1.150	2.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.283	1.299	1.304	1.306	1.409	1.313	1.303	4.51
88)		Benzo(b)fluora...	1.347	1.256	1.380	1.186	1.248	1.207	1.168	1.256	6.41
89)		Benzo(k)fluora...	1.243	1.236	1.059	1.101	1.022	1.055	0.980	1.099	9.34
90)	C	Benzo(a)pyrene	1.062	1.050	1.063	1.007	0.998	1.014	0.957	1.021	3.81
91)		Dibenzo(a,h)an...	1.015	1.038	1.063	1.068	1.075	1.149	1.064	1.067	3.90
92)		Benzo(g,h,i)pe...	1.033	1.090	1.078	1.085	1.094	1.161	1.083	1.089	3.48

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.183		1.0	
Benzaldehyde	0.951	1.434		50.8	
Phenol-d6	1.587	1.579		-0.5	
Phenol	1.674	1.657		-1.0	20.0
bis(2-Chloroethyl)ether	1.268	1.277		0.7	
2-Chlorophenol	1.258	1.268		0.8	
2-Methylphenol	1.035	1.032		-0.3	
2,2-oxybis(1-Chloropropane)	1.752	1.634		-6.7	
Acetophenone	0.465	0.469		0.9	
3+4-Methylphenols	1.295	1.290		-0.4	
n-Nitroso-di-n-propylamine	0.959	0.916	0.050	-4.5	
Nitrobenzene-d5	0.384	0.392		2.1	
Hexachloroethane	0.520	0.535		2.9	
Nitrobenzene	0.400	0.409		2.3	
Isophorone	0.680	0.680		0.0	
2-Nitrophenol	0.177	0.189		6.8	20.0
2,4-Dimethylphenol	0.227	0.234		3.1	
bis(2-Chloroethoxy)methane	0.417	0.423		1.4	
2,4-Dichlorophenol	0.281	0.294		4.6	20.0
Naphthalene	1.015	1.040		2.5	
4-Chloroaniline	0.353	0.342		-3.1	
Hexachlorobutadiene	0.199	0.209		5.0	20.0
Caprolactam	0.093	0.096		3.2	
4-Chloro-3-methylphenol	0.311	0.322		3.5	20.0
2-Methylnaphthalene	0.651	0.663		1.8	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.377		3.9	20.0
2-Fluorobiphenyl	1.244	1.282		3.1	
2,4,5-Trichlorophenol	0.397	0.418		5.3	
1,1-Biphenyl	1.455	1.501		3.2	
2-Chloronaphthalene	1.108	1.144		3.2	
2-Nitroaniline	0.368	0.375		1.9	
Dimethylphthalate	1.304	1.342		2.9	
Acenaphthylene	1.677	1.721		2.6	
2,6-Dinitrotoluene	0.297	0.314		5.7	
3-Nitroaniline	0.312	0.318		1.9	
Acenaphthene	1.133	1.176		3.8	20.0
2,4-Dinitrophenol	0.153	0.154	0.050	0.7	
4-Nitrophenol	0.228	0.216	0.050	-5.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.638		2.2	
2,4-Dinitrotoluene	0.391	0.410		4.9	
Diethylphthalate	1.333	1.357		1.8	
4-Chlorophenyl-phenylether	0.625	0.650		4.0	
Fluorene	1.267	1.310		3.4	
4-Nitroaniline	0.319	0.317		-0.6	
4,6-Dinitro-2-methylphenol	0.108	0.121		12.0	
n-Nitrosodiphenylamine	0.578	0.600		3.8	20.0
2,4,6-Tribromophenol	0.199	0.210		5.5	
4-Bromophenyl-phenylether	0.200	0.207		3.5	
Hexachlorobenzene	0.225	0.237		5.3	
Atrazine	0.175	0.161		-8.0	
Pentachlorophenol	0.121	0.122		0.8	20.0
Phenanthrene	0.940	0.958		1.9	
Anthracene	0.921	0.940		2.1	
Carbazole	0.909	0.919		1.1	
Di-n-butylphthalate	1.091	1.108		1.6	
Fluoranthene	1.054	1.040		-1.3	20.0
Pyrene	1.711	1.993		16.5	
Terphenyl-d14	1.152	1.323		14.8	
Butylbenzylphthalate	0.657	0.733		11.6	
3,3-Dichlorobenzidine	0.418	0.425		1.7	
Benzo(a)anthracene	1.314	1.367		4.0	
Chrysene	1.199	1.229		2.5	
Bis(2-ethylhexyl)phthalate	0.877	0.895		2.1	
Di-n-octyl phthalate	1.235	1.193		-3.4	20.0
Benzo(b)fluoranthene	1.308	1.186		-9.3	
Benzo(k)fluoranthene	1.069	1.134		6.1	
Benzo(a)pyrene	1.016	1.047		3.1	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.428		15.6	
Dibenzo(a,h)anthracene	1.021	1.170		14.6	
Benzo(g,h,i)perylene	1.044	1.208		15.7	
1,2,4,5-Tetrachlorobenzene	0.553	0.581		5.1	
1,4-Dioxane	0.522	0.523		0.2	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.321		2.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 15:59

Lab File ID: BF140501.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.206		3.0	
Benzaldehyde	0.951	1.414		48.7	
Phenol-d6	1.587	1.601		0.9	
Phenol	1.674	1.671		-0.2	20.0
bis(2-Chloroethyl)ether	1.268	1.316		3.8	
2-Chlorophenol	1.258	1.293		2.8	
2-Methylphenol	1.035	1.046		1.1	
2,2-oxybis(1-Chloropropane)	1.752	1.618		-7.6	
Acetophenone	0.465	0.469		0.9	
3+4-Methylphenols	1.295	1.291		-0.3	
n-Nitroso-di-n-propylamine	0.959	0.908	0.050	-5.3	
Nitrobenzene-d5	0.384	0.393		2.3	
Hexachloroethane	0.520	0.541		4.0	
Nitrobenzene	0.400	0.413		3.3	
Isophorone	0.680	0.677		-0.4	
2-Nitrophenol	0.177	0.190		7.3	20.0
2,4-Dimethylphenol	0.227	0.234		3.1	
bis(2-Chloroethoxy)methane	0.417	0.417		0.0	
2,4-Dichlorophenol	0.281	0.294		4.6	20.0
Naphthalene	1.015	1.038		2.3	
4-Chloroaniline	0.353	0.305		-13.6	
Hexachlorobutadiene	0.199	0.207		4.0	20.0
Caprolactam	0.093	0.095		2.2	
4-Chloro-3-methylphenol	0.311	0.317		1.9	20.0
2-Methylnaphthalene	0.651	0.658		1.1	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.378		4.1	20.0
2-Fluorobiphenyl	1.244	1.264		1.6	
2,4,5-Trichlorophenol	0.397	0.416		4.8	
1,1-Biphenyl	1.455	1.494		2.7	
2-Chloronaphthalene	1.108	1.143		3.2	
2-Nitroaniline	0.368	0.382		3.8	
Dimethylphthalate	1.304	1.338		2.6	
Acenaphthylene	1.677	1.745		4.1	
2,6-Dinitrotoluene	0.297	0.313		5.4	
3-Nitroaniline	0.312	0.313		0.3	
Acenaphthene	1.133	1.181		4.2	20.0
2,4-Dinitrophenol	0.153	0.153	0.050	0.0	
4-Nitrophenol	0.228	0.220	0.050	-3.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 15:59

Lab File ID: BF140501.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.635		2.0	
2,4-Dinitrotoluene	0.391	0.418		6.9	
Diethylphthalate	1.333	1.348		1.1	
4-Chlorophenyl-phenylether	0.625	0.637		1.9	
Fluorene	1.267	1.308		3.2	
4-Nitroaniline	0.319	0.312		-2.2	
4,6-Dinitro-2-methylphenol	0.108	0.122		13.0	
n-Nitrosodiphenylamine	0.578	0.589		1.9	20.0
2,4,6-Tribromophenol	0.199	0.209		5.0	
4-Bromophenyl-phenylether	0.200	0.205		2.5	
Hexachlorobenzene	0.225	0.230		2.2	
Atrazine	0.175	0.150		-14.3	
Pentachlorophenol	0.121	0.121		0.0	20.0
Phenanthrene	0.940	0.938		-0.2	
Anthracene	0.921	0.933		1.3	
Carbazole	0.909	0.912		0.3	
Di-n-butylphthalate	1.091	1.080		-1.0	
Fluoranthene	1.054	1.030		-2.3	20.0
Pyrene	1.711	1.843		7.7	
Terphenyl-d14	1.152	1.233		7.0	
Butylbenzylphthalate	0.657	0.698		6.2	
3,3-Dichlorobenzidine	0.418	0.413		-1.2	
Benzo(a)anthracene	1.314	1.378		4.9	
Chrysene	1.199	1.184		-1.3	
Bis(2-ethylhexyl)phthalate	0.877	0.903		3.0	
Di-n-octyl phthalate	1.235	1.287		4.2	20.0
Benzo(b)fluoranthene	1.308	1.302		-0.5	
Benzo(k)fluoranthene	1.069	1.034		-3.3	
Benzo(a)pyrene	1.016	1.037		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.266		2.5	
Dibenzo(a,h)anthracene	1.021	1.045		2.4	
Benzo(g,h,i)perylene	1.044	1.064		1.9	
1,2,4,5-Tetrachlorobenzene	0.553	0.576		4.2	
1,4-Dioxane	0.522	0.543		4.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.330		5.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.119		-4.5	
Benzaldehyde	0.820	0.779		-5.0	
Phenol-d6	1.550	1.507		-2.8	
Phenol	1.583	1.586		0.2	20.0
bis(2-Chloroethyl)ether	1.211	1.180		-2.6	
2-Chlorophenol	1.261	1.243		-1.4	
2-Methylphenol	1.010	0.988		-2.2	
2,2-oxybis(1-Chloropropane)	1.431	1.423		-0.6	
Acetophenone	0.488	0.461		-5.5	
3+4-Methylphenols	1.298	1.252		-3.5	
n-Nitroso-di-n-propylamine	0.916	0.880	0.050	-3.9	
Nitrobenzene-d5	0.391	0.377		-3.6	
Hexachloroethane	0.536	0.520		-3.0	
Nitrobenzene	0.404	0.386		-4.5	
Isophorone	0.652	0.631		-3.2	
2-Nitrophenol	0.179	0.180		0.6	20.0
2,4-Dimethylphenol	0.214	0.218		1.9	
bis(2-Chloroethoxy)methane	0.397	0.394		-0.8	
2,4-Dichlorophenol	0.284	0.282		-0.7	20.0
Naphthalene	1.030	1.017		-1.3	
4-Chloroaniline	0.308	0.331		7.5	
Hexachlorobutadiene	0.215	0.212		-1.4	20.0
Caprolactam	0.088	0.090		2.3	
4-Chloro-3-methylphenol	0.318	0.314		-1.3	20.0
2-Methylnaphthalene	0.654	0.650		-0.6	
Hexachlorocyclopentadiene	0.107	0.100	0.050	-6.5	
2,4,6-Trichlorophenol	0.367	0.368		0.3	20.0
2-Fluorobiphenyl	1.342	1.315		-2.0	
2,4,5-Trichlorophenol	0.399	0.405		1.5	
1,1-Biphenyl	1.493	1.483		-0.7	
2-Chloronaphthalene	1.131	1.133		0.2	
2-Nitroaniline	0.363	0.361		-0.6	
Dimethylphthalate	1.317	1.305		-0.9	
Acenaphthylene	1.710	1.718		0.5	
2,6-Dinitrotoluene	0.299	0.304		1.7	
3-Nitroaniline	0.292	0.298		2.1	
Acenaphthene	1.086	1.091		0.5	20.0
2,4-Dinitrophenol	0.122	0.127	0.050	4.1	
4-Nitrophenol	0.199	0.190	0.050	-4.5	

Form VII SV-1

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.654		-0.2	
2,4-Dinitrotoluene	0.397	0.407		2.5	
Diethylphthalate	1.338	1.312		-1.9	
4-Chlorophenyl-phenylether	0.653	0.649		-0.6	
Fluorene	1.330	1.315		-1.1	
4-Nitroaniline	0.306	0.308		0.7	
4,6-Dinitro-2-methylphenol	0.102	0.105		2.9	
n-Nitrosodiphenylamine	0.591	0.579		-2.0	20.0
2,4,6-Tribromophenol	0.214	0.210		-1.9	
4-Bromophenyl-phenylether	0.206	0.203		-1.5	
Hexachlorobenzene	0.238	0.233		-2.1	
Atrazine	0.166	0.168		1.2	
Pentachlorophenol	0.105	0.110		4.8	20.0
Phenanthrene	0.961	0.960		-0.1	
Anthracene	0.940	0.932		-0.9	
Carbazole	0.905	0.906		0.1	
Di-n-butylphthalate	1.044	1.047		0.3	
Fluoranthene	1.044	1.089		4.3	20.0
Pyrene	1.849	1.784		-3.5	
Terphenyl-d14	1.284	1.204		-6.2	
Butylbenzylphthalate	0.666	0.675		1.4	
3,3-Dichlorobenzidine	0.397	0.378		-4.8	
Benzo(a)anthracene	1.324	1.309		-1.1	
Chrysene	1.211	1.194		-1.4	
Bis(2-ethylhexyl)phthalate	0.841	0.854		1.5	
Di-n-octyl phthalate	1.150	1.214		5.6	20.0
Benzo(b)fluoranthene	1.256	1.296		3.2	
Benzo(k)fluoranthene	1.099	1.007		-8.4	
Benzo(a)pyrene	1.021	1.000		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.273		-2.3	
Dibenzo(a,h)anthracene	1.067	1.042		-2.3	
Benzo(g,h,i)perylene	1.089	1.078		-1.0	
1,2,4,5-Tetrachlorobenzene	0.586	0.586		0.0	
1,4-Dioxane	0.493	0.469		-4.9	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.320		4.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.153		-1.6	
Benzaldehyde	0.820	0.848		3.4	
Phenol-d6	1.550	1.521		-1.9	
Phenol	1.583	1.580		-0.2	20.0
bis(2-Chloroethyl)ether	1.211	1.199		-1.0	
2-Chlorophenol	1.261	1.217		-3.5	
2-Methylphenol	1.010	1.019		0.9	
2,2-oxybis(1-Chloropropane)	1.431	1.429		-0.1	
Acetophenone	0.488	0.464		-4.9	
3+4-Methylphenols	1.298	1.259		-3.0	
n-Nitroso-di-n-propylamine	0.916	0.876	0.050	-4.4	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.521		-2.8	
Nitrobenzene	0.404	0.392		-3.0	
Isophorone	0.652	0.640		-1.8	
2-Nitrophenol	0.179	0.180		0.6	20.0
2,4-Dimethylphenol	0.214	0.224		4.7	
bis(2-Chloroethoxy)methane	0.397	0.393		-1.0	
2,4-Dichlorophenol	0.284	0.284		0.0	20.0
Naphthalene	1.030	1.014		-1.6	
4-Chloroaniline	0.308	0.335		8.8	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
Caprolactam	0.088	0.088		0.0	
4-Chloro-3-methylphenol	0.318	0.313		-1.6	20.0
2-Methylnaphthalene	0.654	0.641		-2.0	
Hexachlorocyclopentadiene	0.107	0.106	0.050	-0.9	
2,4,6-Trichlorophenol	0.367	0.358		-2.5	20.0
2-Fluorobiphenyl	1.342	1.282		-4.5	
2,4,5-Trichlorophenol	0.399	0.395		-1.0	
1,1-Biphenyl	1.493	1.467		-1.7	
2-Chloronaphthalene	1.131	1.111		-1.8	
2-Nitroaniline	0.363	0.351		-3.3	
Dimethylphthalate	1.317	1.260		-4.3	
Acenaphthylene	1.710	1.672		-2.2	
2,6-Dinitrotoluene	0.299	0.296		-1.0	
3-Nitroaniline	0.292	0.283		-3.1	
Acenaphthene	1.086	1.050		-3.3	20.0
2,4-Dinitrophenol	0.122	0.123	0.050	0.8	
4-Nitrophenol	0.199	0.174	0.050	-12.6	

Form VII SV-1

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.581		-4.6	
2,4-Dinitrotoluene	0.397	0.389		-2.0	
Diethylphthalate	1.338	1.281		-4.3	
4-Chlorophenyl-phenylether	0.653	0.627		-4.0	
Fluorene	1.330	1.276		-4.1	
4-Nitroaniline	0.306	0.293		-4.2	
4,6-Dinitro-2-methylphenol	0.102	0.109		6.9	
n-Nitrosodiphenylamine	0.591	0.583		-1.4	20.0
2,4,6-Tribromophenol	0.214	0.206		-3.7	
4-Bromophenyl-phenylether	0.206	0.205		-0.5	
Hexachlorobenzene	0.238	0.236		-0.8	
Atrazine	0.166	0.164		-1.2	
Pentachlorophenol	0.105	0.106		1.0	20.0
Phenanthrene	0.961	0.943		-1.9	
Anthracene	0.940	0.931		-1.0	
Carbazole	0.905	0.887		-2.0	
Di-n-butylphthalate	1.044	1.030		-1.3	
Fluoranthene	1.044	1.007		-3.5	20.0
Pyrene	1.849	1.851		0.1	
Terphenyl-d14	1.284	1.258		-2.0	
Butylbenzylphthalate	0.666	0.676		1.5	
3,3-Dichlorobenzidine	0.397	0.401		1.0	
Benzo(a)anthracene	1.324	1.285		-2.9	
Chrysene	1.211	1.210		-0.1	
Bis(2-ethylhexyl)phthalate	0.841	0.846		0.6	
Di-n-octyl phthalate	1.150	1.150		0.0	20.0
Benzo(b)fluoranthene	1.256	1.146		-8.8	
Benzo(k)fluoranthene	1.099	1.148		4.5	
Benzo(a)pyrene	1.021	1.028		0.7	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.241		-4.8	
Dibenzo(a,h)anthracene	1.067	1.017		-4.7	
Benzo(g,h,i)perylene	1.089	1.022		-6.2	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.493	0.505		2.4	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.314		2.6	

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\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 00:08:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	109793	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	377655	20.000	ng		0.00
39) Acenaphthene-d10	9.904	164	180123	20.000	ng		-0.01
64) Phenanthrene-d10	11.398	188	278778	20.000	ng		0.00
76) Chrysene-d12	14.045	240	208770	20.000	ng		0.00
86) Perylene-d12	15.533	264	217412	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	621437	96.639	ng		0.01
7) Phenol-d6	6.510	99	786740	90.303	ng		0.00
23) Nitrobenzene-d5	7.434	82	492636	67.966	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	155928	87.053	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	862994	77.020	ng		0.00
79) Terphenyl-d14	12.980	244	704237	58.553	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.769	152	54144	3.585	ng		98
52) Acenaphthene	9.939	154	22021	2.159	ng		96
71) Phenanthrene	11.422	178	170137	12.992	ng		99
72) Anthracene	11.474	178	76439	5.956	ng		99
75) Fluoranthene	12.616	202	360462	24.534	ng		99
78) Pyrene	12.845	202	363983	20.383	ng		99
81) Benzo(a)anthracene	14.033	228	266516	19.424	ng	#	82
83) Chrysene	14.068	228	221479	17.691	ng	#	95
87) Indeno(1,2,3-cd)pyrene	17.033	276	73495	5.472	ng		96
88) Benzo(b)fluoranthene	15.098	252	215937m	15.183	ng		
89) Benzo(k)fluoranthene	15.115	252	73990m	6.368	ng		
90) Benzo(a)pyrene	15.468	252	180490	16.342	ng	#	96
91) Dibenzo(a,h)anthracene	17.039	278	22934	2.066	ng	#	82
92) Benzo(g,h,i)perylene	17.486	276	64491	5.682	ng		94

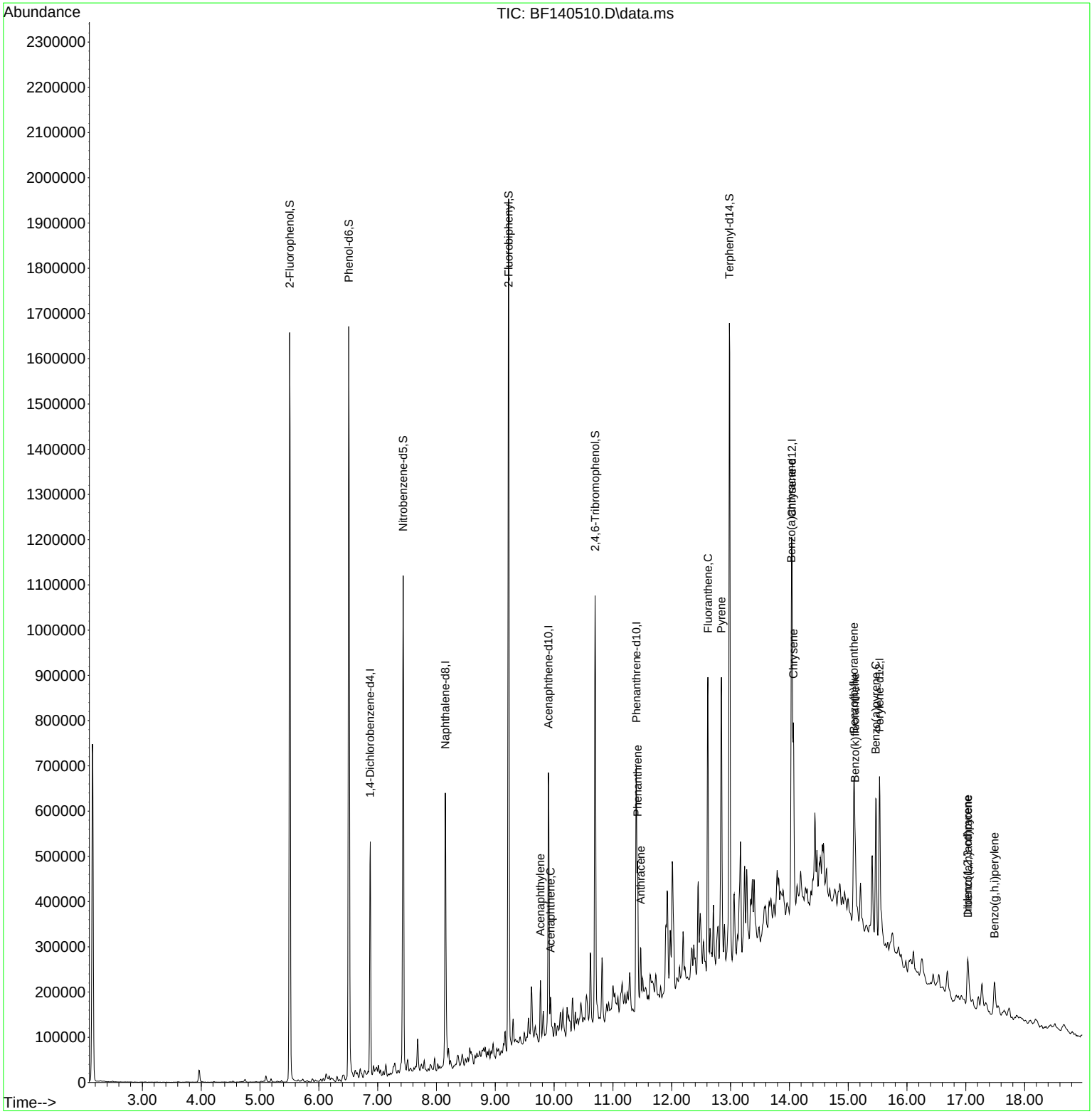
(#) = qualifier out of range (m) = manual integration (+) = signals summed

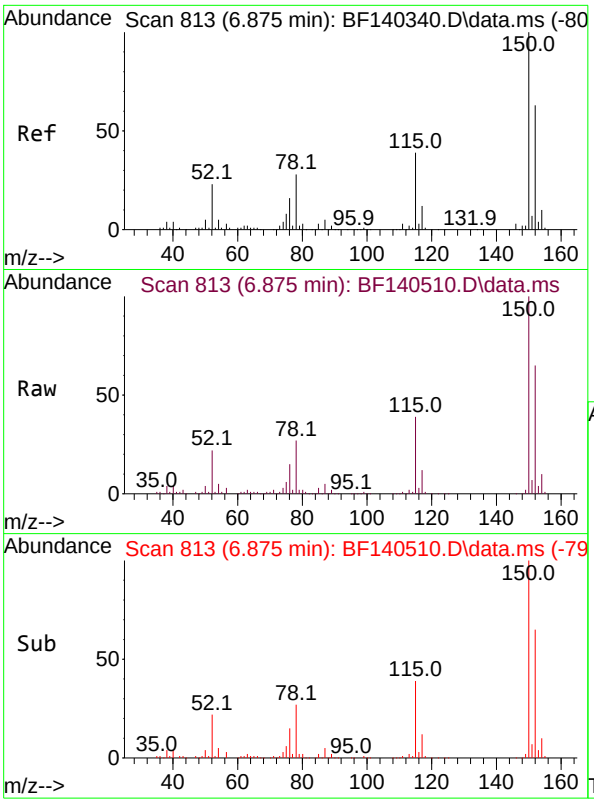
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Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 00:08:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

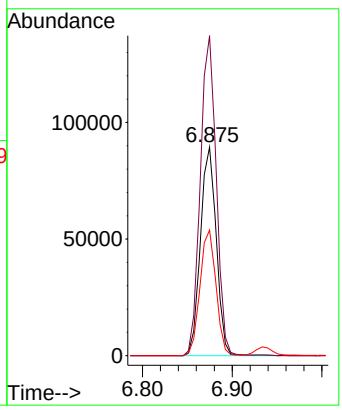




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:152 Resp: 10979

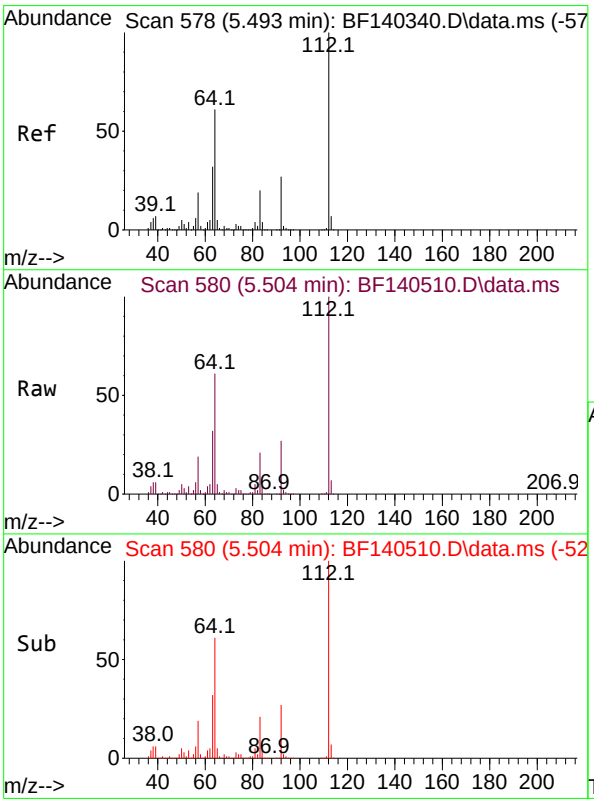
Ion	Ratio	Lower	Upper
152	100		
150	153.4	127.4	191.0
115	60.2	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED

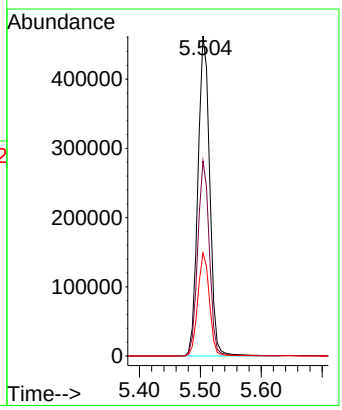
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

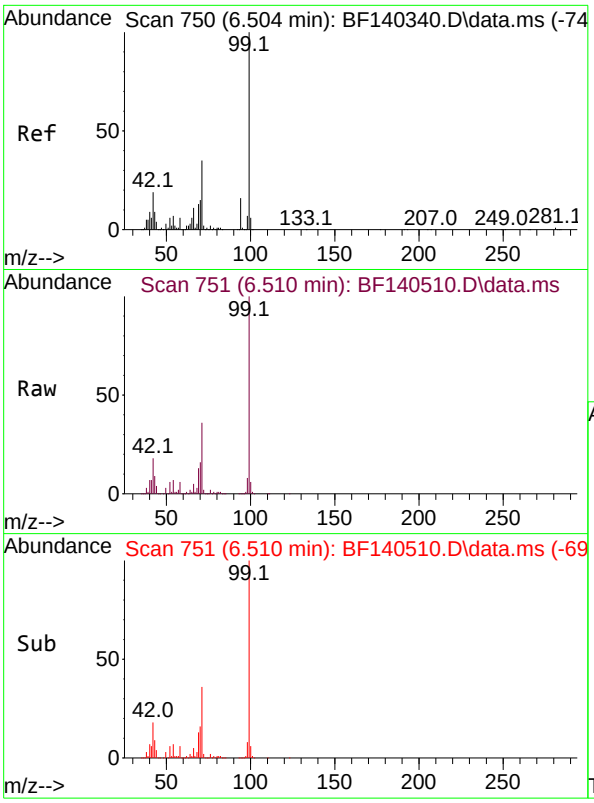


#5
2-Fluorophenol
Concen: 96.639 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:112 Resp: 621437

Ion	Ratio	Lower	Upper
112	100		
64	60.9	49.2	73.8
63	32.2	25.6	38.4

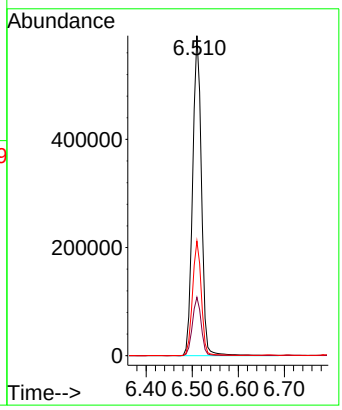




#7
Phenol-d6
Concen: 90.303 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion: 99 Resp: 78674

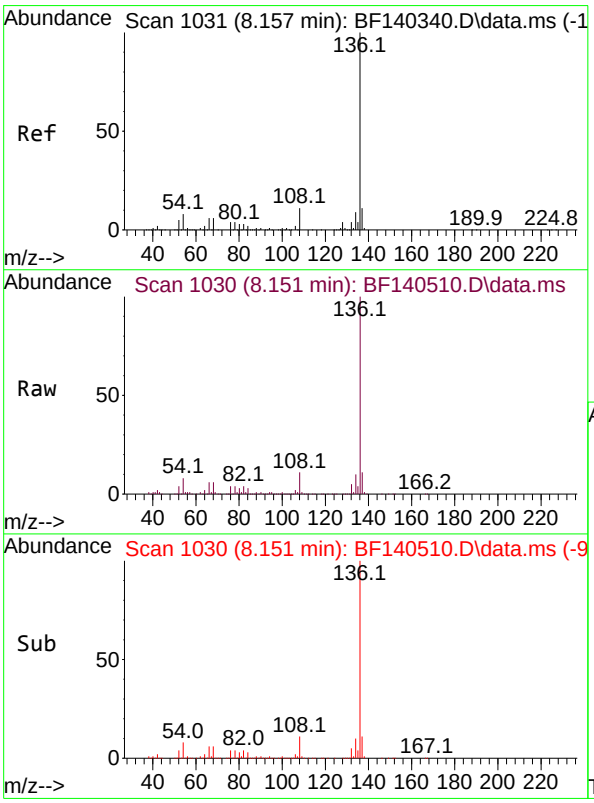
Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.1	22.7
71	35.8	27.9	41.9



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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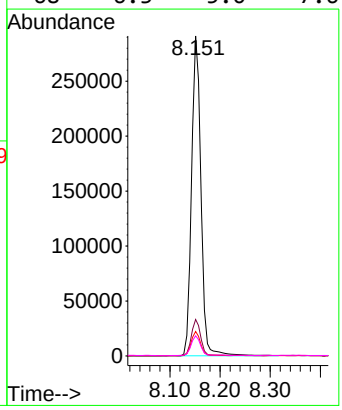
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

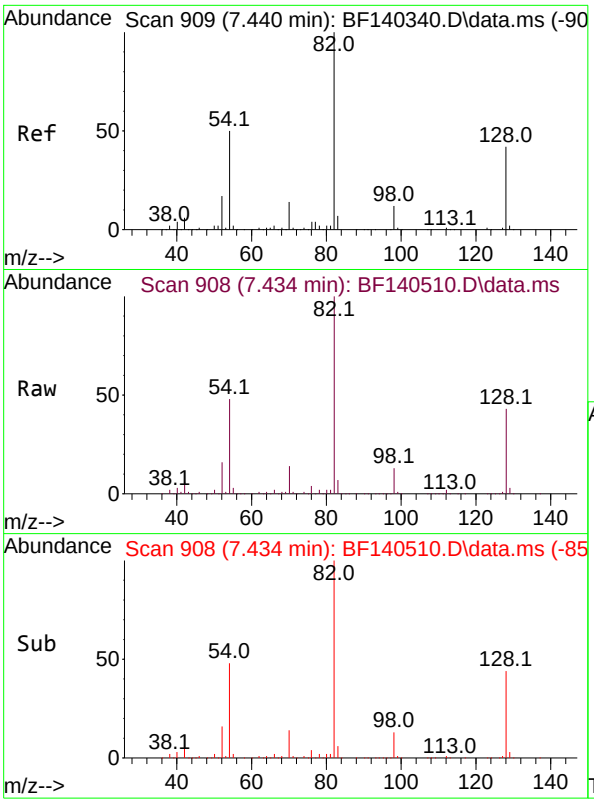


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:136 Resp: 377655

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.7	13.1
54	7.7	6.5	9.7
68	6.3	5.0	7.6

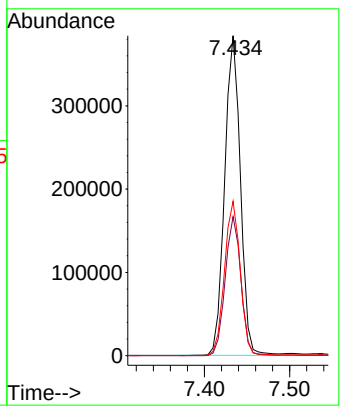




#23
Nitrobenzene-d5
Concen: 67.966 ng
RT: 7.434 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion: 82 Resp: 49263(

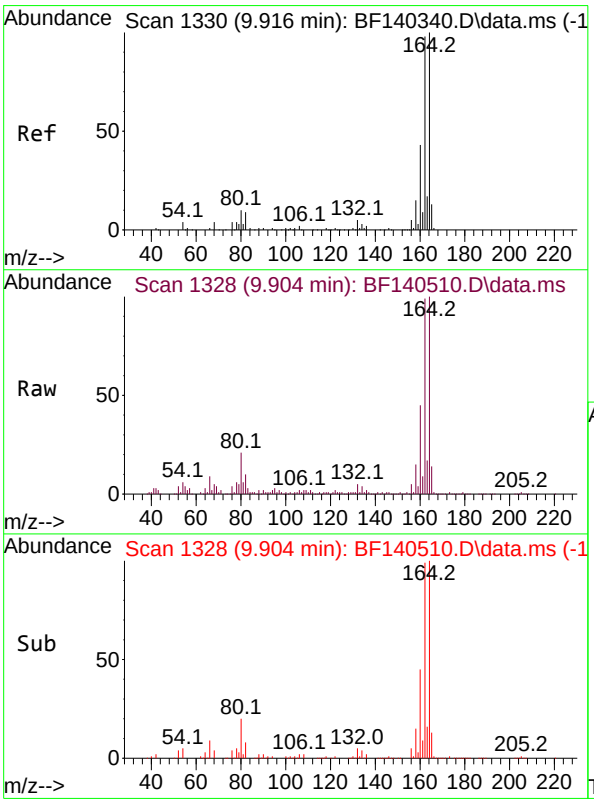
Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.3	49.9
54	48.2	39.8	59.8



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

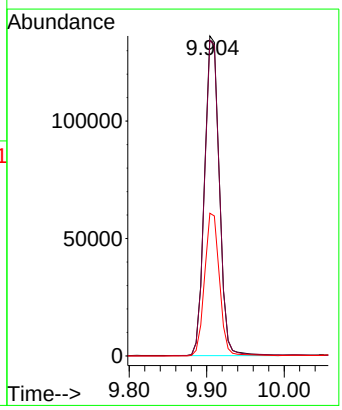
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

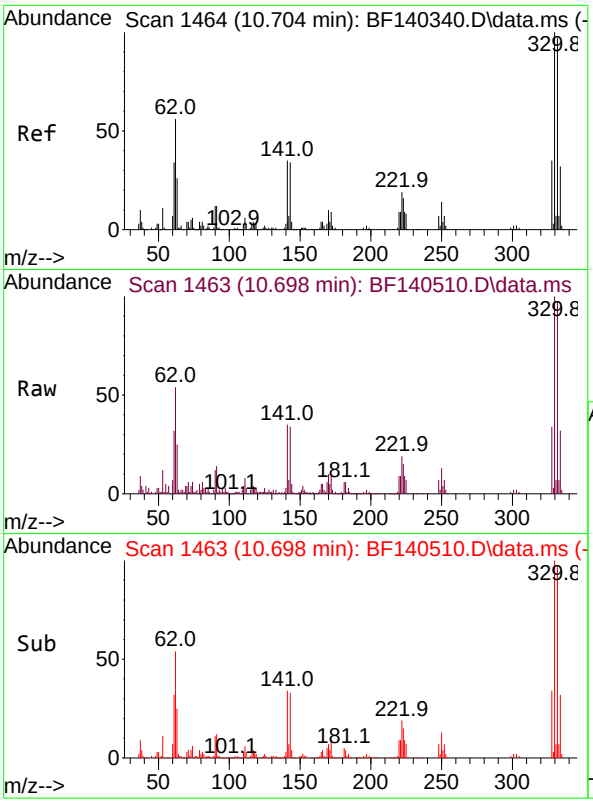


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:164 Resp: 180123

Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.8	119.8
160	44.6	35.4	53.0

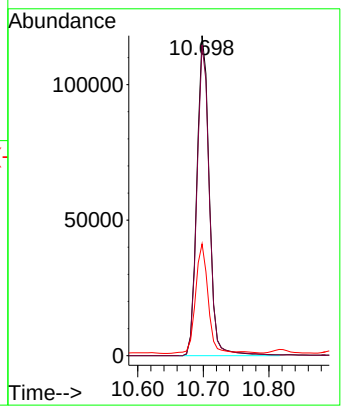




#42
2,4,6-Tribromophenol
Concen: 87.053 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

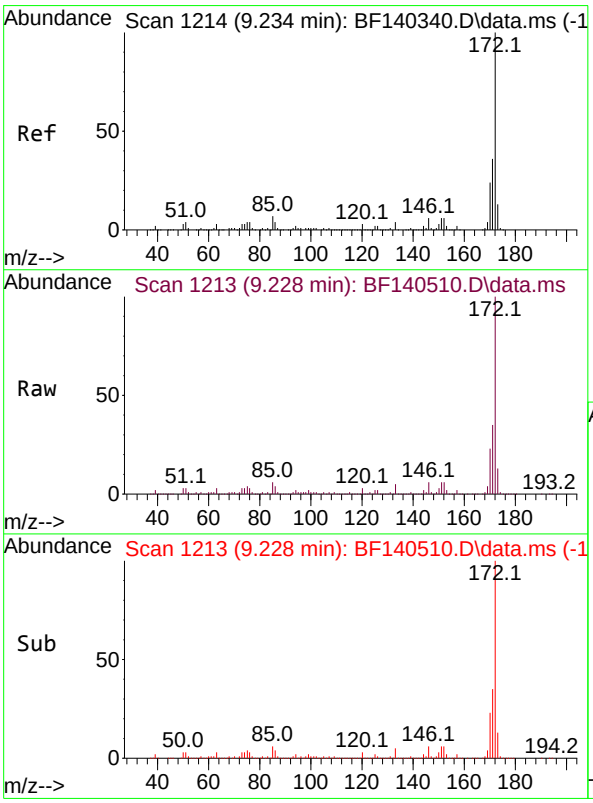
Tgt Ion:330 Resp: 15592

Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.9	113.9
141	34.2	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

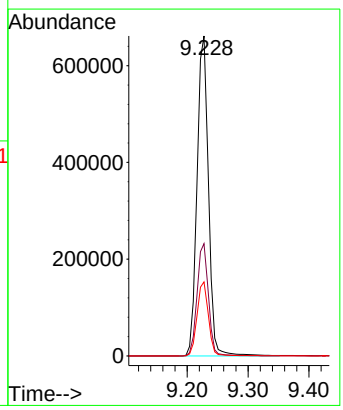
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

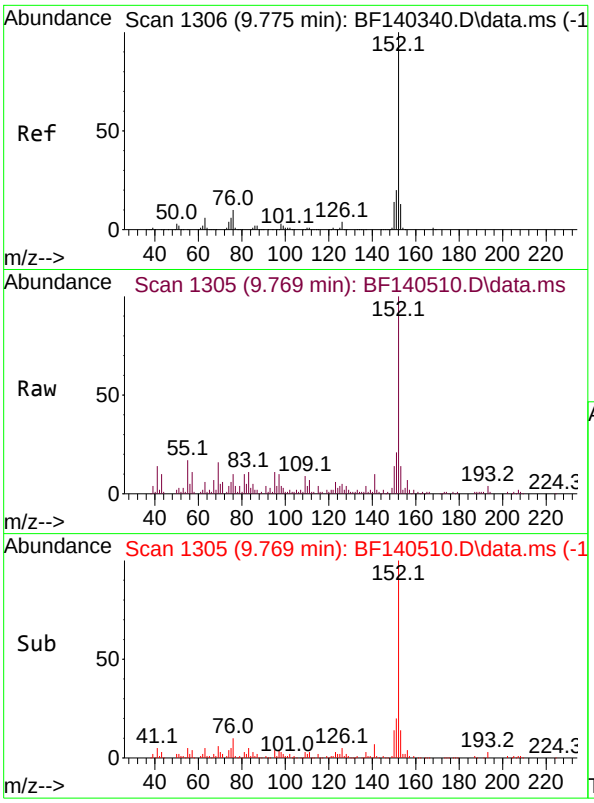


#45
2-Fluorobiphenyl
Concen: 77.020 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:172 Resp: 862994

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.5	42.7
170	23.2	19.1	28.7

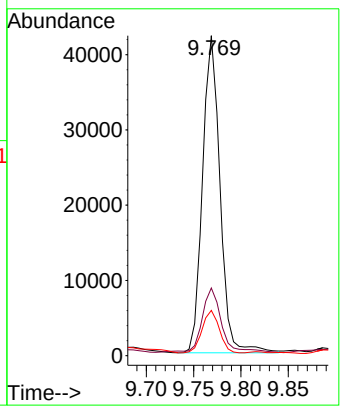




#49
Acenaphthylene
Concen: 3.585 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

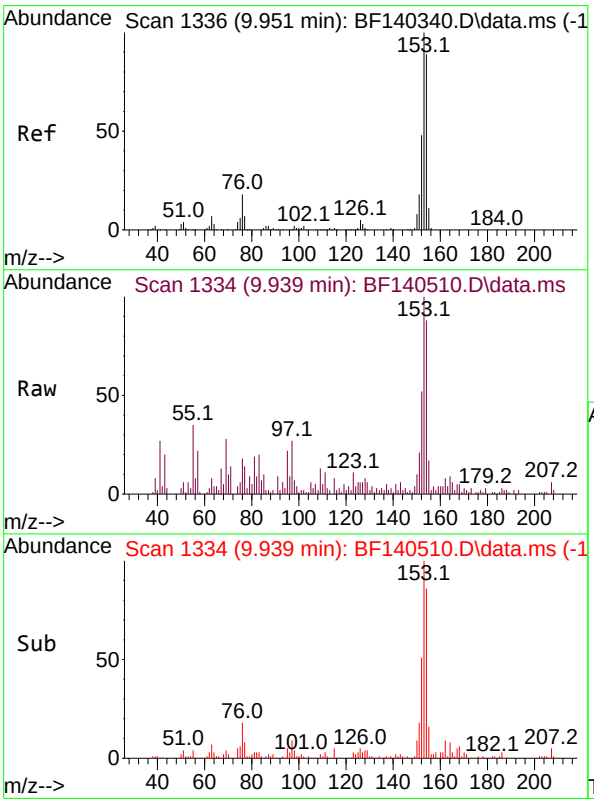
Tgt Ion:152 Resp: 5414

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.1	24.1
153	14.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

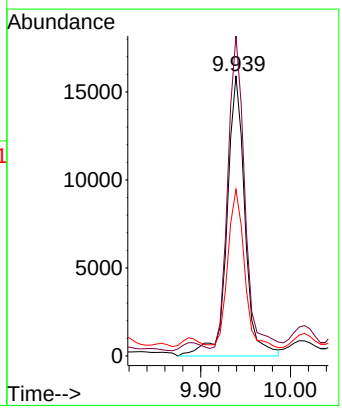
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

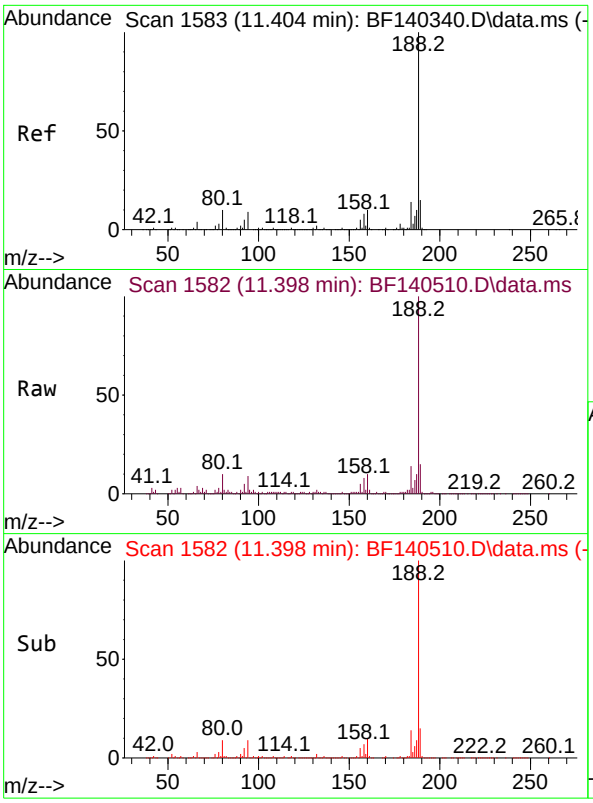


#52
Acenaphthene
Concen: 2.159 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:154 Resp: 22021

Ion	Ratio	Lower	Upper
154	100		
153	114.2	89.8	134.8
152	59.4	42.6	64.0

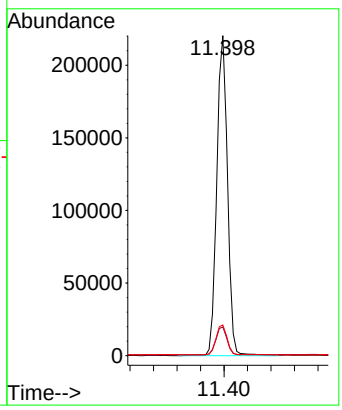




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:188 Resp: 27877

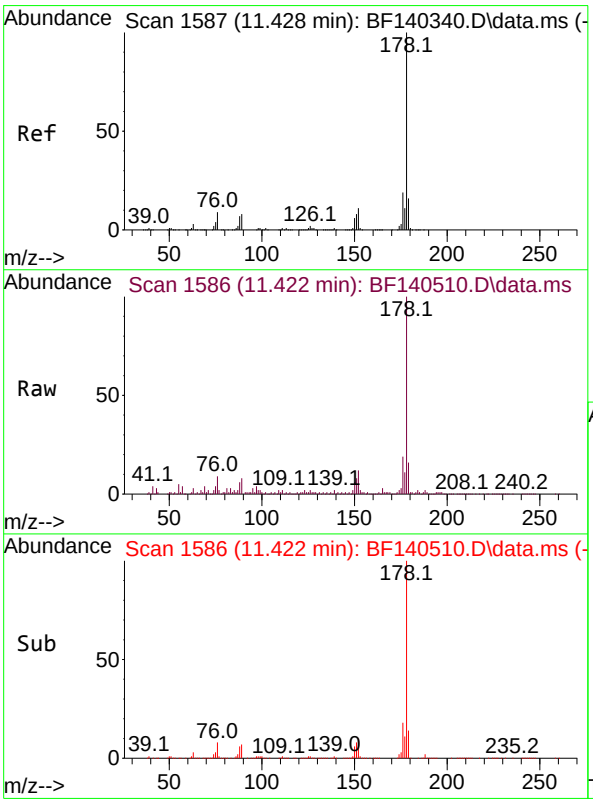
Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.6	11.4
80	9.6	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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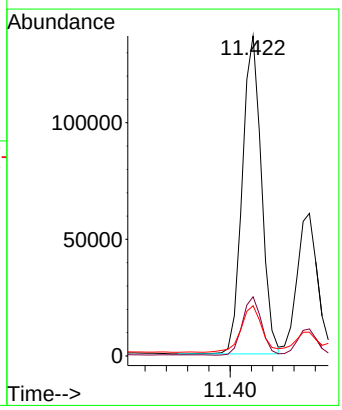
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

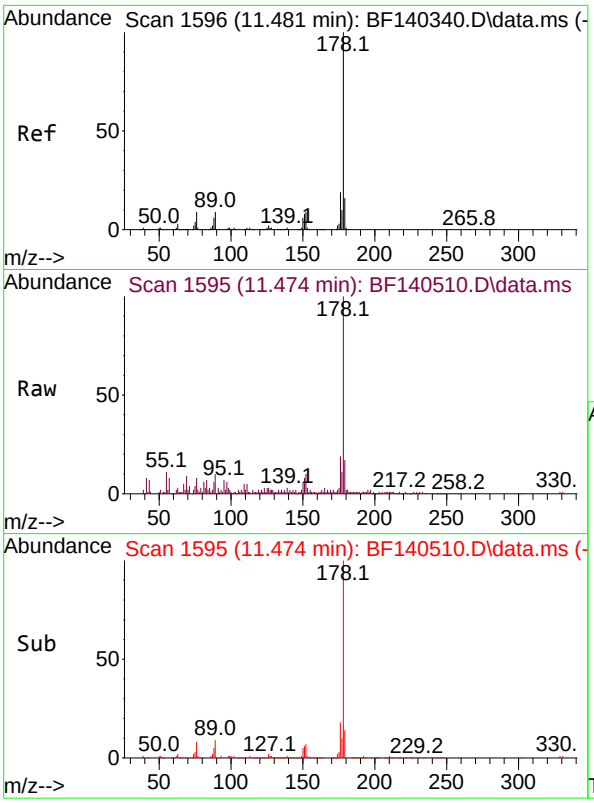


#71
Phenanthrene
Concen: 12.992 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:178 Resp: 170137

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.5	23.3
179	15.7	12.4	18.6

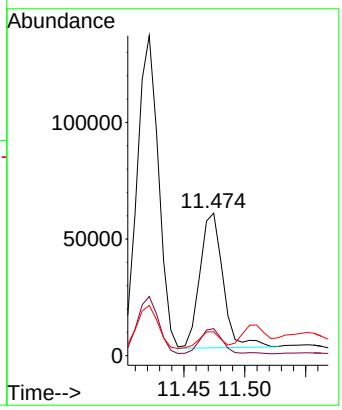




#72
Anthracene
Concen: 5.956 ng
RT: 11.474 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:178 Resp: 7643

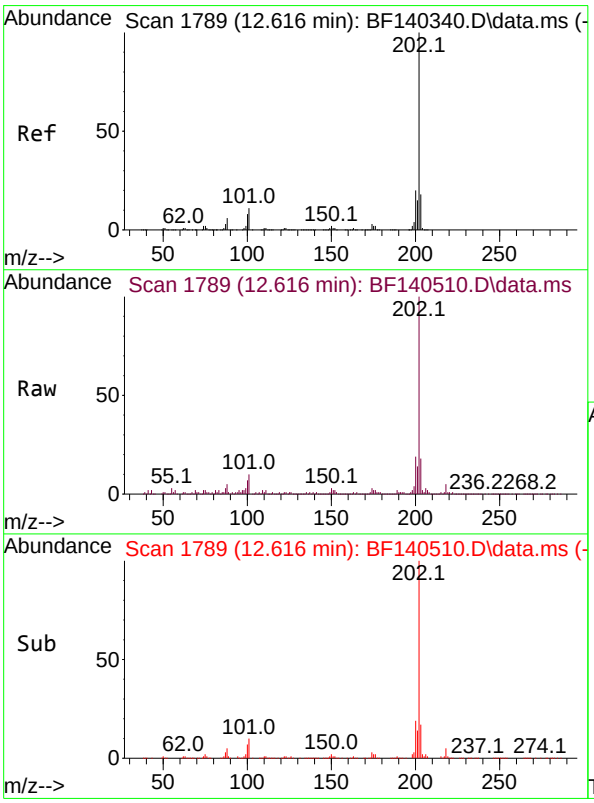
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	16.8	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

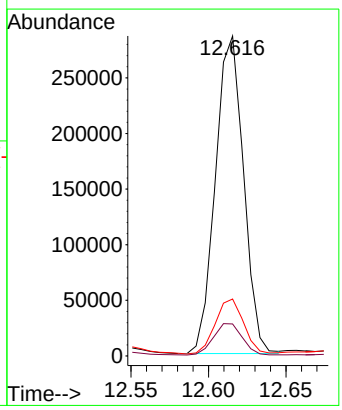
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

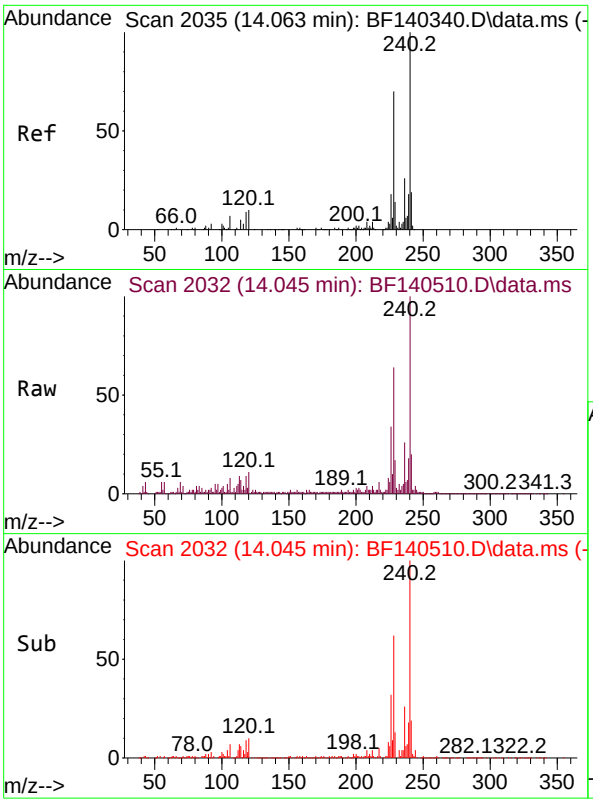


#75
Fluoranthene
Concen: 24.534 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:202 Resp: 360462

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	30.7
203	17.8	0.0	37.7

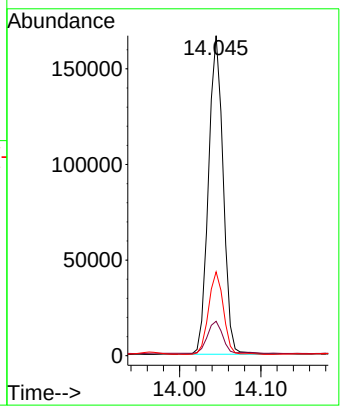




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:240 Resp: 20877

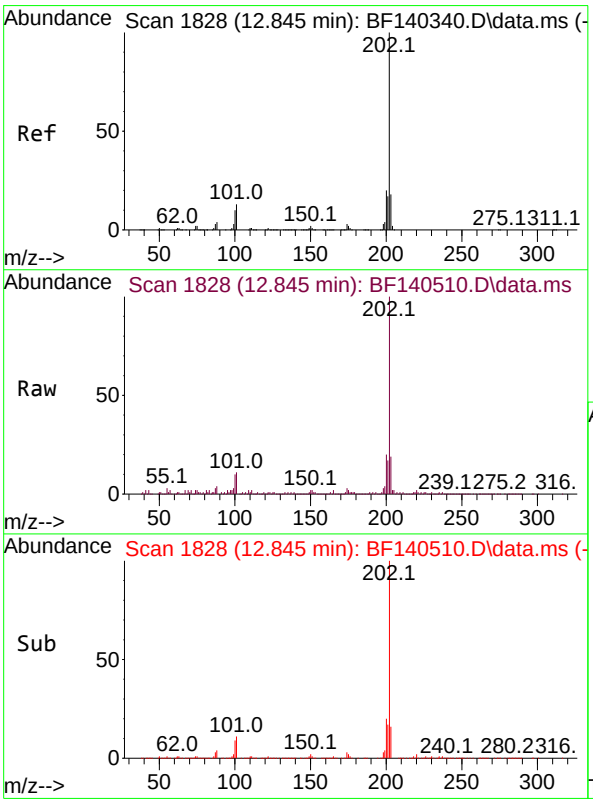
Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.8	13.2
236	26.2	20.9	31.3



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

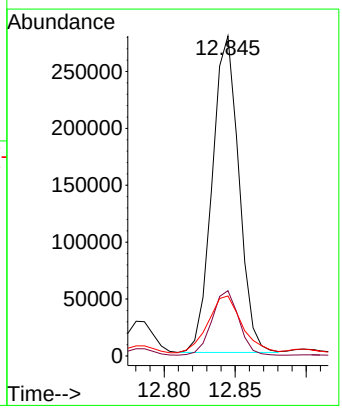
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

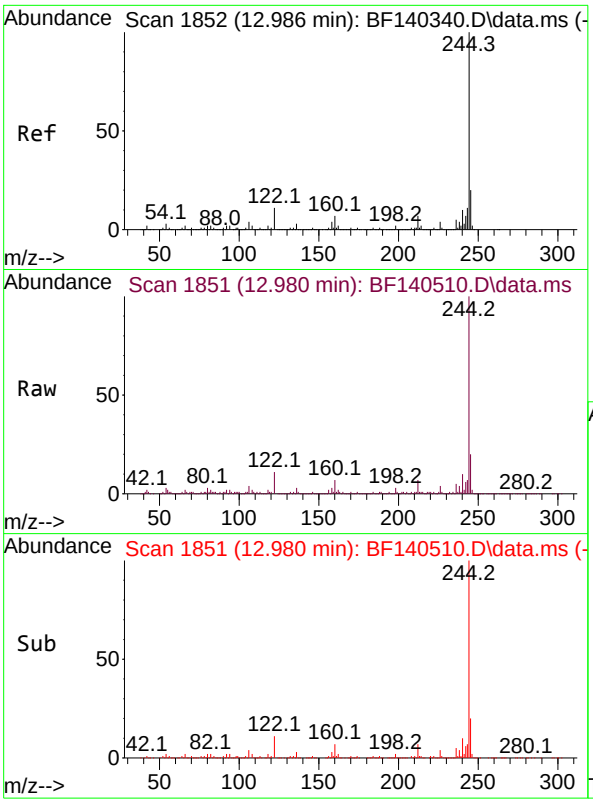


#78
Pyrene
Concen: 20.383 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:202 Resp: 363983

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.2	24.2
203	18.7	14.2	21.4

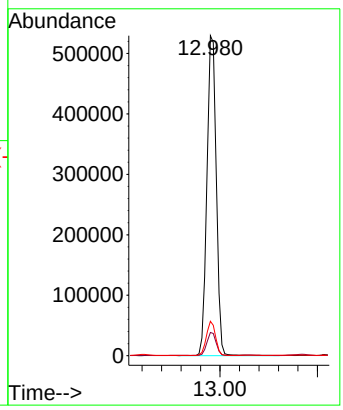




#79
Terphenyl-d14
Concen: 58.553 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

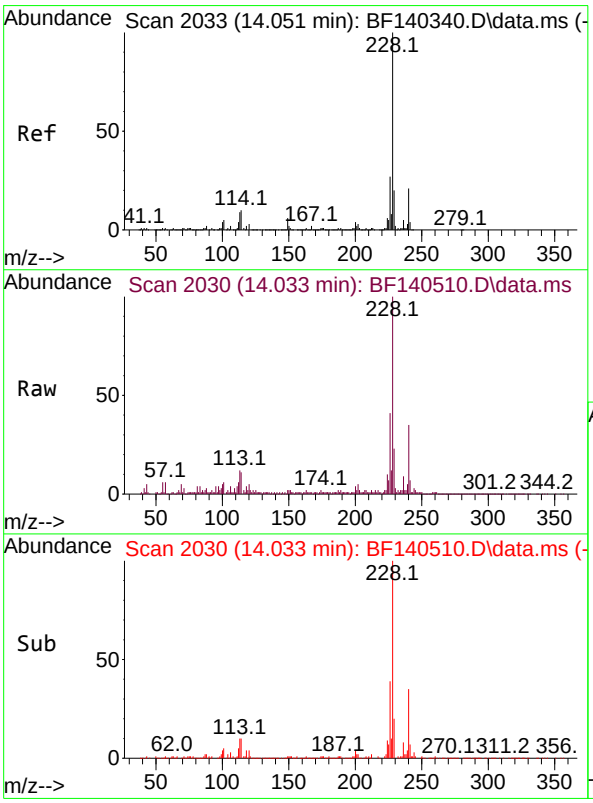
Tgt Ion:244 Resp: 70423

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.8	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

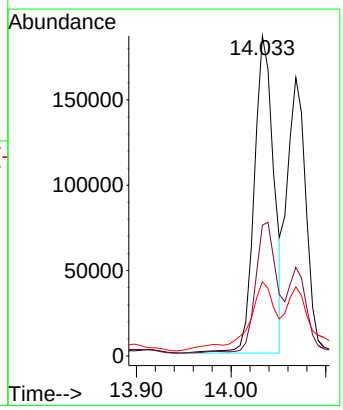
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

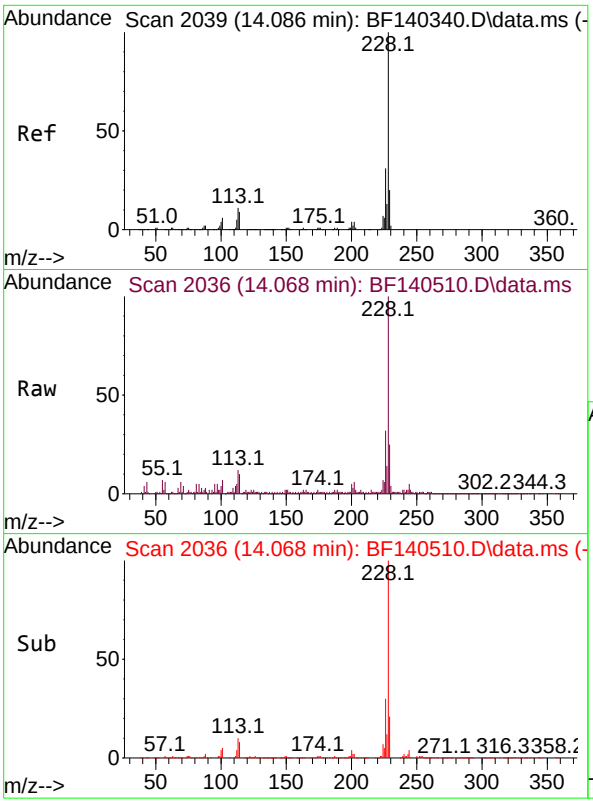


#81
Benzo(a)anthracene
Concen: 19.424 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:228 Resp: 266516

Ion	Ratio	Lower	Upper
228	100		
226	40.8	22.2	33.4#
229	23.2	15.8	23.6

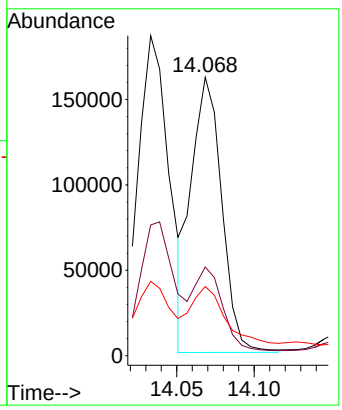




#83
Chrysene
Concen: 17.691 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:228 Resp: 22147

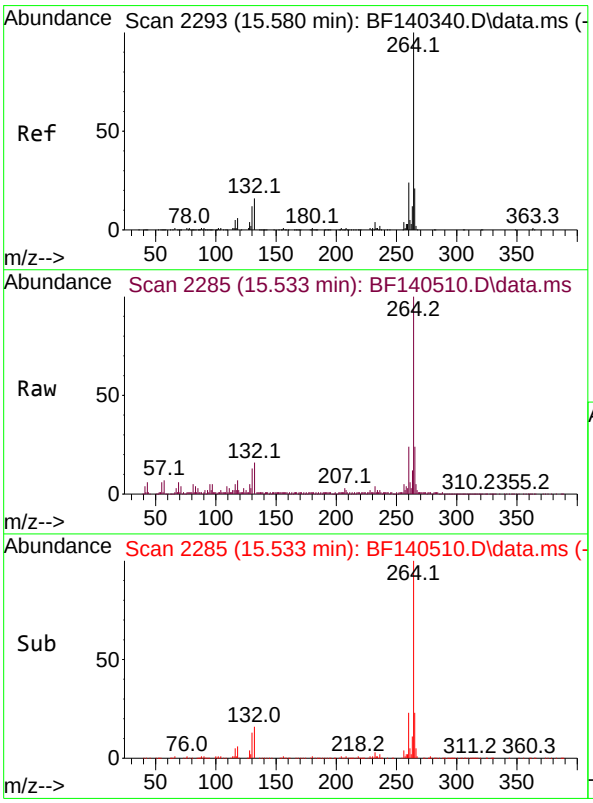
Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.5	36.7
229	24.8	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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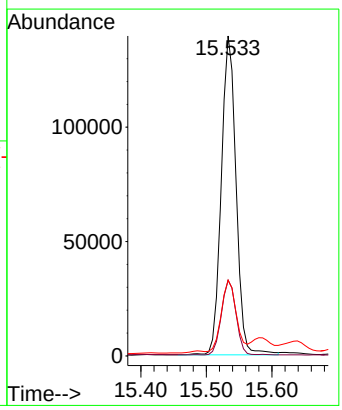
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

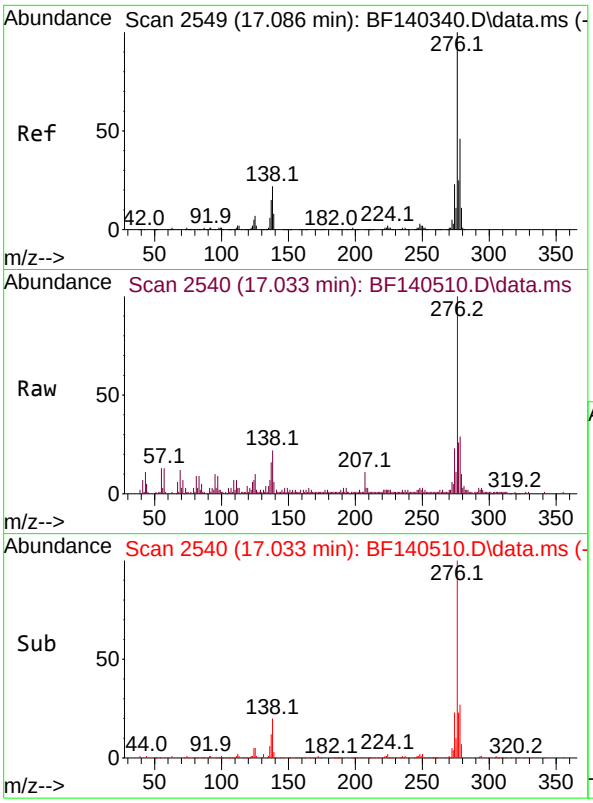


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:264 Resp: 217412

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	23.7	17.1	25.7

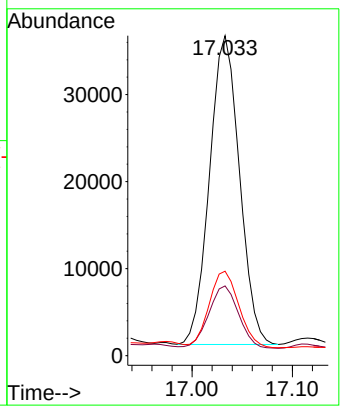




#87
Indeno(1,2,3-cd)pyrene
Concen: 5.472 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

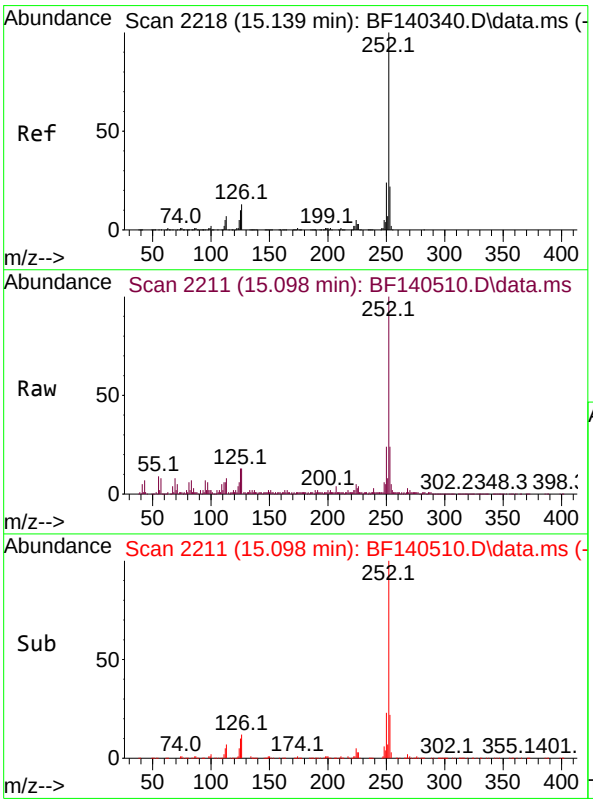
Tgt Ion:276 Resp: 7349

Ion	Ratio	Lower	Upper
276	100		
138	20.2	18.8	28.2
277	24.9	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

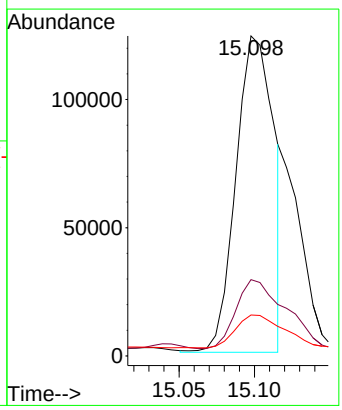
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

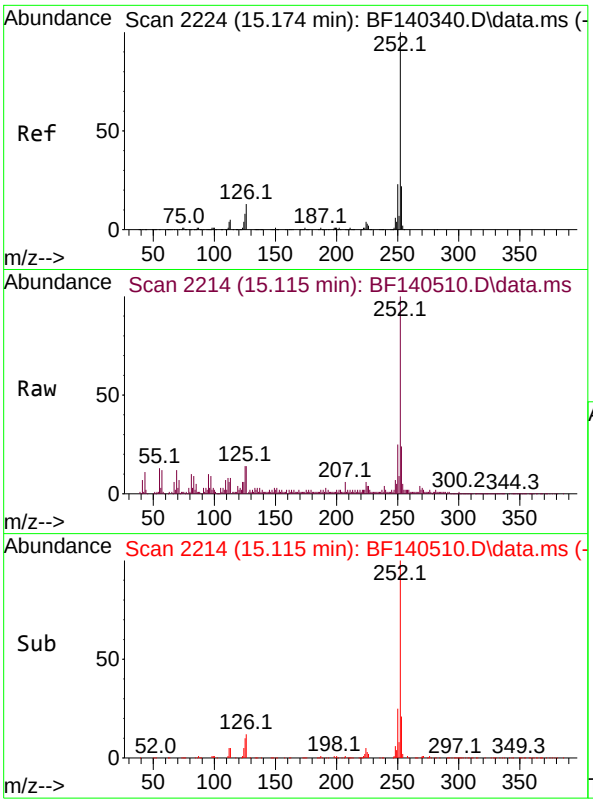


#88
Benzo(b)fluoranthene
Concen: 15.183 ng m
RT: 15.098 min Scan# 2211
Delta R.T. -0.018 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:252 Resp: 215937

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	12.8	8.0	12.0#

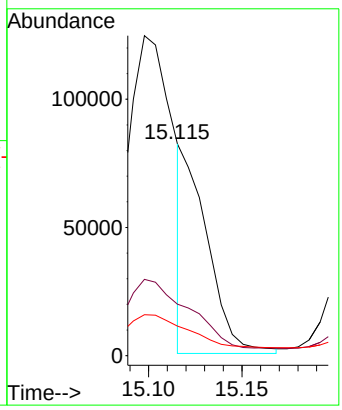




#89
Benzo(k)fluoranthene
Concen: 6.368 ng m
RT: 15.115 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

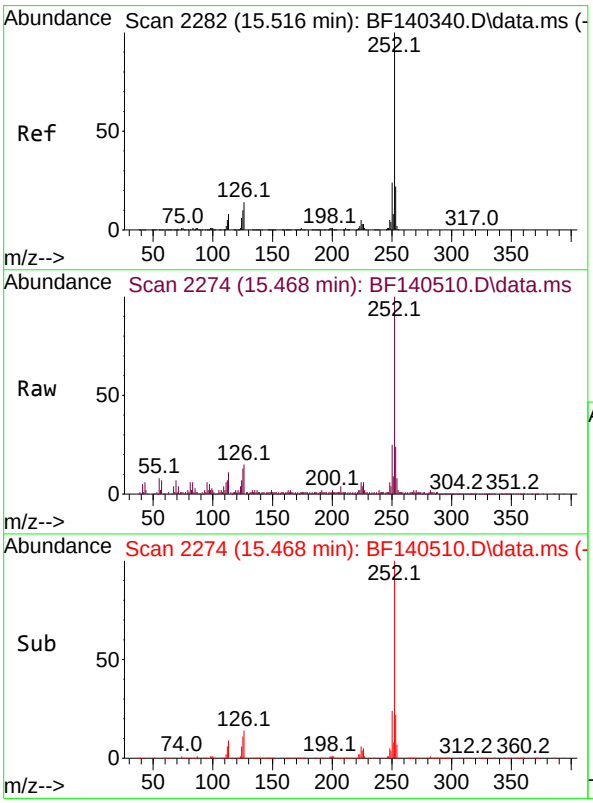
Tgt Ion:252 Resp: 7399

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.3	25.9
125	14.0	7.4	11.2#



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

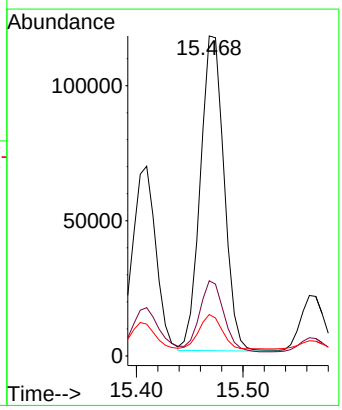
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

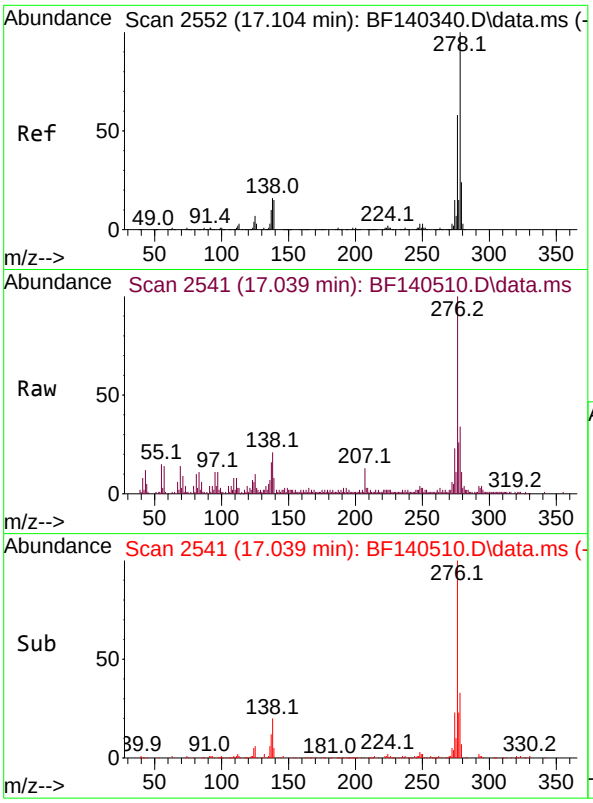


#90
Benzo(a)pyrene
Concen: 16.342 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:252 Resp: 180490

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	13.0	8.4	12.6#

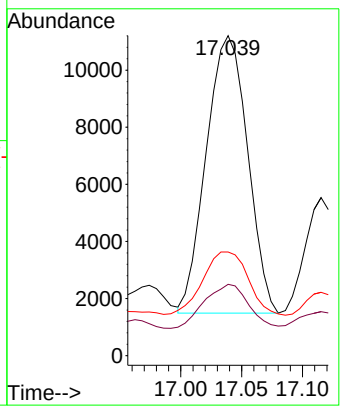




#91
Dibenzo(a,h)anthracene
Concen: 2.066 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

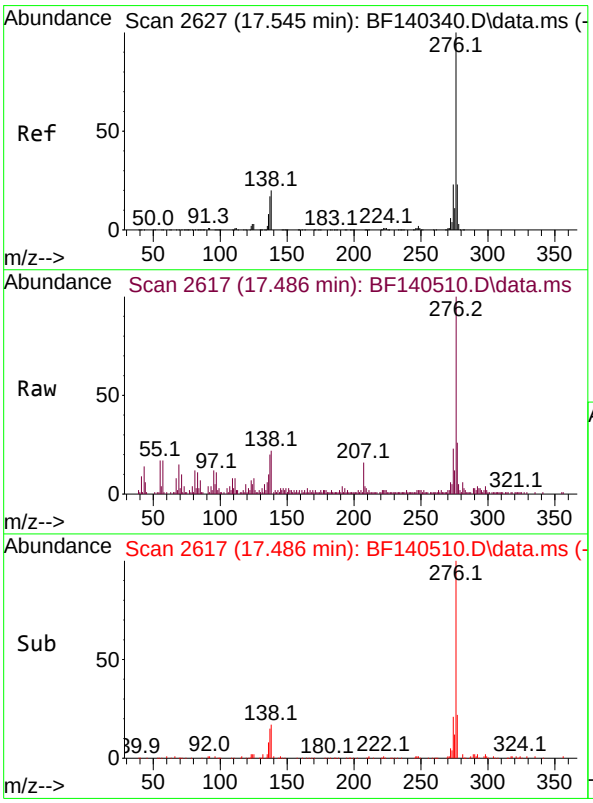
Tgt Ion:278 Resp: 2293

Ion	Ratio	Lower	Upper
278	100		
139	22.3	11.8	17.8#
279	32.4	18.9	28.3#



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

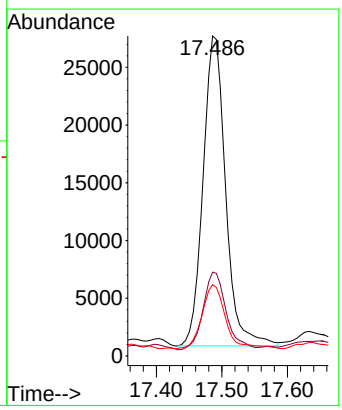
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#92
Benzo(g,h,i)perylene
Concen: 5.682 ng
RT: 17.486 min Scan# 2617
Delta R.T. -0.030 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:276 Resp: 64491

Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	22.3	16.0	24.0



Sample Results: **BF140510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140510.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.152	3	10	22	rVB	745044	1211511	49.17%	4.404%
2	3.963	309	318	325	rBV	26837	45115	1.83%	0.164%
3	5.504	569	580	596	rBV	1657052	2216761	89.97%	8.059%
4	6.122	680	685	691	rBV3	14881	30246	1.23%	0.110%
5	6.422	729	736	741	rBV5	14458	40012	1.62%	0.145%
6	6.510	741	751	764	rBV	1665845	2295549	93.16%	8.345%
7	6.704	780	784	792	rBV4	19351	39289	1.59%	0.143%
8	6.781	792	797	802	rBV3	15628	33723	1.37%	0.123%
9	6.875	808	813	819	rVB	514534	646557	26.24%	2.351%
10	6.934	819	823	826	rBV3	19368	28403	1.15%	0.103%
11	7.139	853	858	862	rVB3	25838	41195	1.67%	0.150%
12	7.292	881	884	890	rVB5	22758	37206	1.51%	0.135%
13	7.434	897	908	917	rBV	1098691	1465885	59.49%	5.329%
14	7.510	917	921	925	rVB4	24666	39379	1.60%	0.143%
15	7.681	946	950	956	rVB3	69776	102396	4.16%	0.372%
16	7.898	983	987	995	rBV7	13104	28474	1.16%	0.104%
17	7.969	995	999	1004	rVB2	27312	37639	1.53%	0.137%
18	8.151	1023	1030	1037	rBV	604207	857290	34.79%	3.117%
19	8.204	1037	1039	1042	rVV	42952	48473	1.97%	0.176%
20	8.239	1042	1045	1051	rVB8	17616	28576	1.16%	0.104%
21	8.363	1061	1066	1072	rVB6	23170	48604	1.97%	0.177%
22	8.439	1075	1079	1084	rVB5	24302	42296	1.72%	0.154%
23	8.569	1097	1101	1103	rBV	29646	40049	1.63%	0.146%
24	8.657	1112	1116	1118	rBV4	19082	26776	1.09%	0.097%
25	8.963	1165	1168	1175	rVB	32292	47586	1.93%	0.173%
26	9.028	1175	1179	1181	rBV4	21967	32004	1.30%	0.116%
27	9.169	1200	1203	1207	rVB	42449	51936	2.11%	0.189%
28	9.228	1207	1213	1222	rBV	1883475	2464013	100.00%	8.958%
29	9.304	1222	1226	1230	rBV2	57206	79891	3.24%	0.290%
30	9.563	1267	1270	1275	rBV	42969	60418	2.45%	0.220%
31	9.616	1275	1279	1286	rVB3	111655	180741	7.34%	0.657%
32	9.769	1301	1305	1309	rBV	134279	171296	6.95%	0.623%
33	9.816	1309	1313	1317	rVV2	56833	77315	3.14%	0.281%
34	9.904	1323	1328	1332	rBV	565808	749131	30.40%	2.723%
35	9.939	1332	1334	1343	rVB2	86800	127166	5.16%	0.462%
36	10.010	1343	1346	1350	rBV2	29163	42191	1.71%	0.153%

Sample Results: **BF140510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.104	1360	1362	1366	rVB2	36883	46029	1.87%	0.167%
38	10.151	1367	1370	1378	rVB4	59569	100752	4.09%	0.366%
39	10.222	1378	1382	1385	rBV2	64025	98662	4.00%	0.359%
40	10.316	1394	1398	1403	rBV5	72005	120901	4.91%	0.440%
41	10.363	1403	1406	1409	rBV2	35774	44334	1.80%	0.161%
42	10.551	1434	1438	1444	rVB2	54385	103081	4.18%	0.375%
43	10.616	1445	1449	1456	rVB2	153223	216944	8.80%	0.789%
44	10.698	1458	1463	1474	rVB	934956	1240435	50.34%	4.510%
45	10.816	1479	1483	1490	rVB	141440	211936	8.60%	0.770%
46	11.286	1560	1563	1569	rVB3	83931	134224	5.45%	0.488%
47	11.398	1577	1582	1584	rBV	540303	728136	29.55%	2.647%
48	11.469	1591	1594	1598	rBV	109766	136843	5.55%	0.497%
49	11.633	1619	1622	1626	rBV3	49502	88957	3.61%	0.323%
50	11.904	1664	1668	1669	rBV	136730	184255	7.48%	0.670%
51	11.921	1669	1671	1676	rVV2	213321	307174	12.47%	1.117%
52	11.974	1677	1680	1683	rVV	126999	189625	7.70%	0.689%
53	12.010	1683	1686	1695	rVB	280839	551709	22.39%	2.006%
54	12.192	1714	1717	1721	rBV	87082	101572	4.12%	0.369%
55	12.451	1757	1761	1764	rBV	196818	280083	11.37%	1.018%
56	12.616	1784	1789	1793	rBV	649994	839150	34.06%	3.051%
57	12.651	1793	1795	1798	rVV2	88215	111353	4.52%	0.405%
58	12.710	1802	1805	1811	rVB	131278	177513	7.20%	0.645%
59	12.845	1822	1828	1834	rBV	616327	955641	38.78%	3.474%
60	12.980	1847	1851	1859	rVB	1408297	1949517	79.12%	7.087%
61	13.063	1861	1865	1871	rVB3	132775	229936	9.33%	0.836%
62	13.168	1877	1883	1888	rVB	244471	457078	18.55%	1.662%
63	13.239	1891	1895	1898	rVV2	172729	245419	9.96%	0.892%
64	13.274	1898	1901	1908	rVB2	155617	236592	9.60%	0.860%
65	13.398	1920	1922	1931	rVB3	129036	204877	8.31%	0.745%
66	14.039	2026	2031	2035	rBV2	807300	1430342	58.05%	5.200%
67	15.098	2207	2211	2220	rBV	285313	598543	24.29%	2.176%
68	15.409	2260	2264	2270	rVB	168880	259882	10.55%	0.945%
69	15.468	2270	2274	2280	rVV	305169	472884	19.19%	1.719%
70	15.533	2281	2285	2300	rVB2	373749	714526	29.00%	2.598%
71	17.033	2535	2540	2550	rBV2	94022	222775	9.04%	0.810%

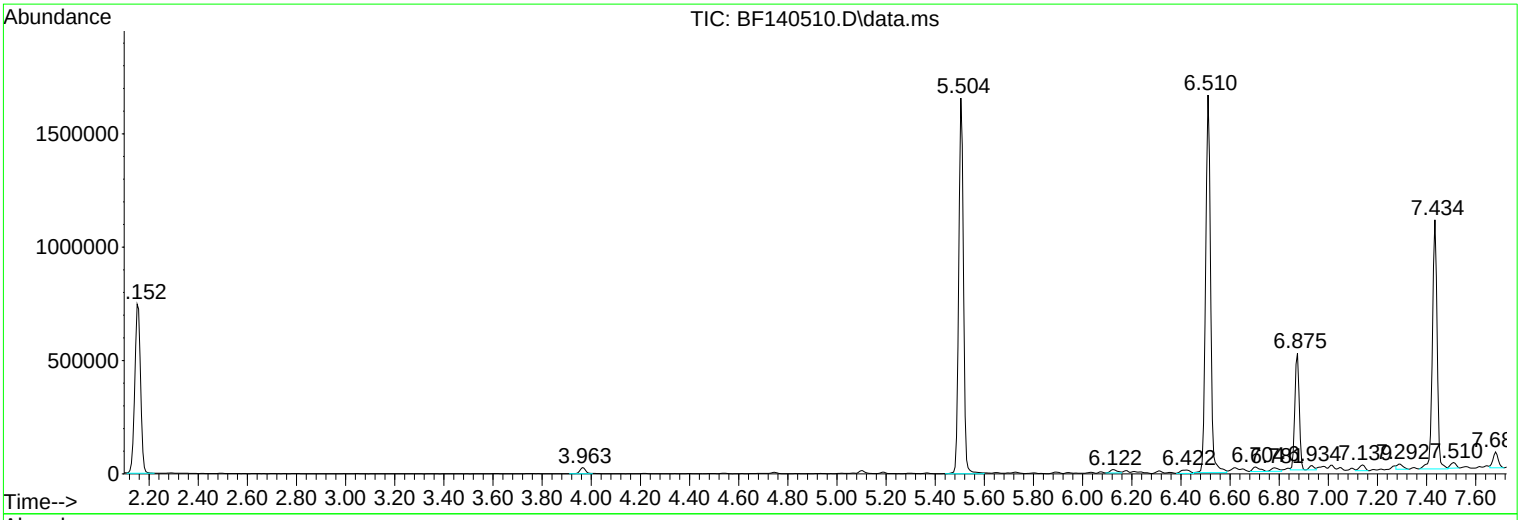
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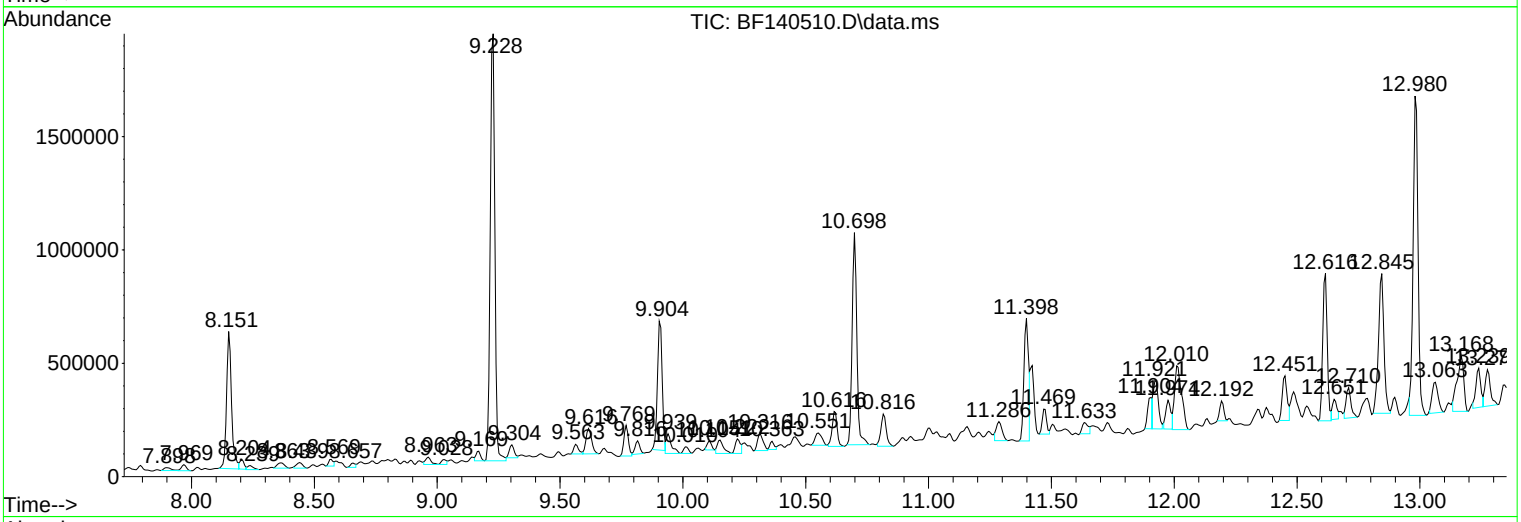
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

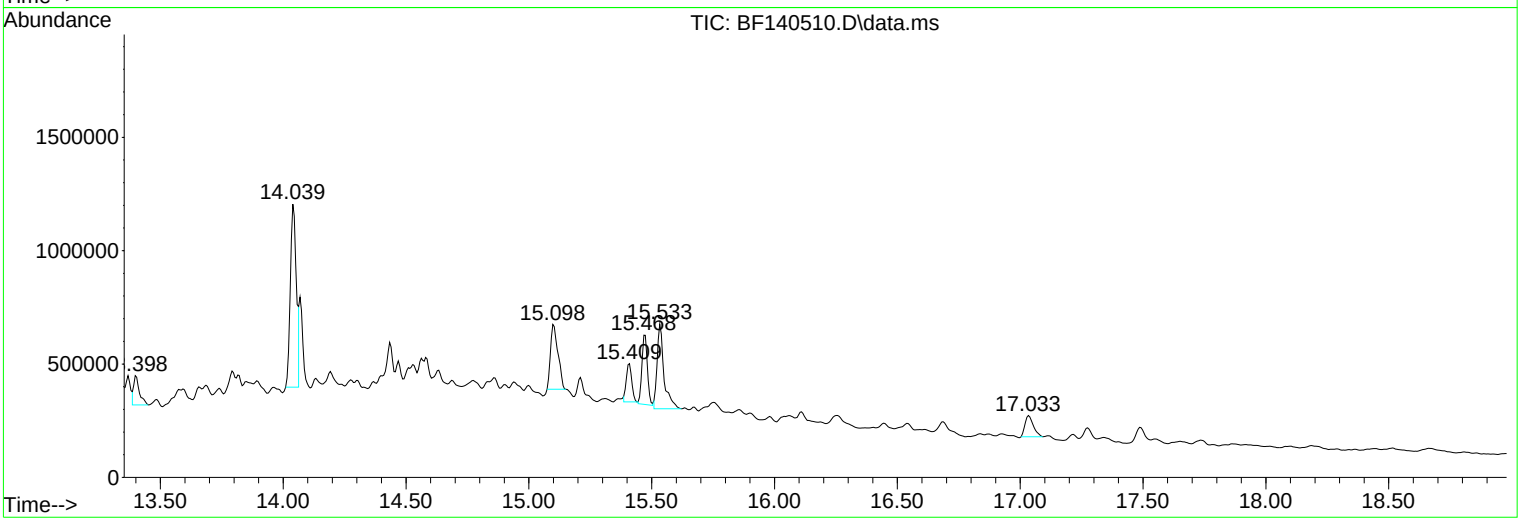
Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

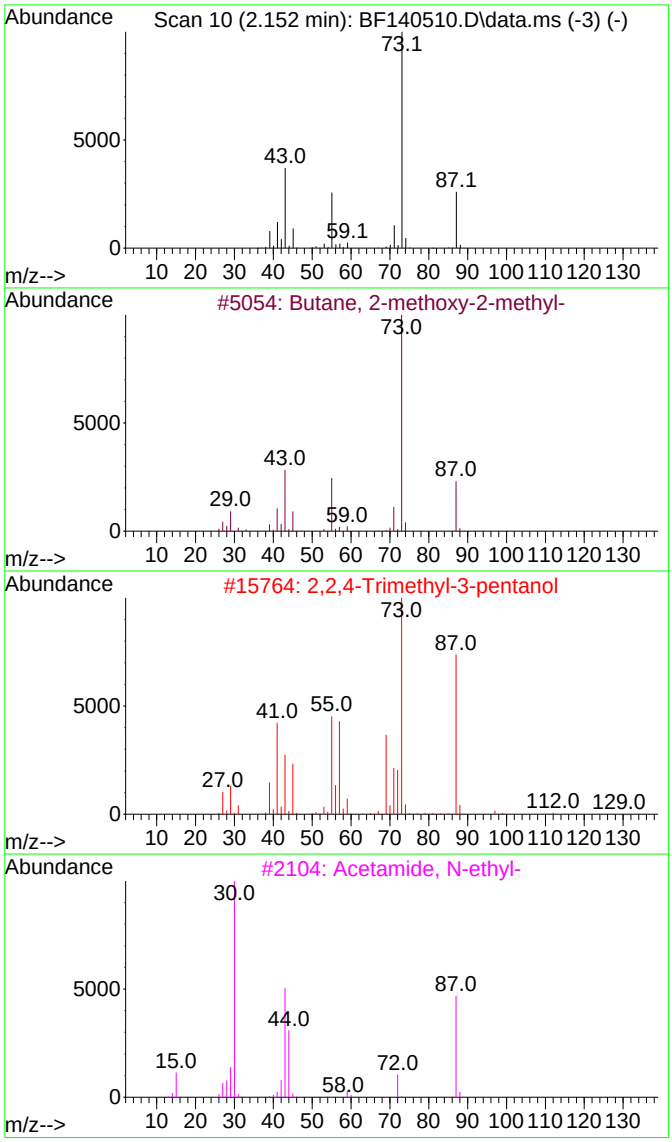
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

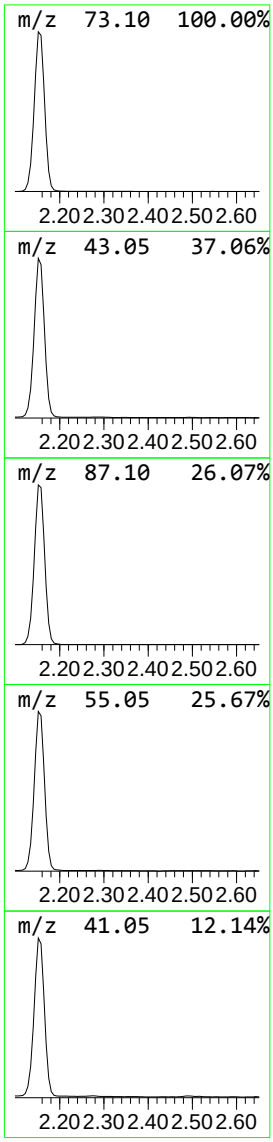
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.152	37.48 ng	1211510	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

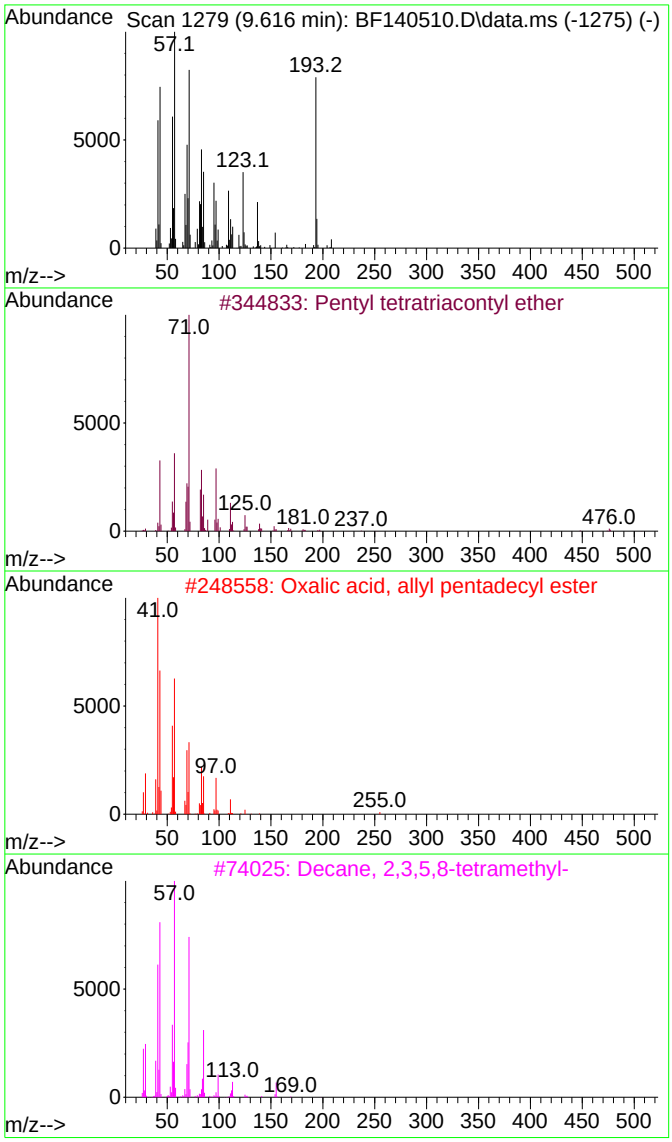
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

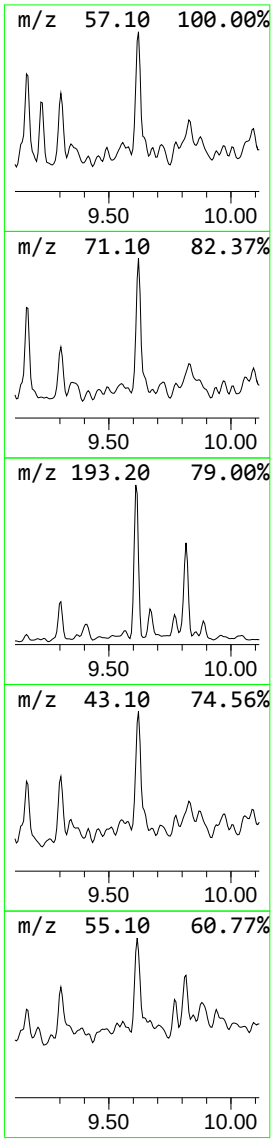
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Peak Number 2 unknown9.616 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.616	4.83 ng	180741	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentyl tetratriacontyl ether	565	C39H80O	1010406-42-7	27
2	Oxalic acid, allyl pentadecyl ester	340	C20H36O4	1000309-24-3	22
3	Decane, 2,3,5,8-tetramethyl-	198	C14H30	192823-15-7	18
4	4-Amino-N-hydroxypyrazolo[3,2-c]...	193	C6H7N7O	1000443-50-2	18
5	2,6,10-Trimethylundeca-1,3-diene	194	C14H26	1000222-09-1	15





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

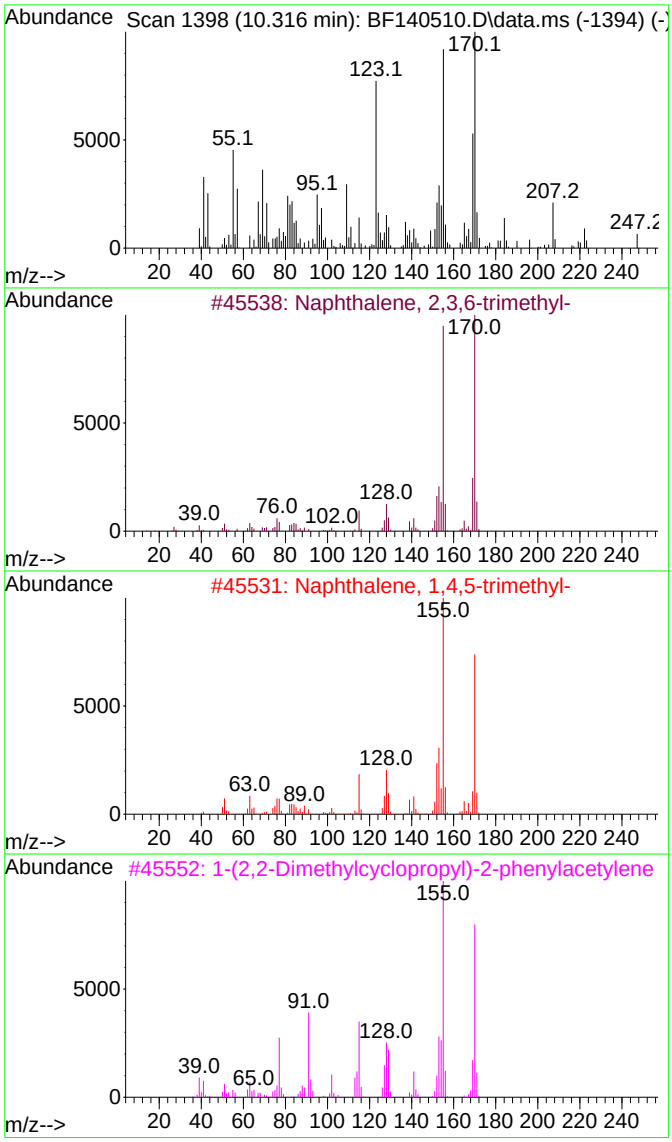
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

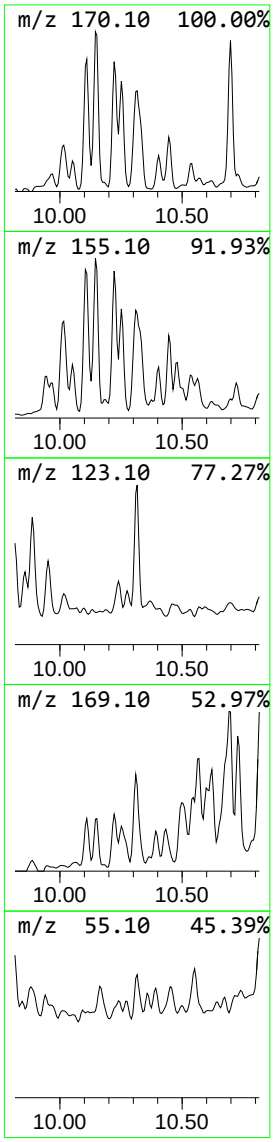
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Peak Number 3 Naphthalene, 2,3,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.316	3.23 ng	120901	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	91
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	90
3	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	90
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	90
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

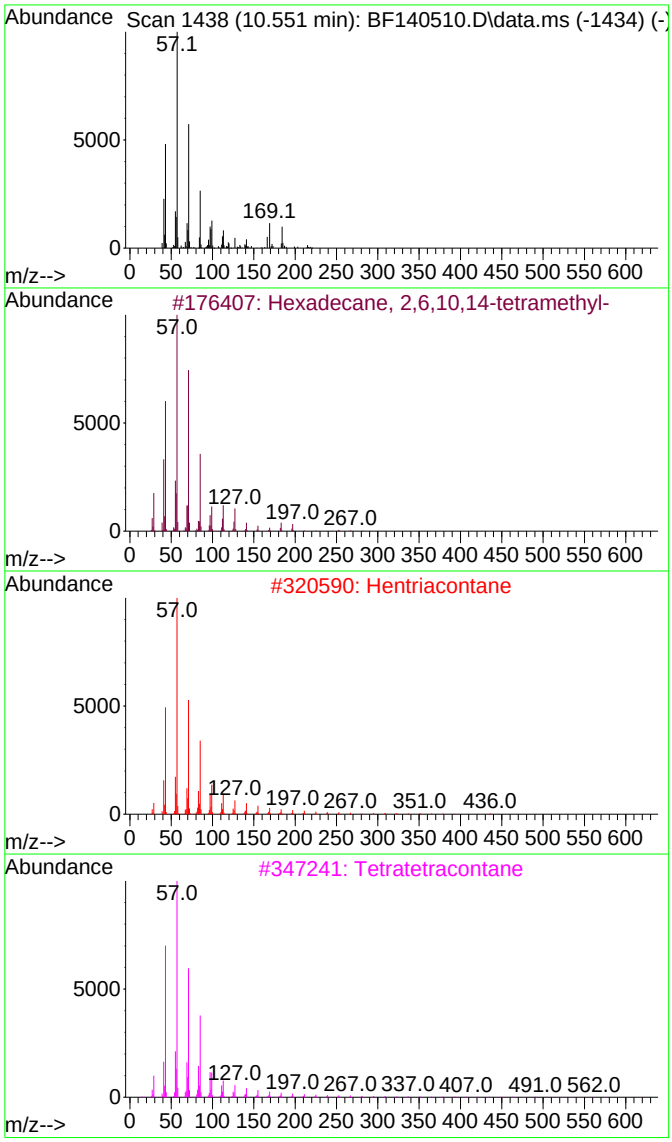
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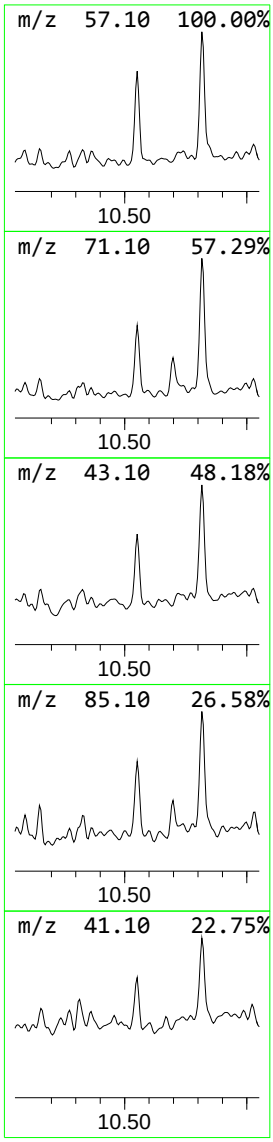
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Peak Number 4 Hexadecane, 2,6,10,14-tetra... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.551	2.75 ng	103081	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	72
2	Hentriacontane	437	C31H64	000630-04-6	72
3	Tetratetracontane	619	C44H90	007098-22-8	72
4	Octacosane	394	C28H58	000630-02-4	58
5	Tetracosane	338	C24H50	000646-31-1	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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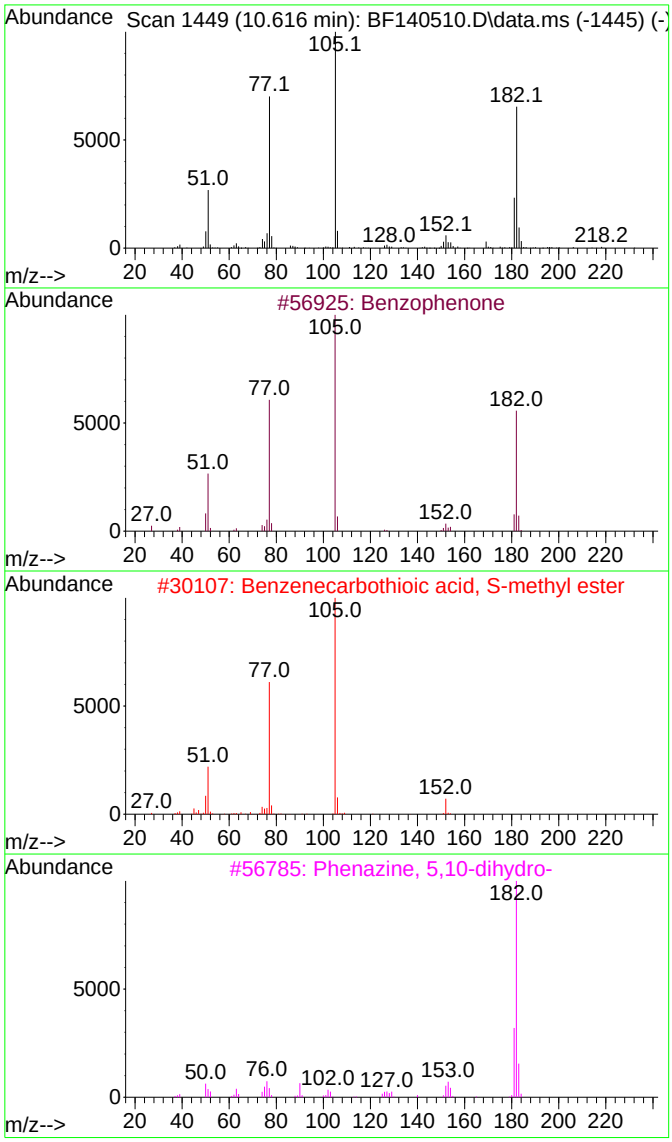
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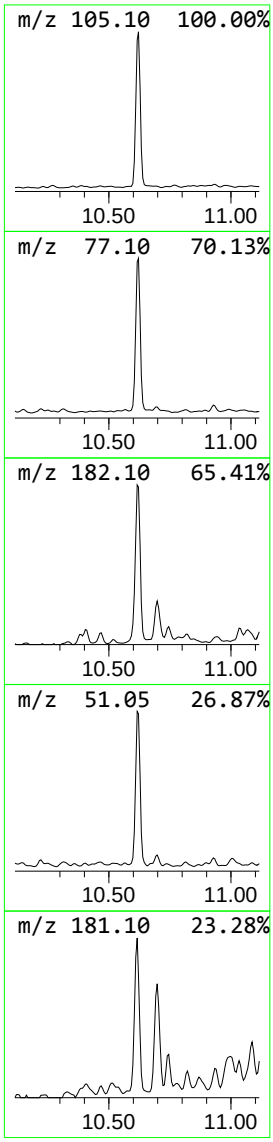
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Peak Number 5 Benzophenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	5.79 ng	216944	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	95
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
3	Phenazine, 5,10-dihydro-	182	C12H10N2	000613-32-1	43
4	Ethanedione, diphenyl-	210	C14H10O2	000134-81-6	38
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	38





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Sample : P4892-01
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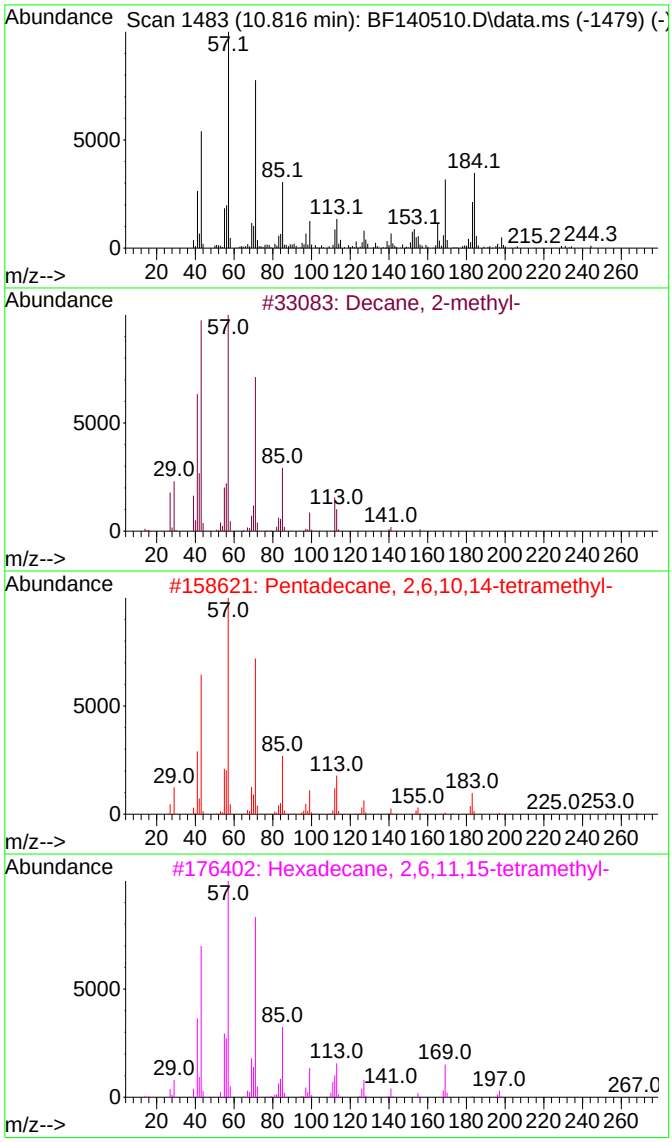
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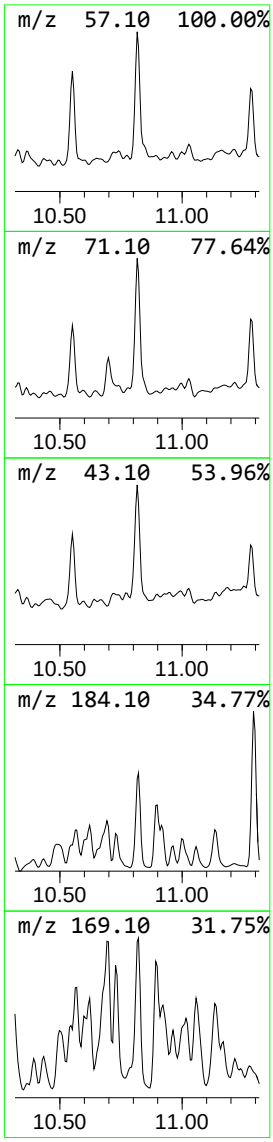
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Peak Number 6 Decane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.816	5.82 ng	211936	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2-methyl-	156	C11H24	006975-98-0	60
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	53
3	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	52
4	Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	50
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
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Sample : P4892-01
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Instrument :
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ClientSampleId :
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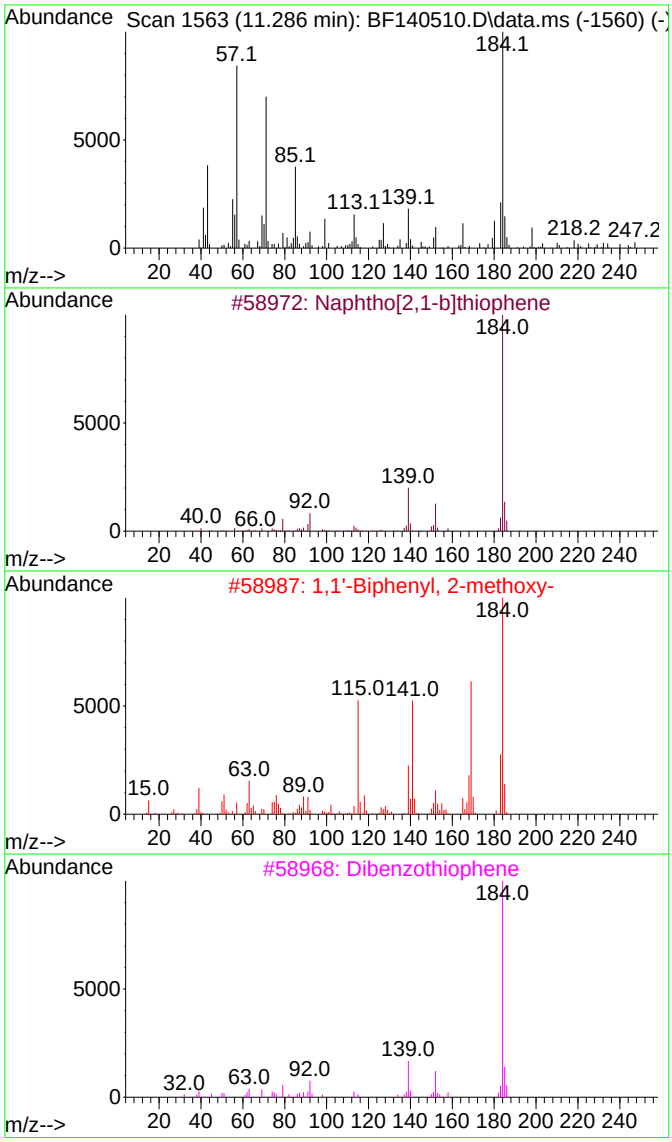
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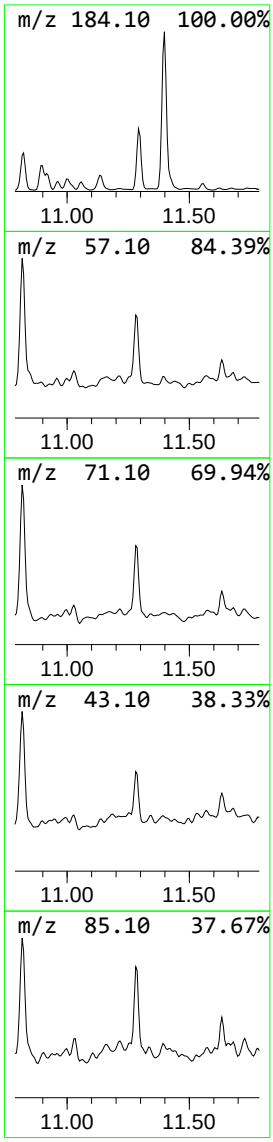
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Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.286	3.69 ng	134224	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	50
2	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	49
3	Dibenzothiophene	184	C12H8S	000132-65-0	45
4	5-Amino-4-cyano-1-phenylpyrazole	184	C10H8N4	005334-43-0	43
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
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Acq On : 20 Nov 2024 20:02
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Sample : P4892-01
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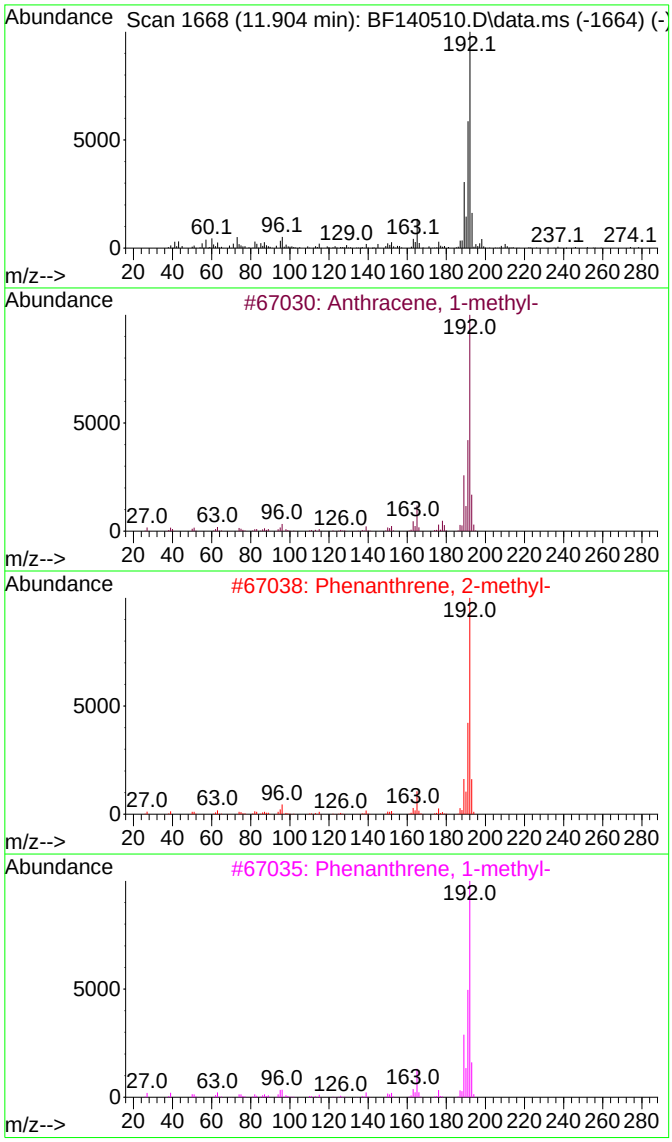
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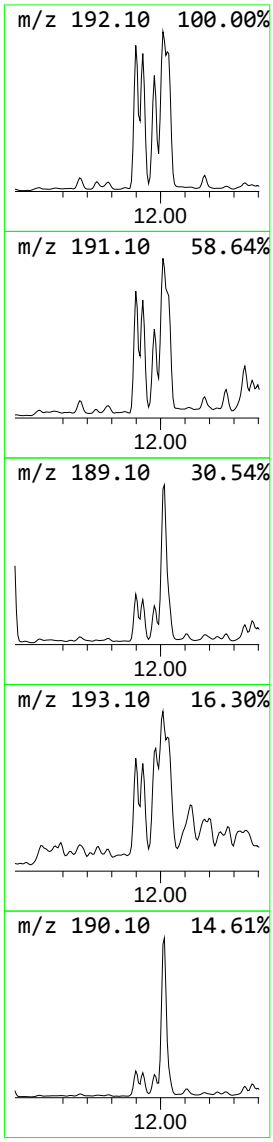
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Peak Number 8 Anthracene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.904	5.06 ng	184255	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
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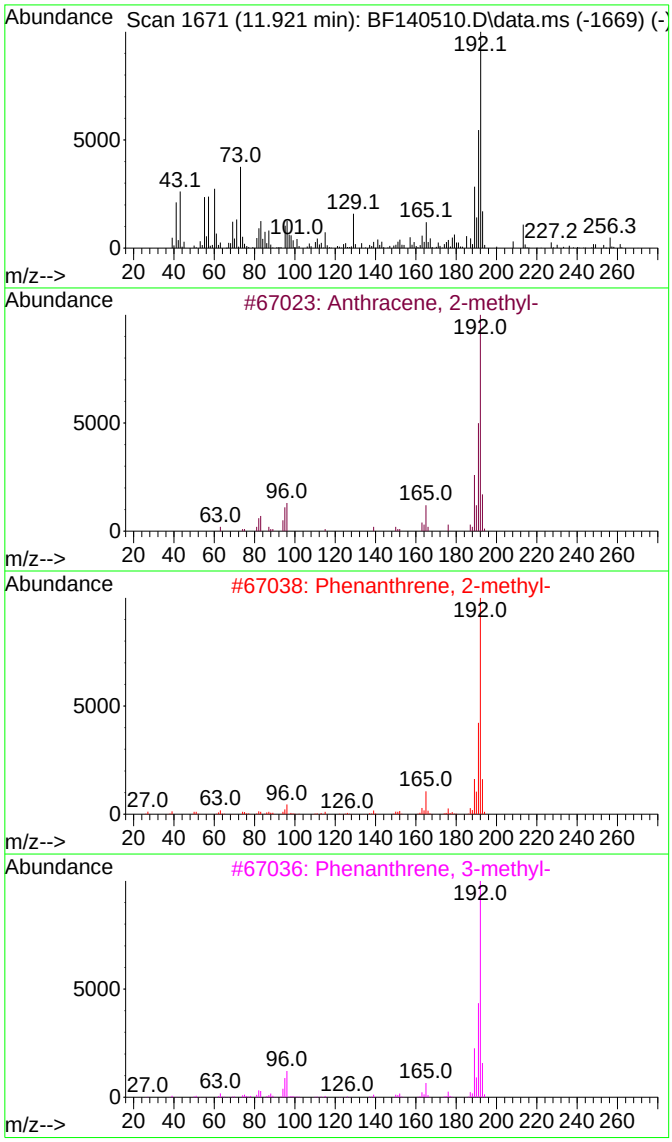
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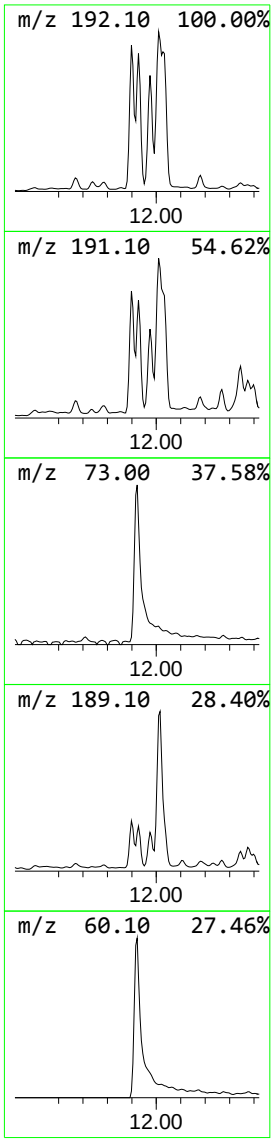
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Peak Number 9 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	8.44 ng	307174	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
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ALS Vial : 11 Sample Multiplier: 1

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ClientSampleId :
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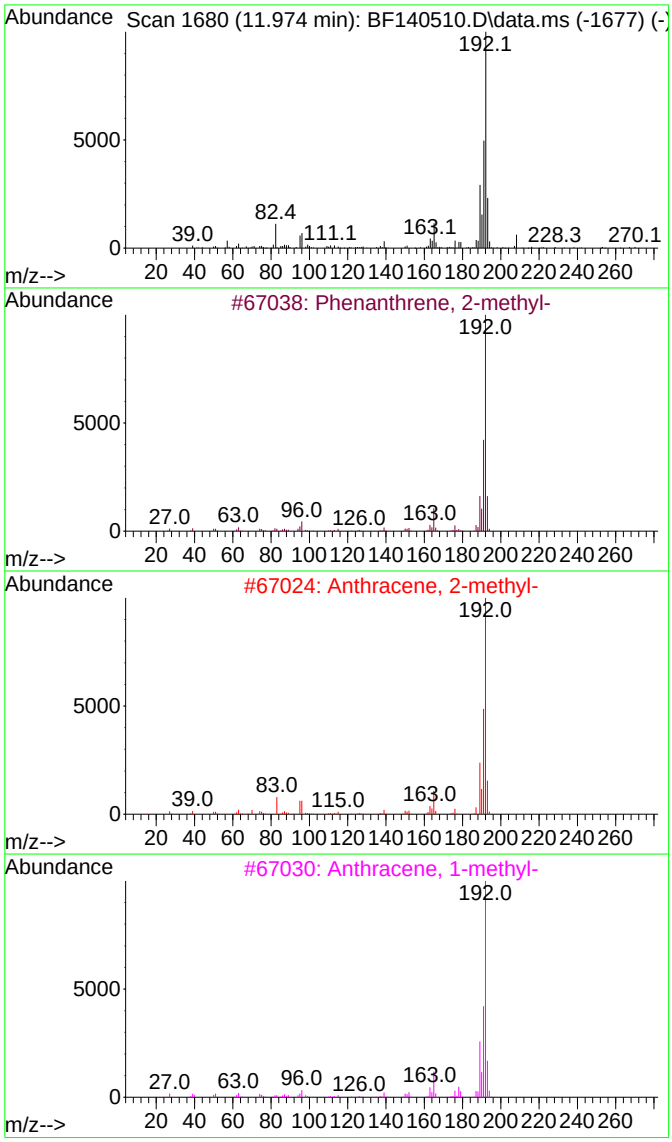
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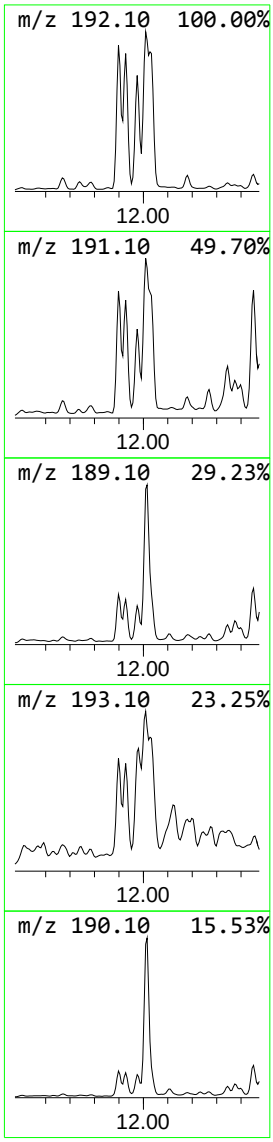
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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.974	5.21 ng	189625	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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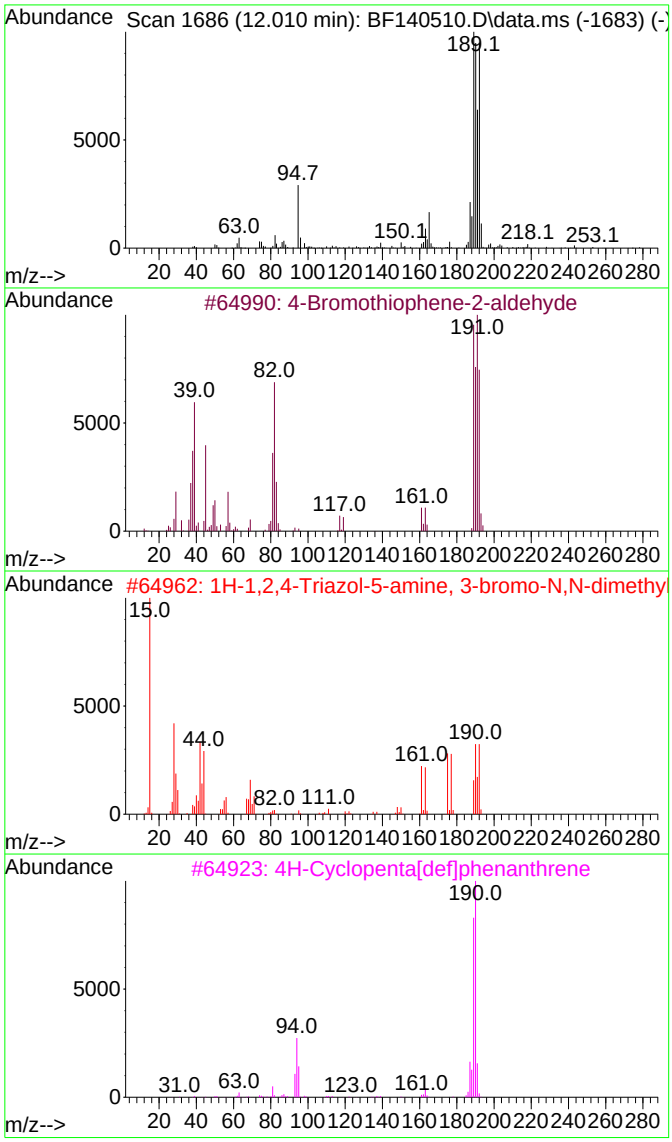
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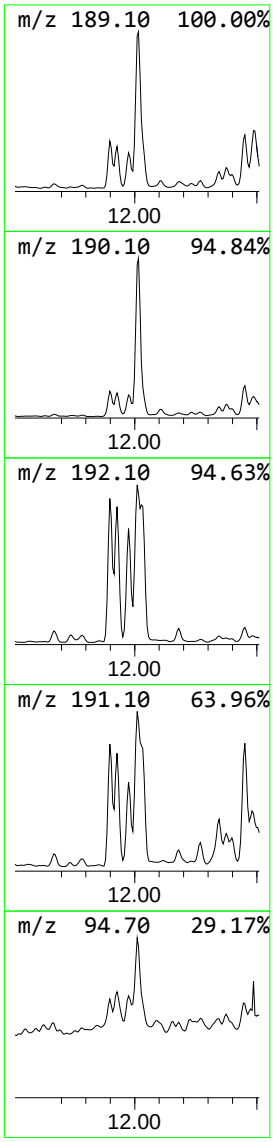
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Peak Number 11 4-Bromothiophene-2-aldehyde Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.010	15.15 ng	551709	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Bromothiophene-2-aldehyde	190	C5H3BrOS	018791-75-8	58
2	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	53
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	46
5	5-Amino-3-bromo-2-fluoropyridine	190	C5H4BrFN2	209328-99-4	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
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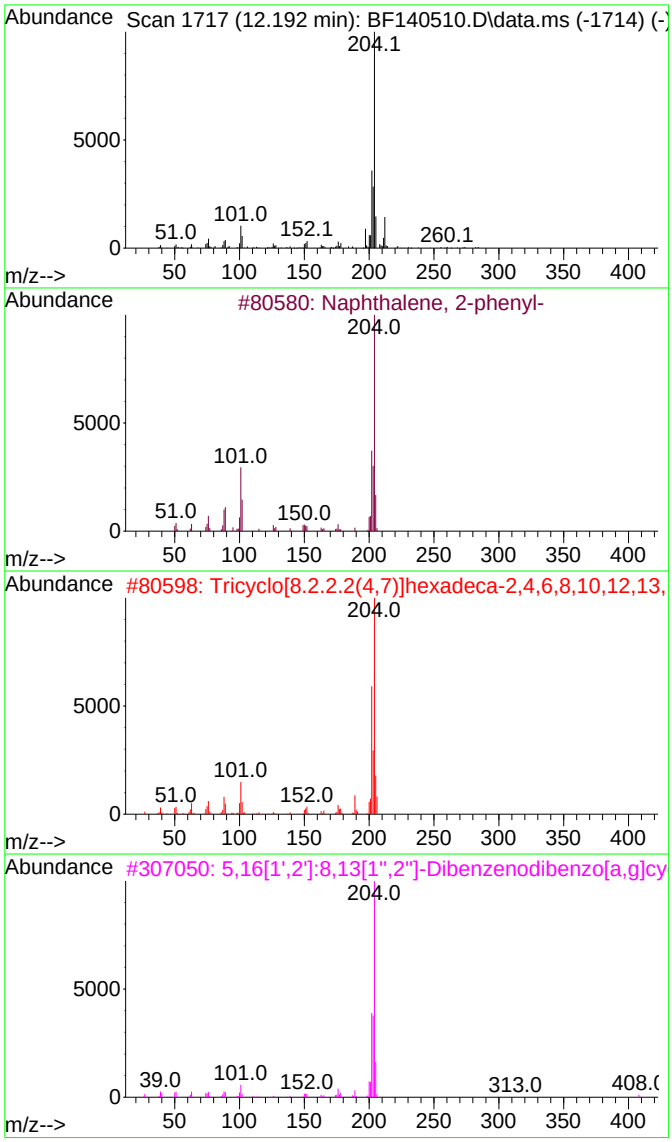
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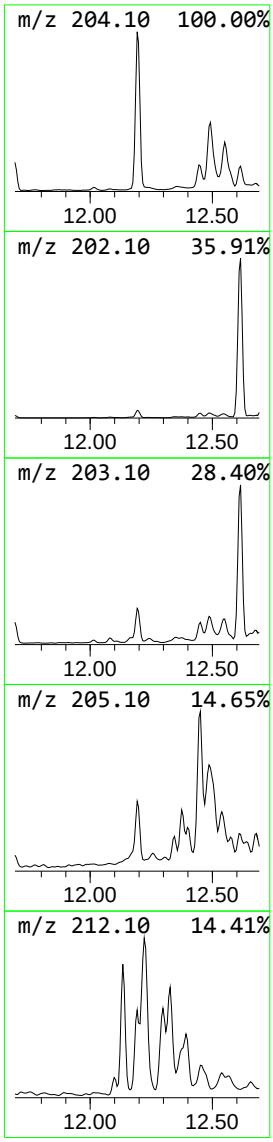
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Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.192	2.79 ng	101572	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
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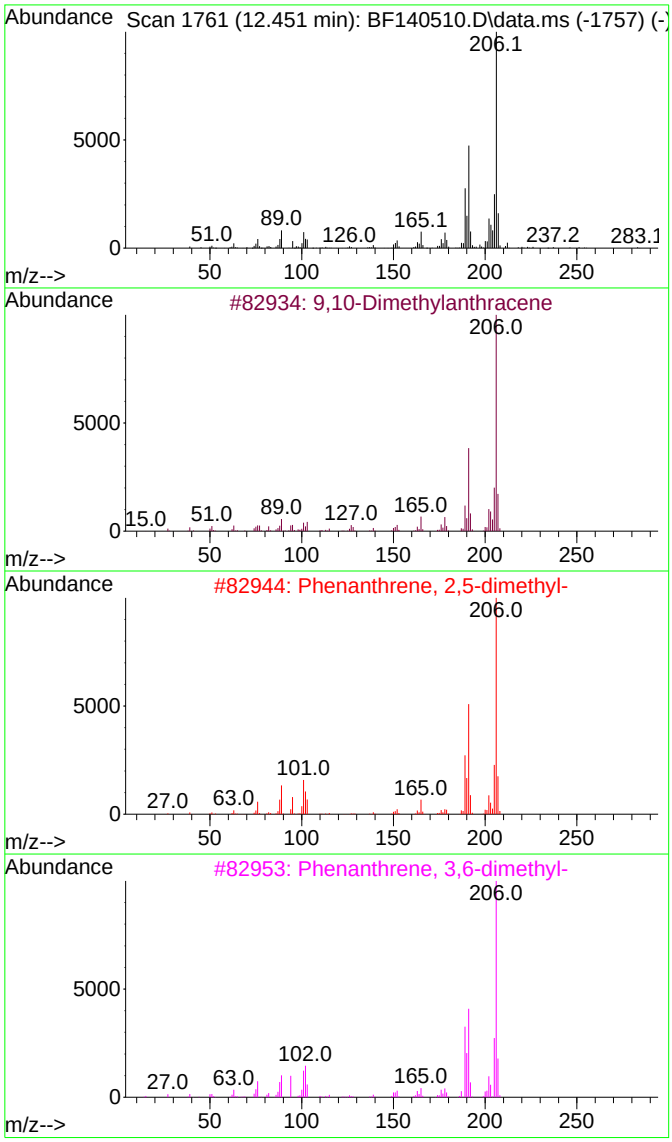
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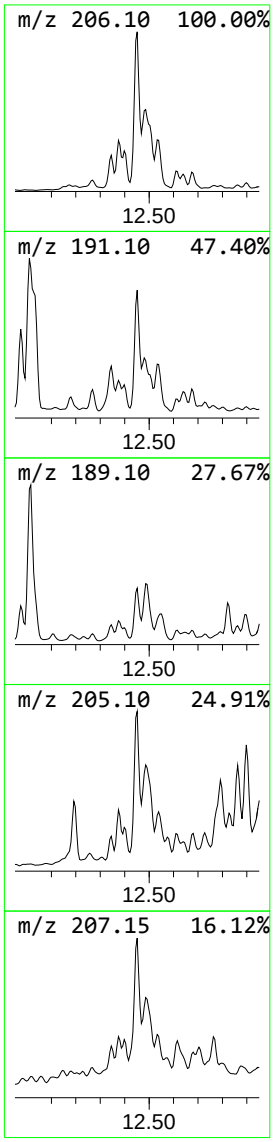
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Peak Number 13 9,10-Dimethylanthracene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.451	7.69 ng	280083	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
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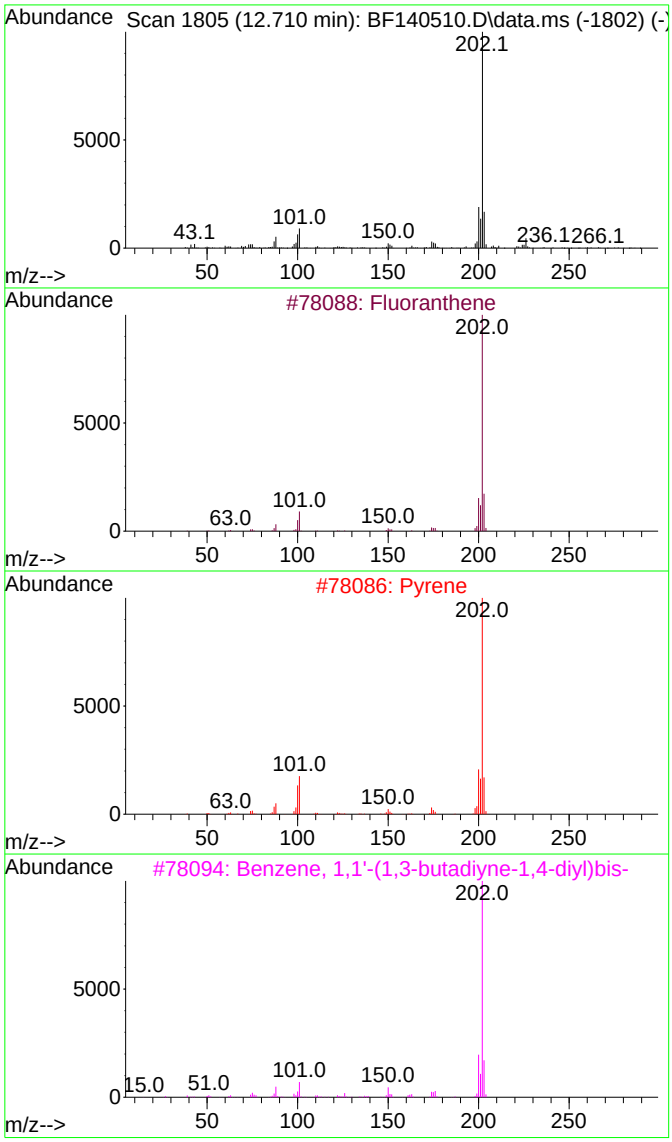
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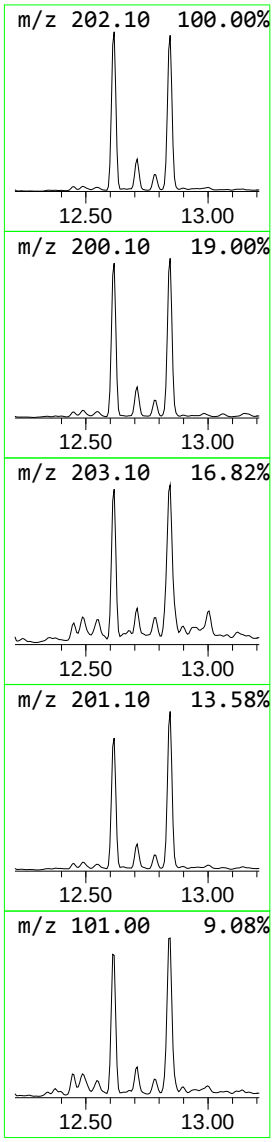
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Peak Number 14 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	4.88 ng	177513	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	95
2	Pyrene	202	C16H10	000129-00-0	89
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	81
4	l-Leucine, N-methyl-N-(2-methoxy...	443	C25H49NO5	1000328-54-8	53
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
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Operator : RC/JU
Sample : P4892-01
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

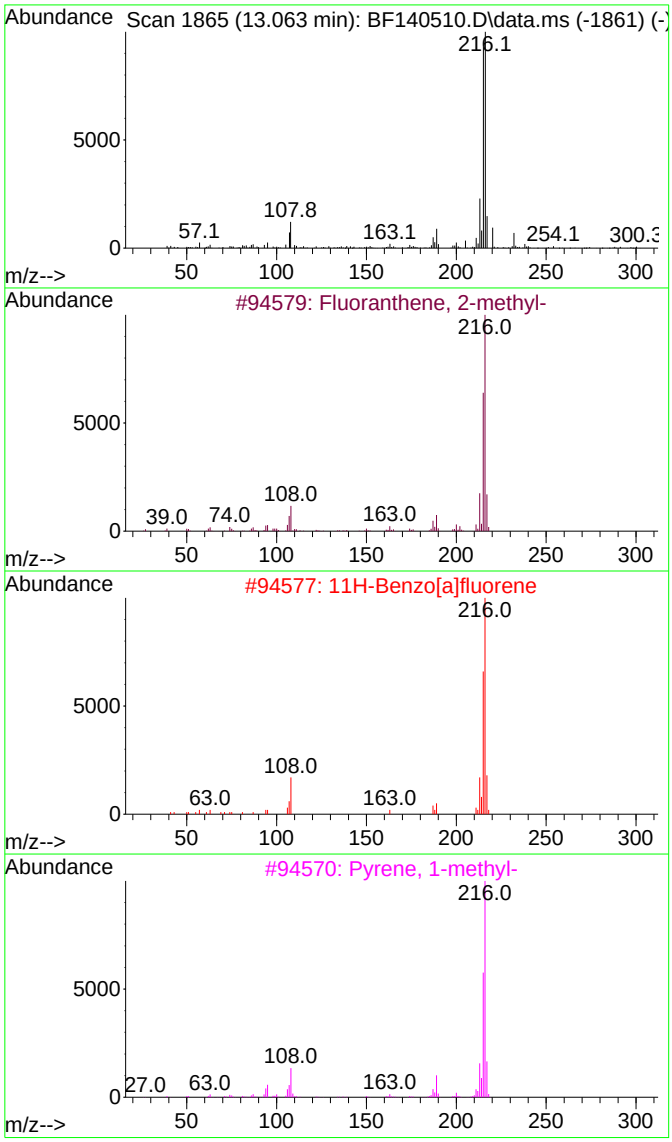
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

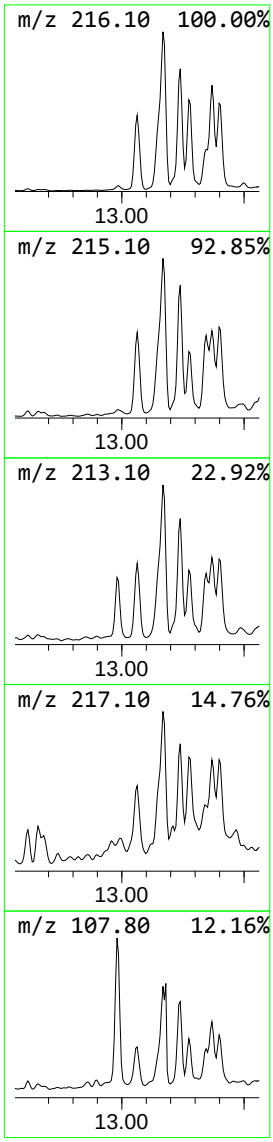
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Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.063	3.22 ng	229936	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	86
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
5	Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

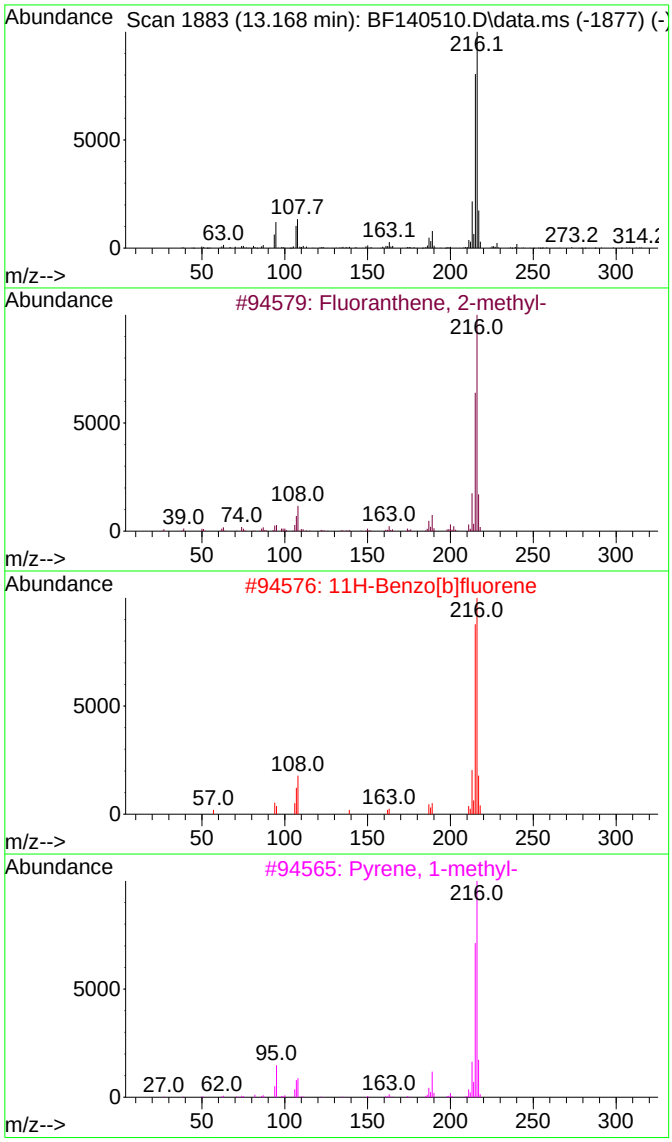
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TIC Integration Parameters: LSCINT.P

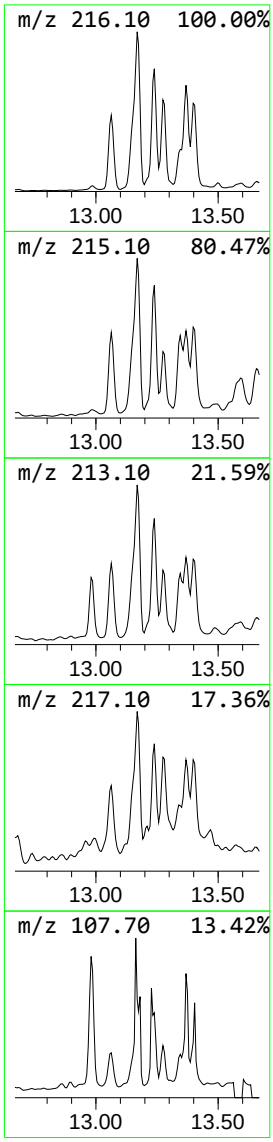
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Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.169	6.39 ng	457078	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

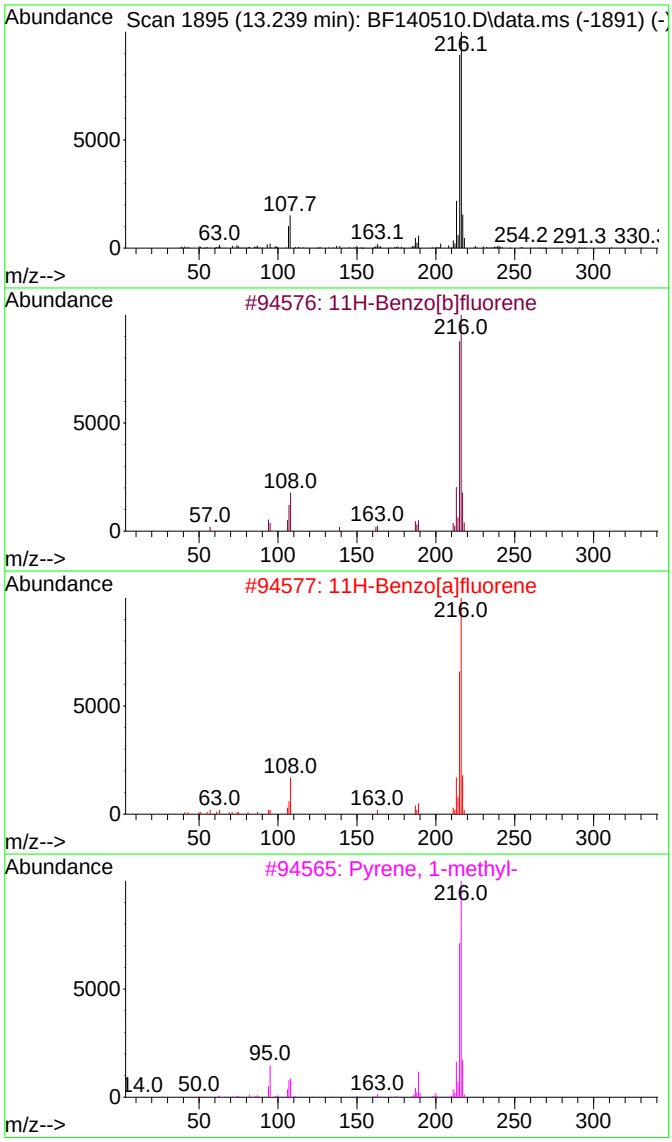
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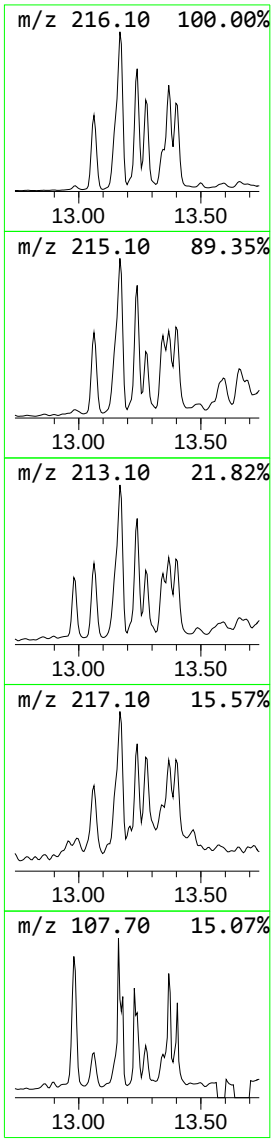
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Peak Number 17 11H-Benzo[a]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.239	3.43 ng	245419	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

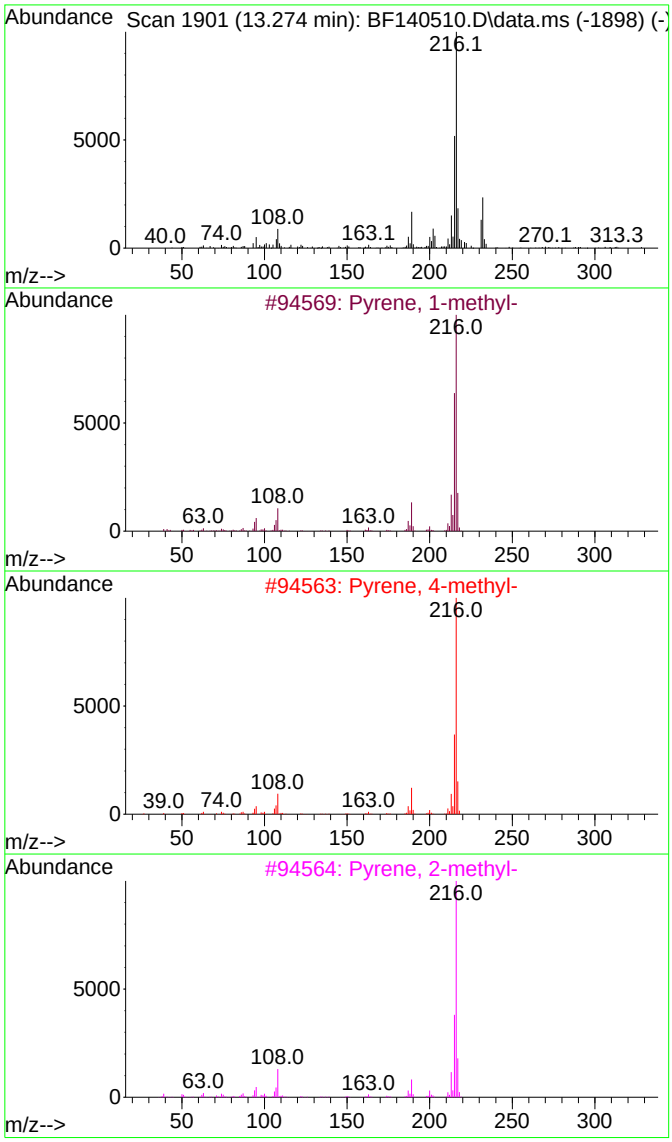
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TIC Integration Parameters: LSCINT.P

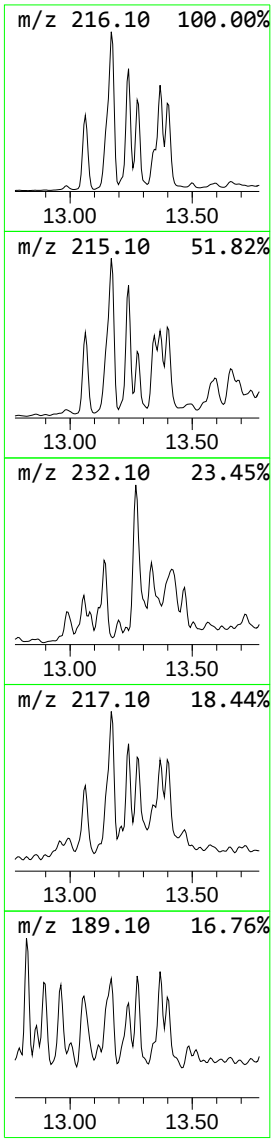
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Peak Number 18 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.274	3.31 ng	236592	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	4,6-Dimethoxy-1-naphthaldehyde	216	C13H12O3	065565-33-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

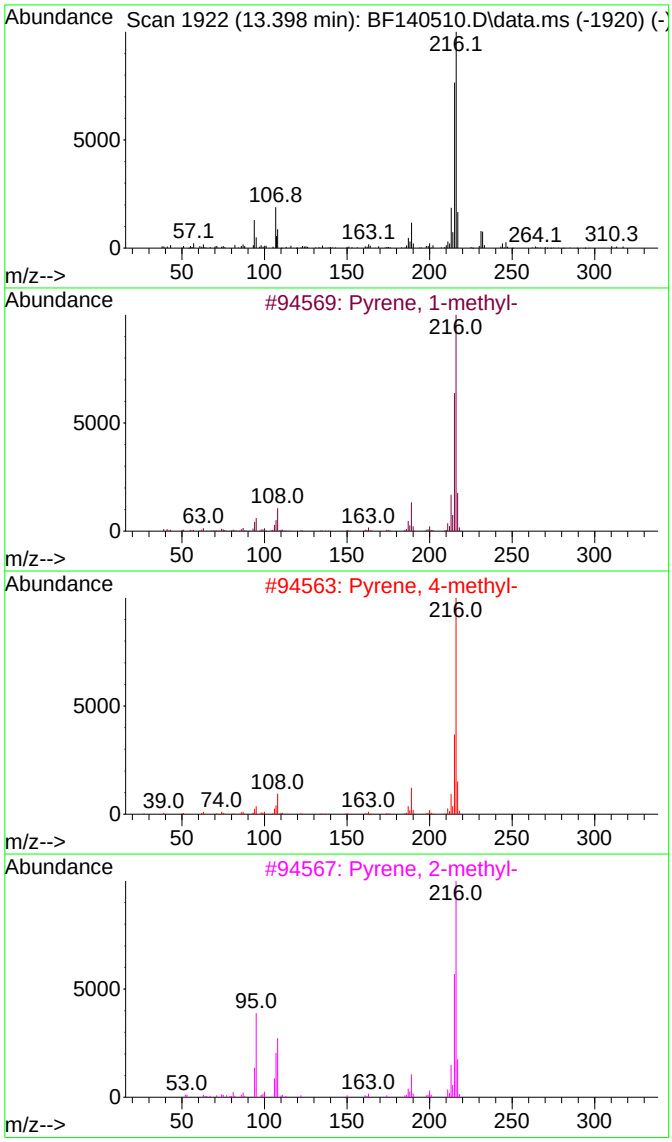
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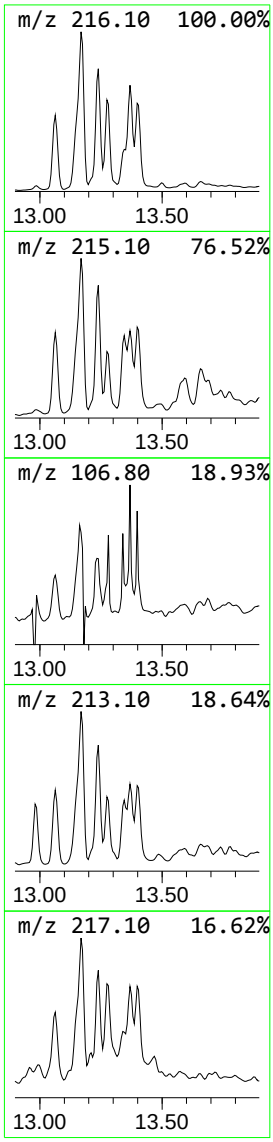
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Peak Number 19 Pyrene, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.398	2.86 ng	204877	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

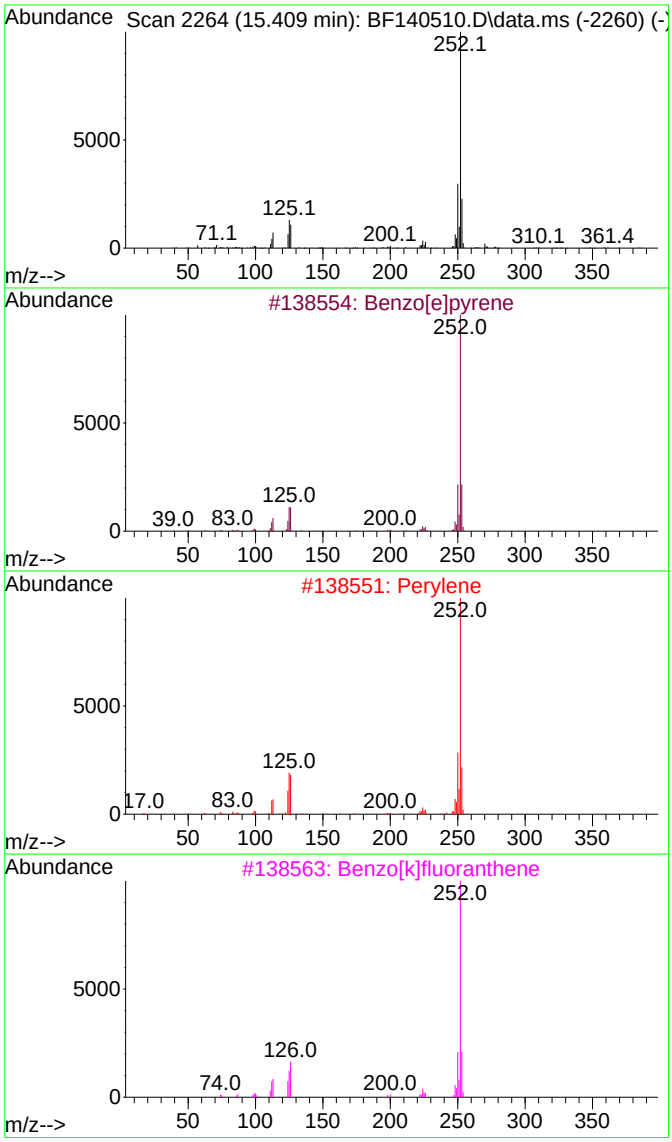
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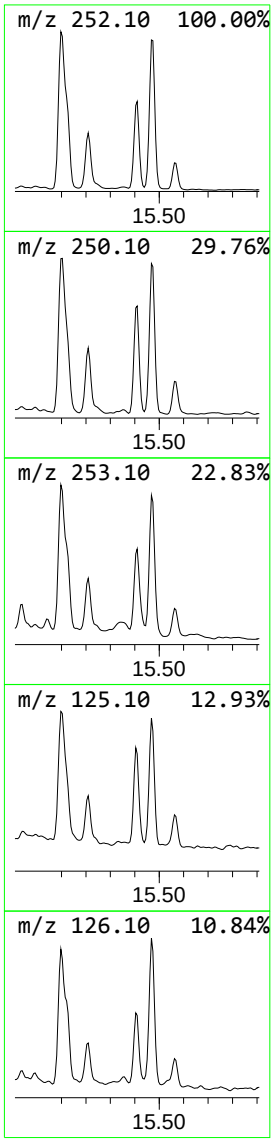
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Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.410	7.27 ng	259882	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.152	37.5	ng	1211510	1	6.875	646557	20.0
unknown9.616	9.616	4.8	ng	180741	3	9.904	749131	20.0
Naphthalene, 2,...	10.316	3.2	ng	120901	3	9.904	749131	20.0
Hexadecane, 2,6...	10.551	2.8	ng	103081	3	9.904	749131	20.0
Benzophenone	10.616	5.8	ng	216944	3	9.904	749131	20.0
Decane, 2-methyl-	10.816	5.8	ng	211936	4	11.398	728136	20.0
Naphtho[2,1-b]t...	11.286	3.7	ng	134224	4	11.398	728136	20.0
Anthracene, 1-m...	11.904	5.1	ng	184255	4	11.398	728136	20.0
Anthracene, 2-m...	11.922	8.4	ng	307174	4	11.398	728136	20.0
Phenanthrene, 2...	11.974	5.2	ng	189625	4	11.398	728136	20.0
4-Bromothiophen...	12.010	15.2	ng	551709	4	11.398	728136	20.0
Naphthalene, 2-...	12.192	2.8	ng	101572	4	11.398	728136	20.0
9,10-Dimethylan...	12.451	7.7	ng	280083	4	11.398	728136	20.0
Benzene, 1,1'-(...	12.710	4.9	ng	177513	4	11.398	728136	20.0
Fluoranthene, 2...	13.063	3.2	ng	229936	5	14.045	1430340	20.0
11H-Benzo[b]flu...	13.169	6.4	ng	457078	5	14.045	1430340	20.0
11H-Benzo[a]flu...	13.239	3.4	ng	245419	5	14.045	1430340	20.0
Pyrene, 1-methyl-	13.274	3.3	ng	236592	5	14.045	1430340	20.0
Pyrene, 4-methyl-	13.398	2.9	ng	204877	5	14.045	1430340	20.0
Benzo[e]pyrene	15.410	7.3	ng	259882	6	15.533	714526	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 20 13:09:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

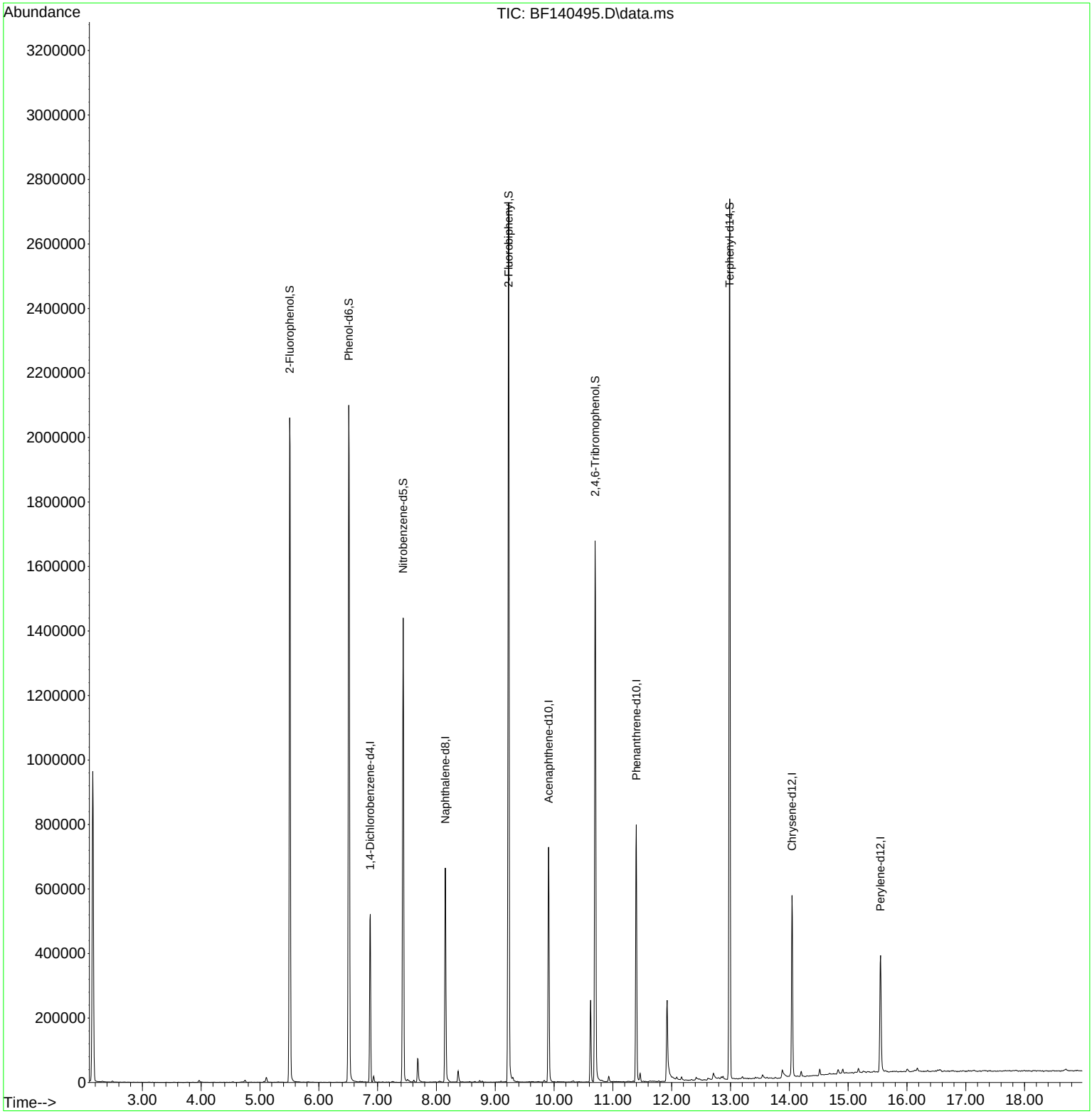
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	111857	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	425828	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	234373	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	439035	20.000	ng	0.00
76) Chrysene-d12	14.045	240	271644	20.000	ng	0.00
86) Perylene-d12	15.551	264	222745	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	795934	121.491	ng	0.01
7) Phenol-d6	6.510	99	1040588	117.236	ng	0.00
23) Nitrobenzene-d5	7.434	82	668507	81.796	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	294494	126.357	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1244669	85.371	ng	0.00
79) Terphenyl-d14	12.986	244	1374393	87.823	ng	0.00
Target Compounds						Qvalue

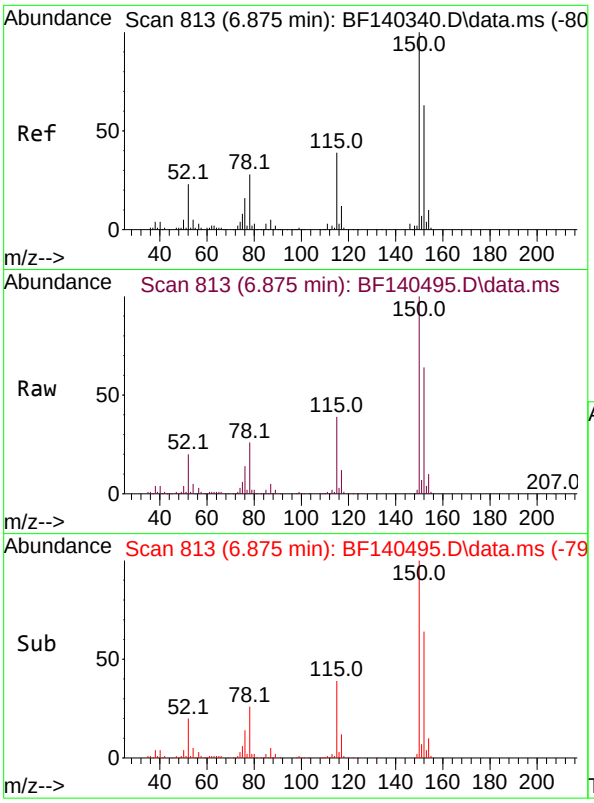
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 20 13:09:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



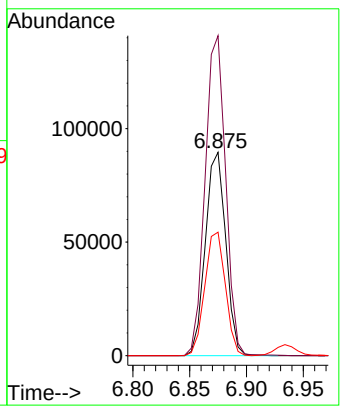


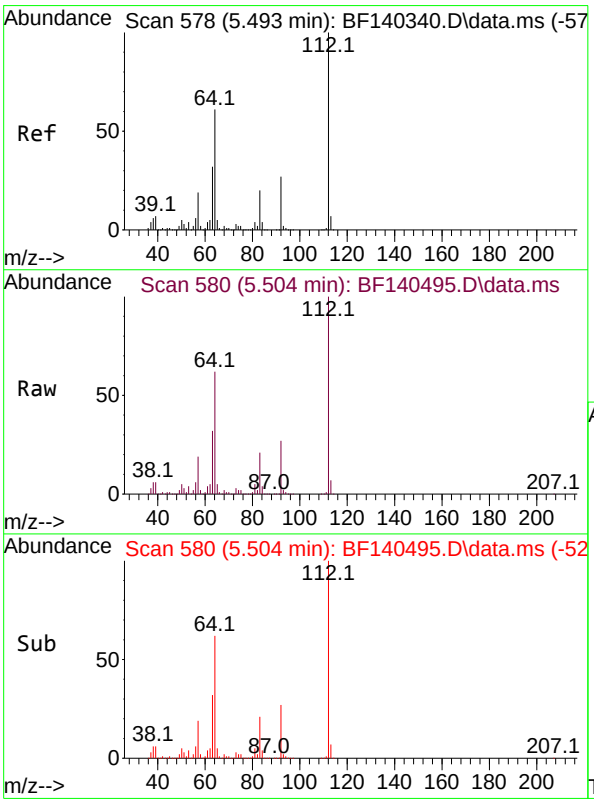
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:152 Resp: 111857

Ion	Ratio	Lower	Upper
152	100		
150	157.4	127.4	191.0
115	60.7	47.4	71.2

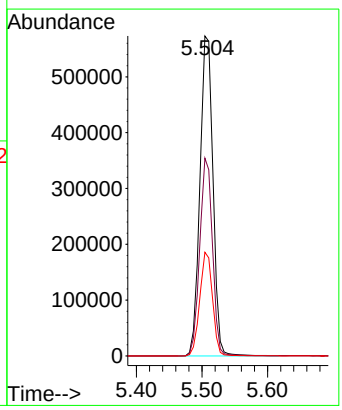


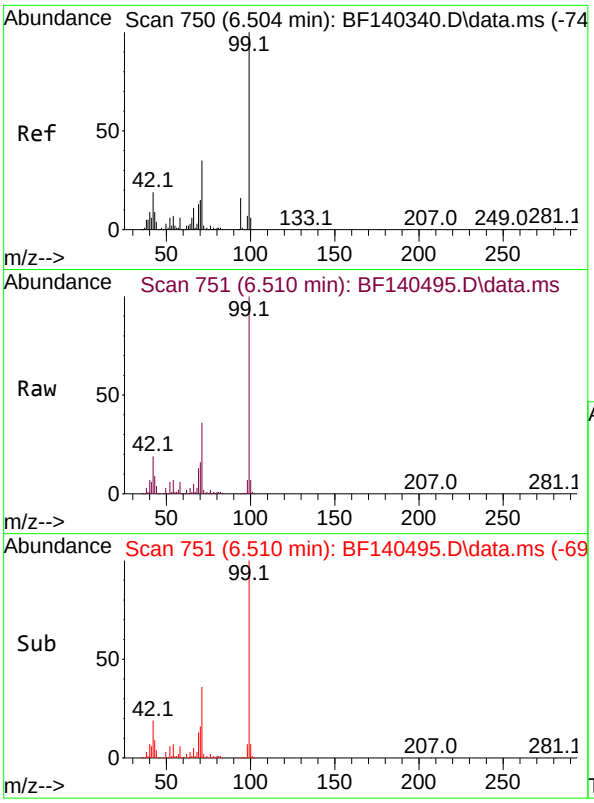


#5
2-Fluorophenol
Concen: 121.491 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:112 Resp: 795934

Ion	Ratio	Lower	Upper
112	100		
64	61.8	49.2	73.8
63	32.4	25.6	38.4



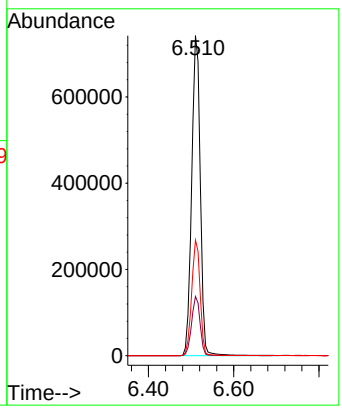


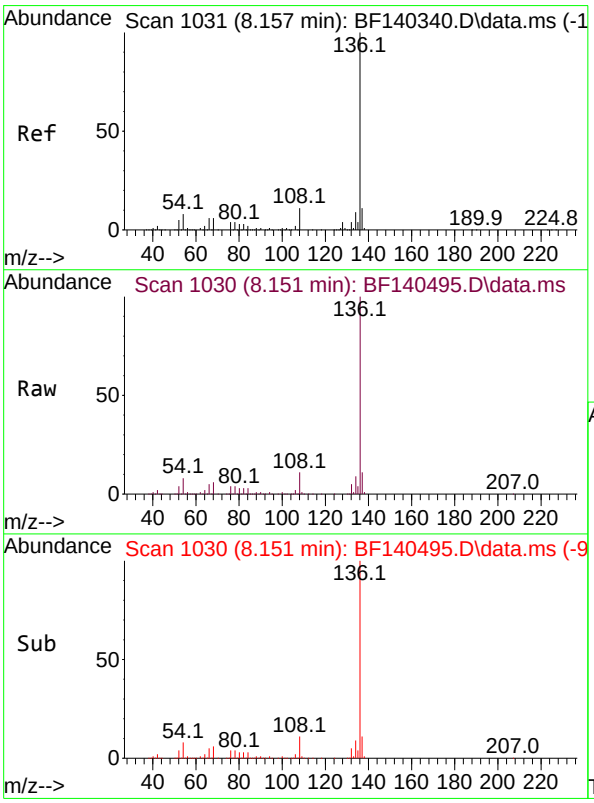
#7
Phenol-d6
Concen: 117.236 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion: 99 Resp: 1040588

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.1	22.7
71	36.1	27.9	41.9

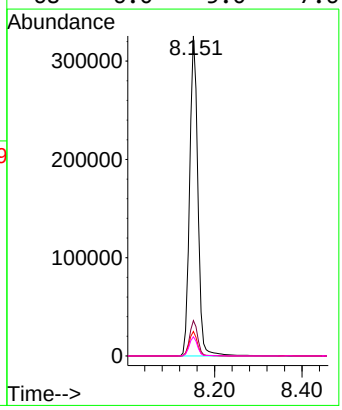


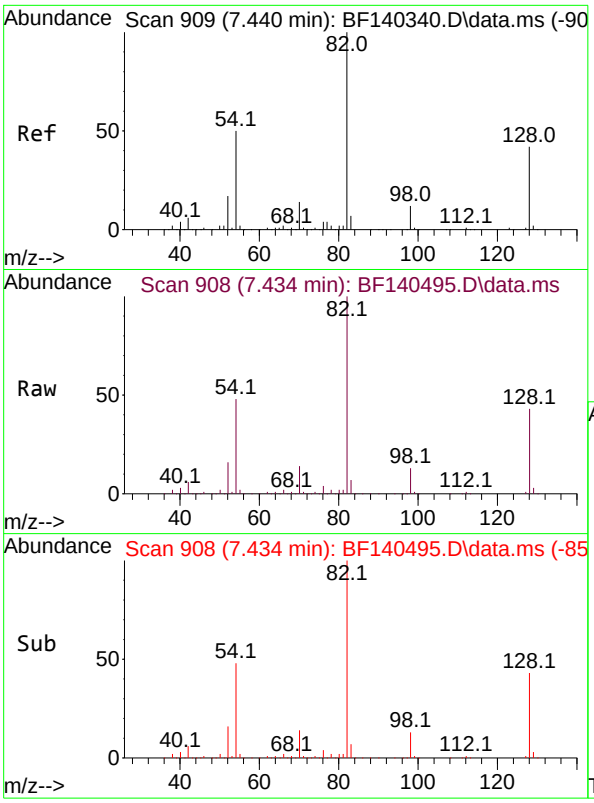


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:136 Resp: 425828

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	7.6	6.5	9.7
68	6.0	5.0	7.6



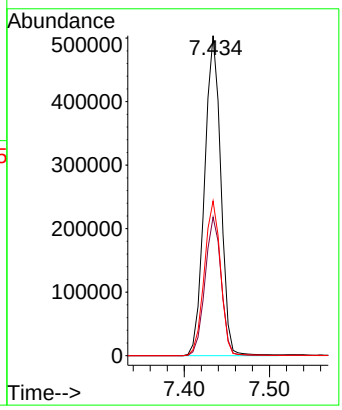


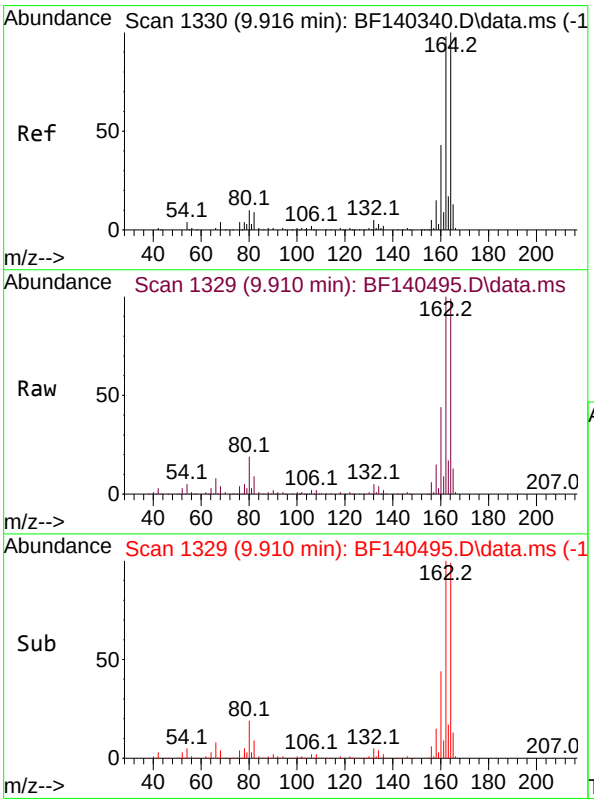
#23
Nitrobenzene-d5
Concen: 81.796 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion: 82 Resp: 668507

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.3	49.9
54	48.4	39.8	59.8

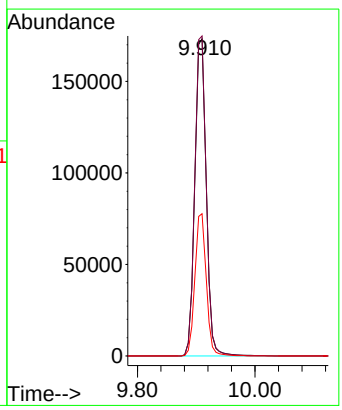


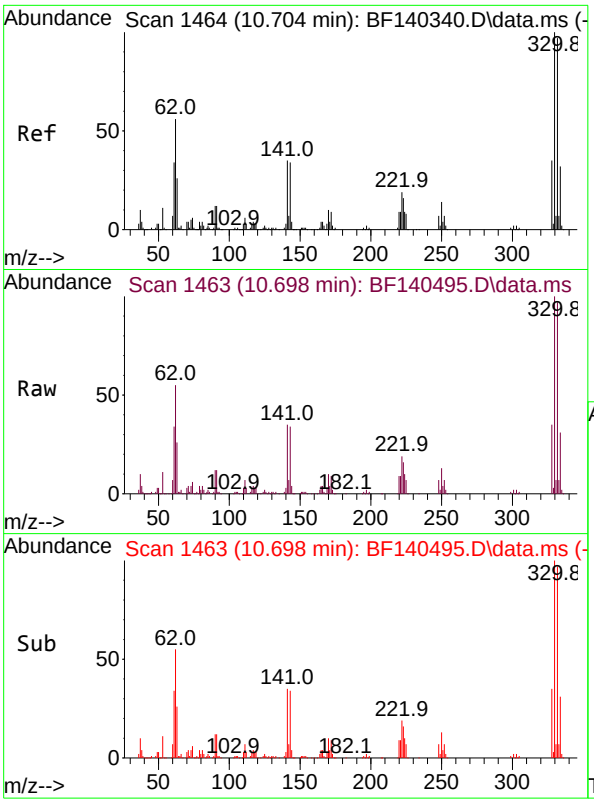


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:164 Resp: 234373

Ion	Ratio	Lower	Upper
164	100		
162	100.9	79.8	119.8
160	44.9	35.4	53.0



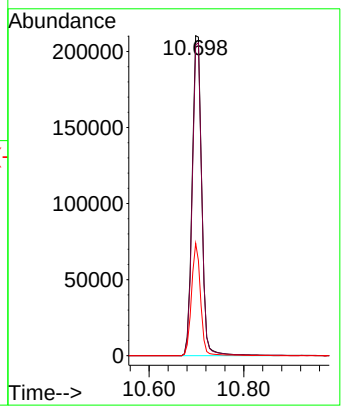


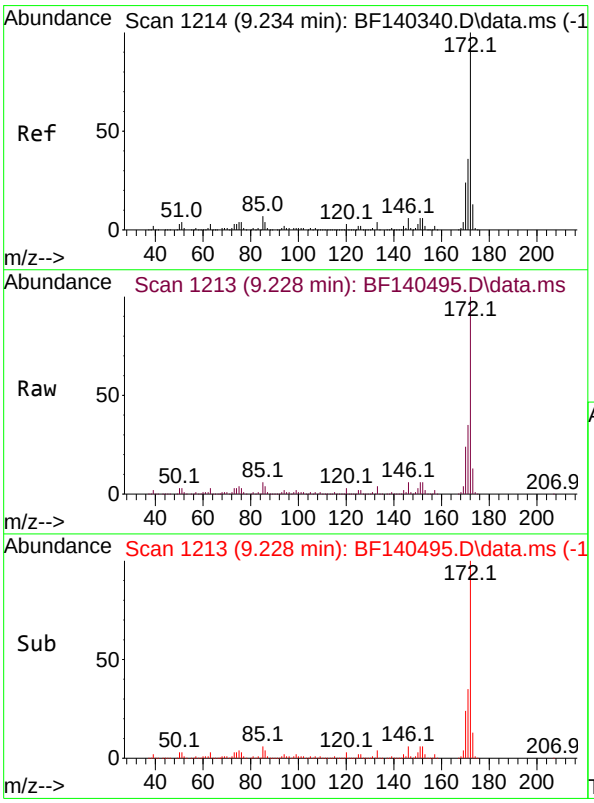
#42
2,4,6-Tribromophenol
Concen: 126.357 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:330 Resp: 294494

Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.9	113.9
141	33.4	26.9	40.3

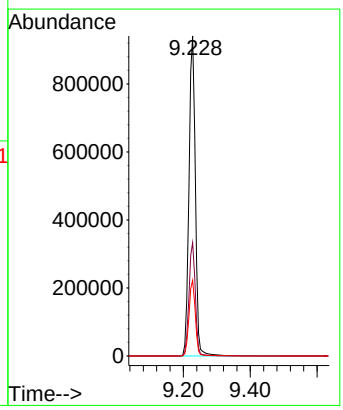


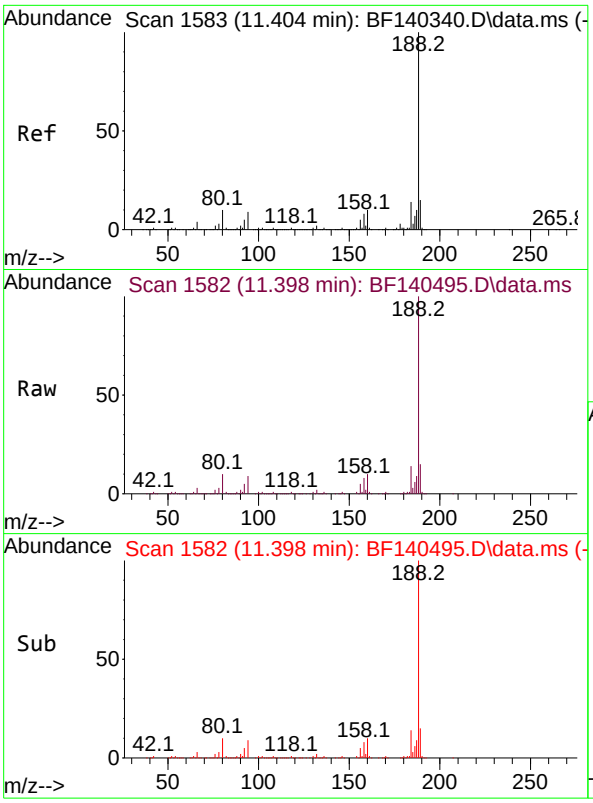


#45
2-Fluorobiphenyl
Concen: 85.371 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:172 Resp: 1244669

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.6	19.1	28.7



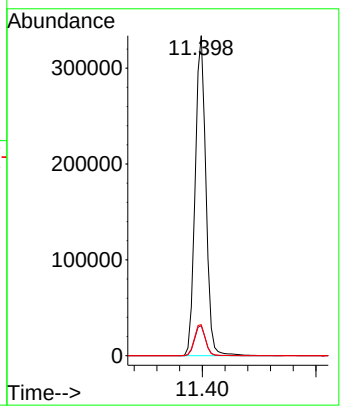


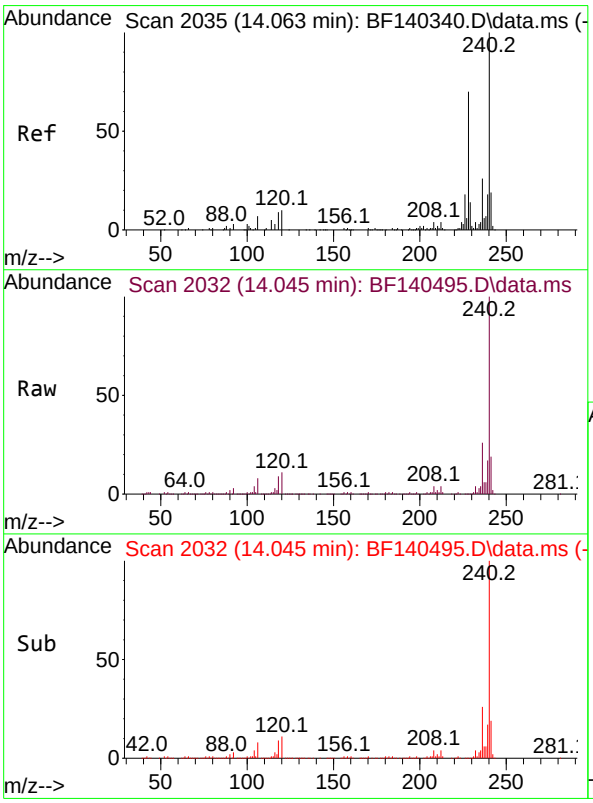
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:188 Resp: 439035

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	9.7	8.0	12.0

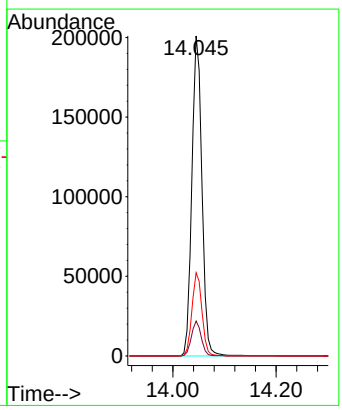


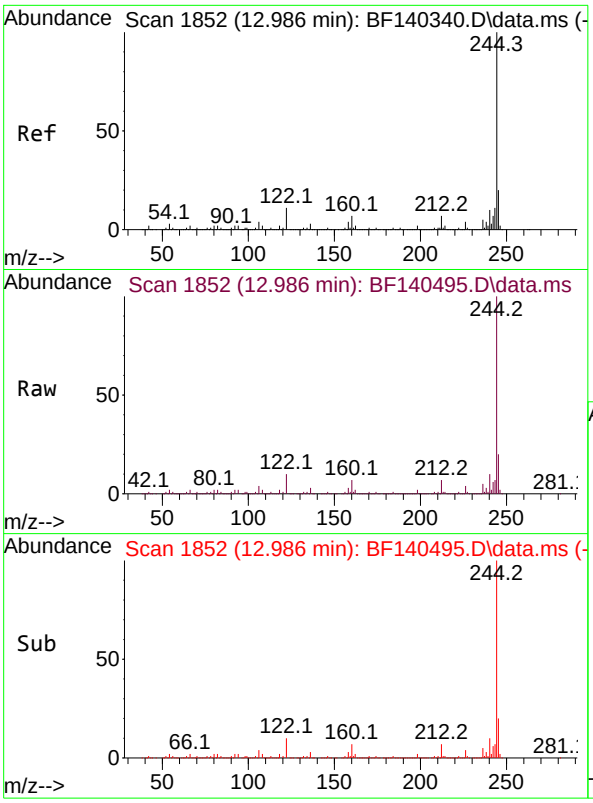


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:240 Resp: 271644

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.8	13.2
236	26.0	20.9	31.3



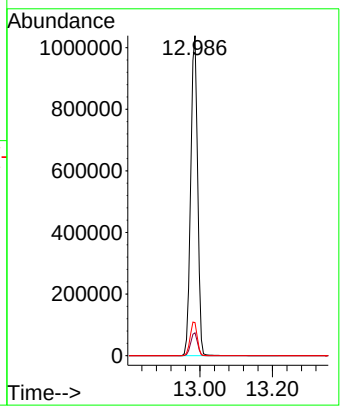


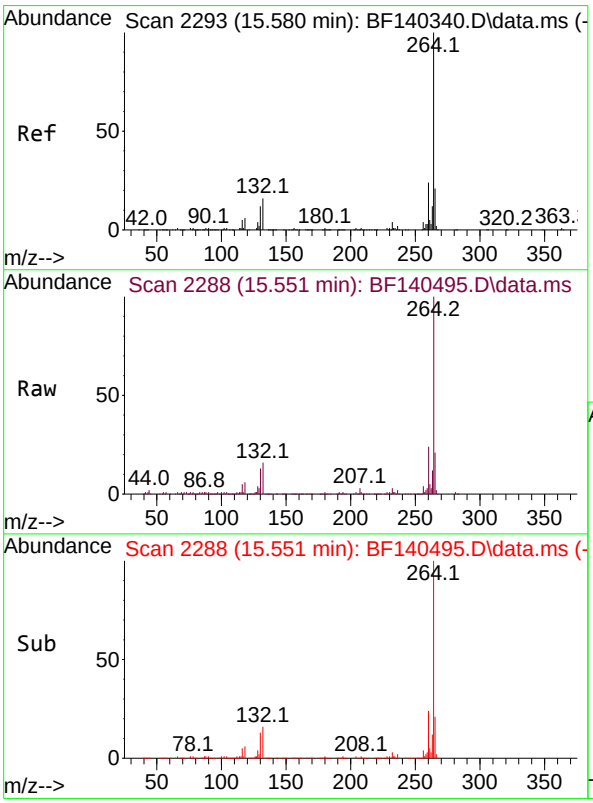
#79
Terphenyl-d14
Concen: 87.823 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:244 Resp: 1374393

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.3	8.8	13.2

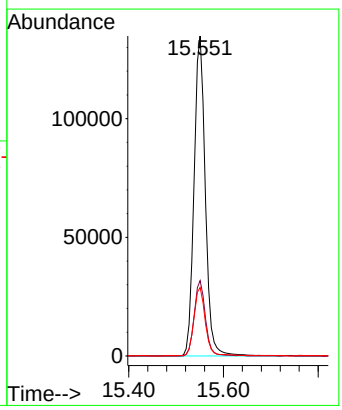




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:264 Resp: 222745

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.4	17.1	25.7



Sample Results: **BF140495.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140495.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.158	3	11	25	rVB	961839	1514958	41.71%	6.144%
2	5.504	574	580	602	rBV	2060043	2824414	77.77%	11.455%
3	6.510	742	751	778	rBV	2098646	2973216	81.86%	12.058%
4	6.875	807	813	818	rBV	521108	657131	18.09%	2.665%
5	7.434	902	908	913	rBV	1439295	1894397	52.16%	7.683%
6	7.681	945	950	965	rBV	72806	109333	3.01%	0.443%
7	8.151	1025	1030	1047	rVB	664045	866527	23.86%	3.514%
8	8.369	1063	1067	1076	rVB	33606	49083	1.35%	0.199%
9	9.228	1207	1213	1223	rBV	2727335	3582705	98.65%	14.530%
10	9.910	1323	1329	1342	rBV	727184	987254	27.18%	4.004%
11	10.622	1445	1450	1458	rBV	253937	316813	8.72%	1.285%
12	10.698	1458	1463	1479	rBV	1676982	2267667	62.44%	9.197%
13	11.398	1576	1582	1589	rBV	796495	1044536	28.76%	4.236%
14	11.922	1665	1671	1685	rBV	251454	452219	12.45%	1.834%
15	12.710	1800	1805	1815	rBV6	18827	45413	1.25%	0.184%
16	12.986	1846	1852	1857	rBV	2729981	3631883	100.00%	14.729%
17	13.880	1999	2004	2019	rBV3	23856	73627	2.03%	0.299%
18	14.045	2024	2032	2044	rVV	561882	769095	21.18%	3.119%
19	15.551	2282	2288	2299	rBV	360431	597367	16.45%	2.423%

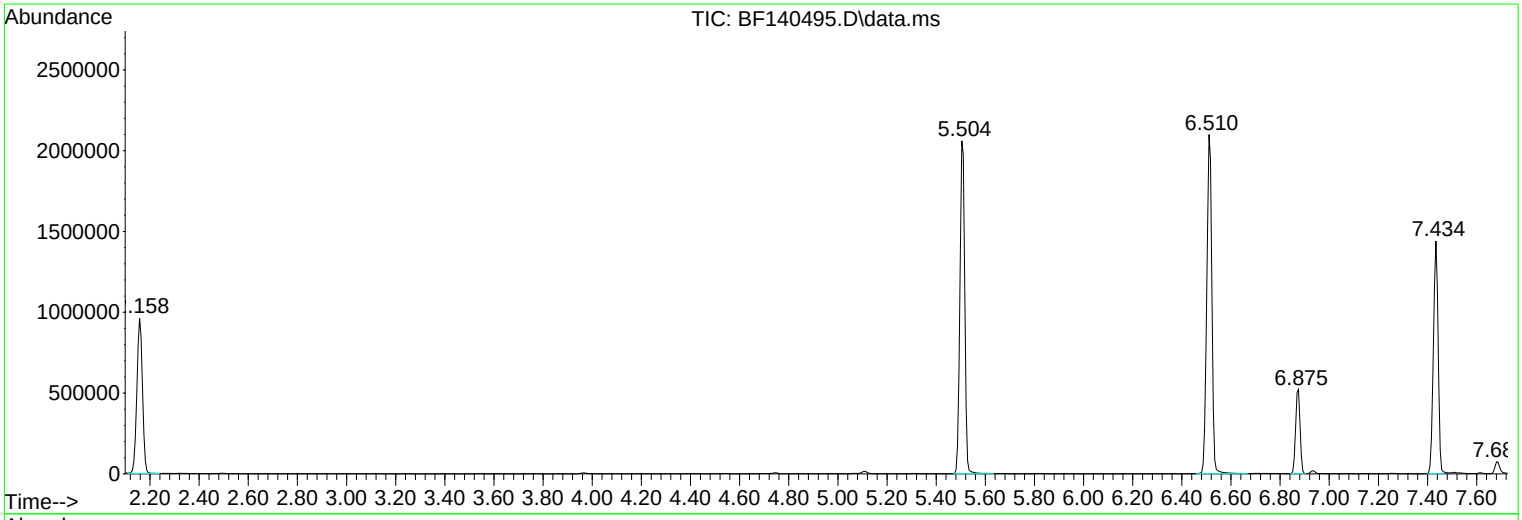
Sum of corrected areas: 24657638

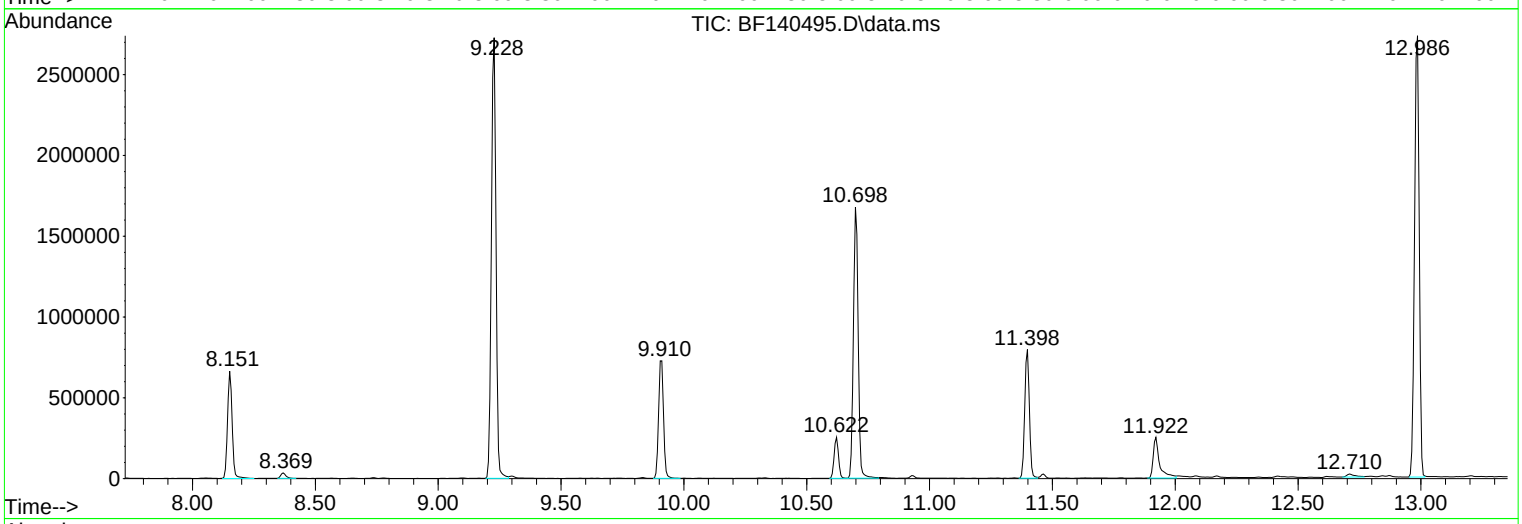
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

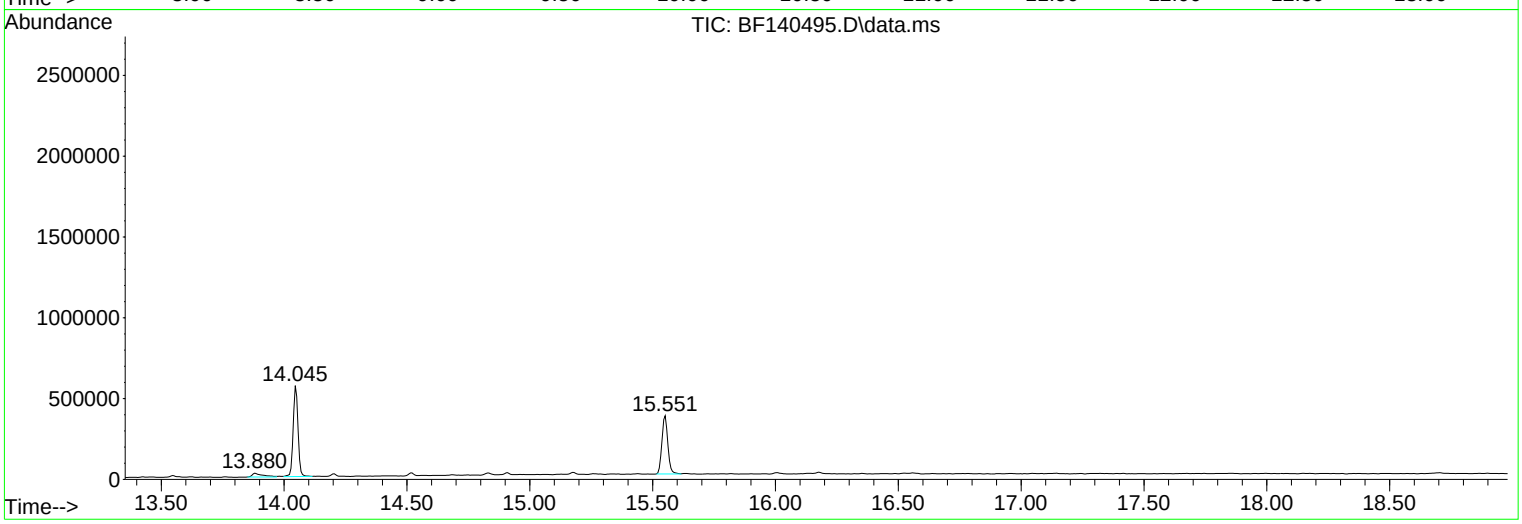
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

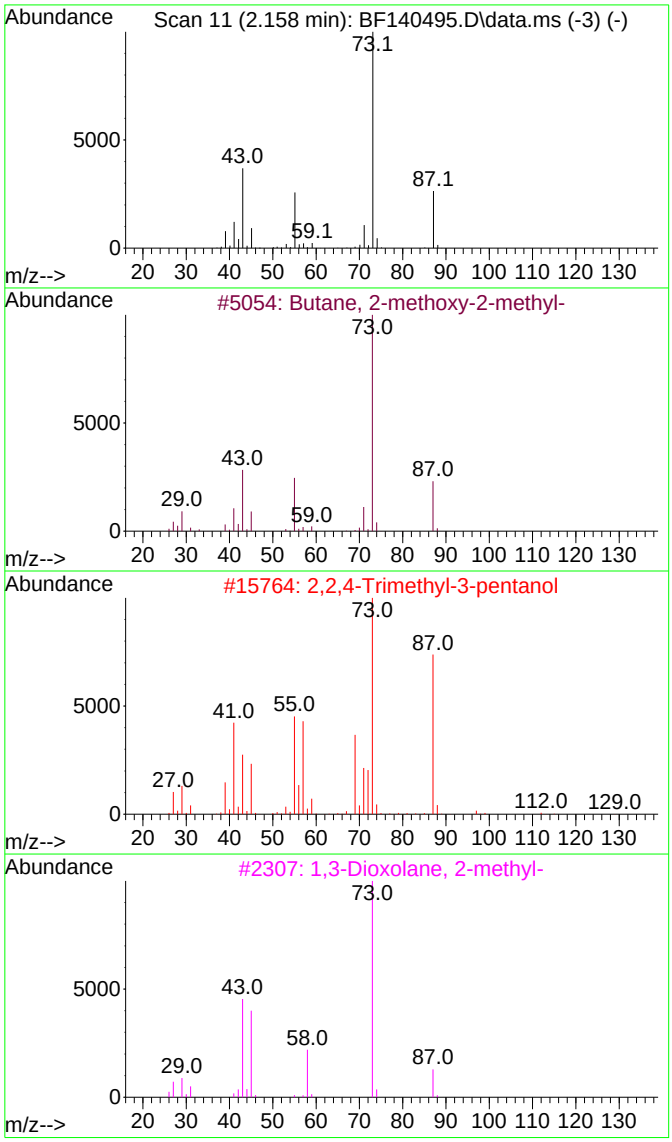
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

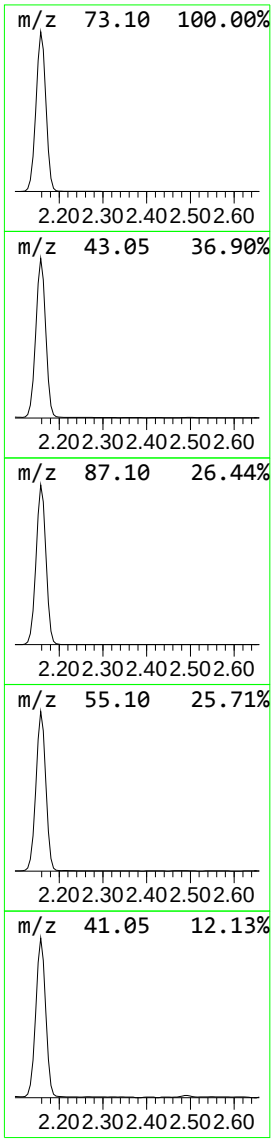
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.158	46.11 ng	1514960	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	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	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\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

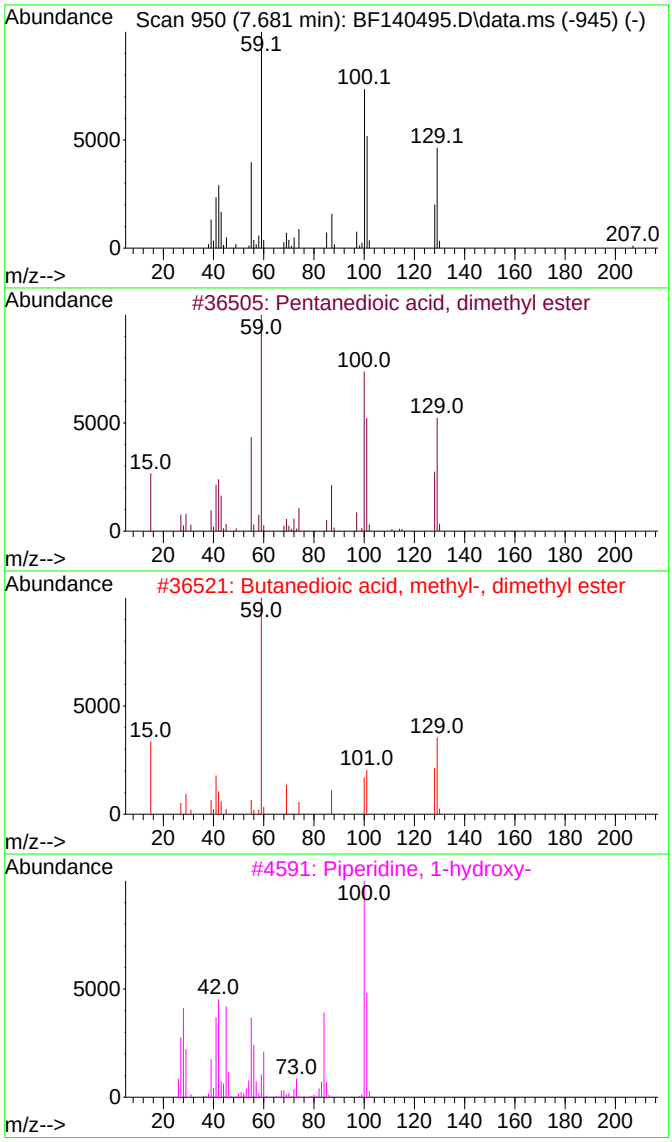
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

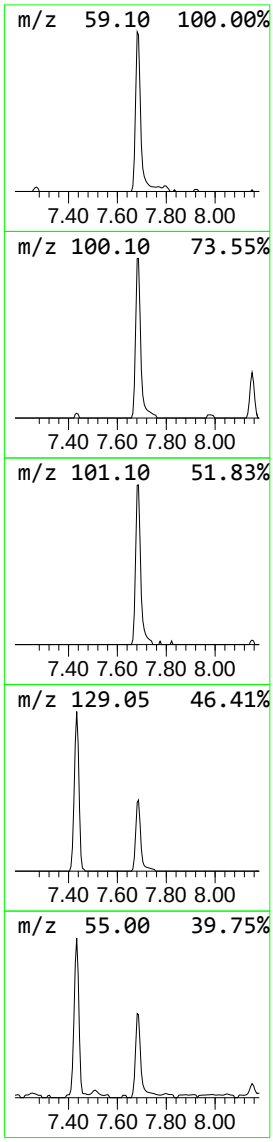
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Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.681	2.52 ng	109333	Naphthalene-d8	8.151

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	47
3	Piperidine, 1-hydroxy-	101	C5H11NO	004801-58-5	35
4	Butanoic acid, 4-(2-methoxy-1-me...	204	C9H16O5	054966-46-0	25
5	1,4-Di-O-acetyl-2,5-di-O-methyl-...	262	C12H22O6	1000101-82-1	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

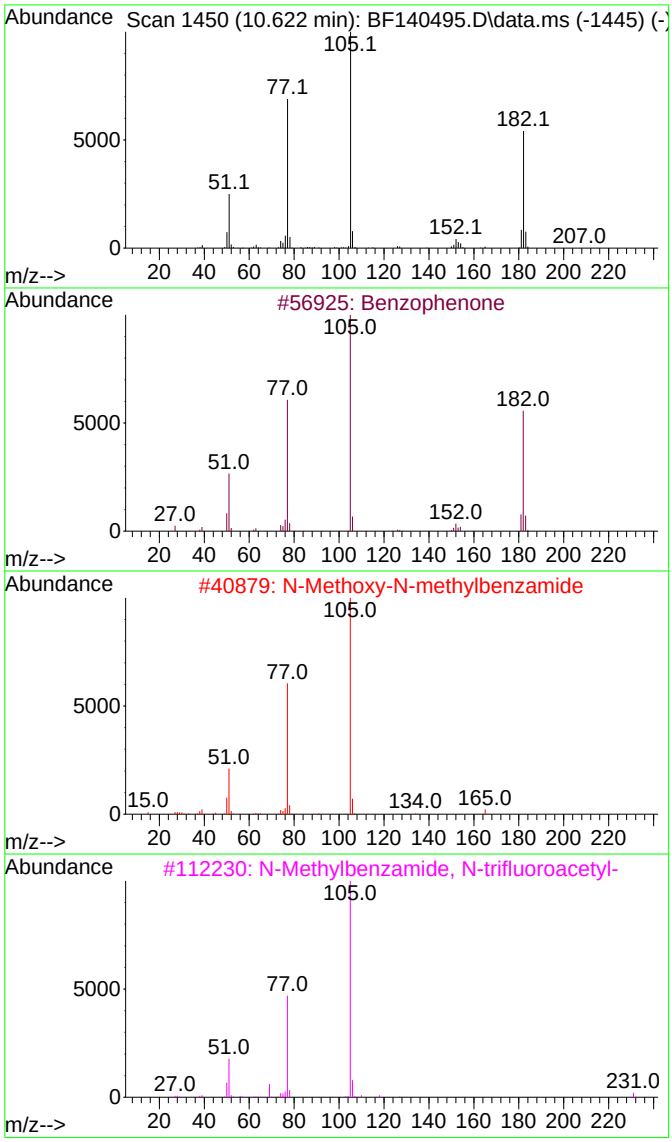
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

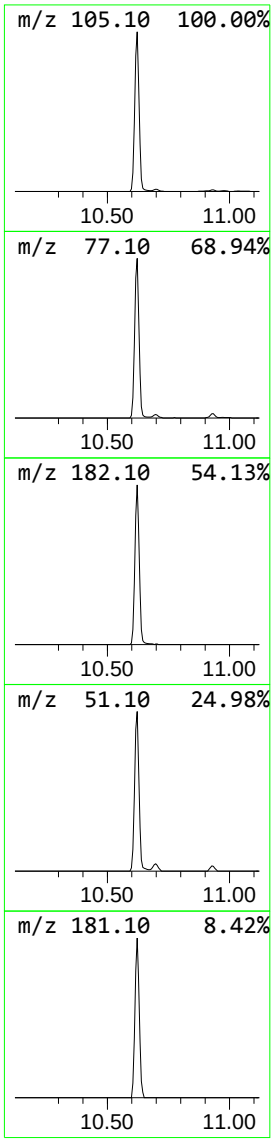
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Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.622	6.42 ng	316813	Acenaphthene-d10	9.910

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
3	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
4	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

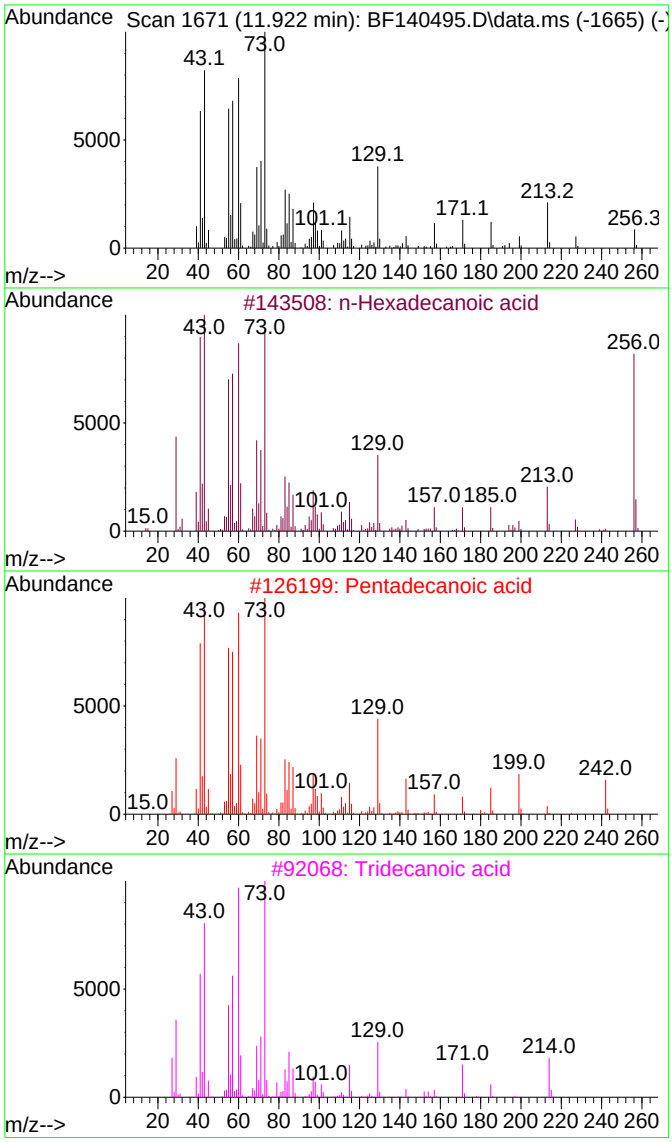
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

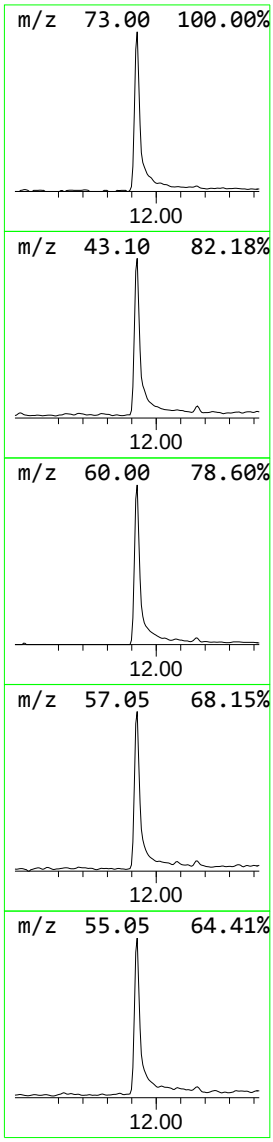
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	8.66 ng	452219	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.158	46.1	ng	1514960	1	6.875	657131	20.0
Pentanedioic ac...	7.681	2.5	ng	109333	2	8.151	866527	20.0
Benzophenone	10.622	6.4	ng	316813	3	9.910	987254	20.0
n-Hexadecanoic ...	11.922	8.7	ng	452219	4	11.398	1044540	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Time: Nov 26 00:08:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

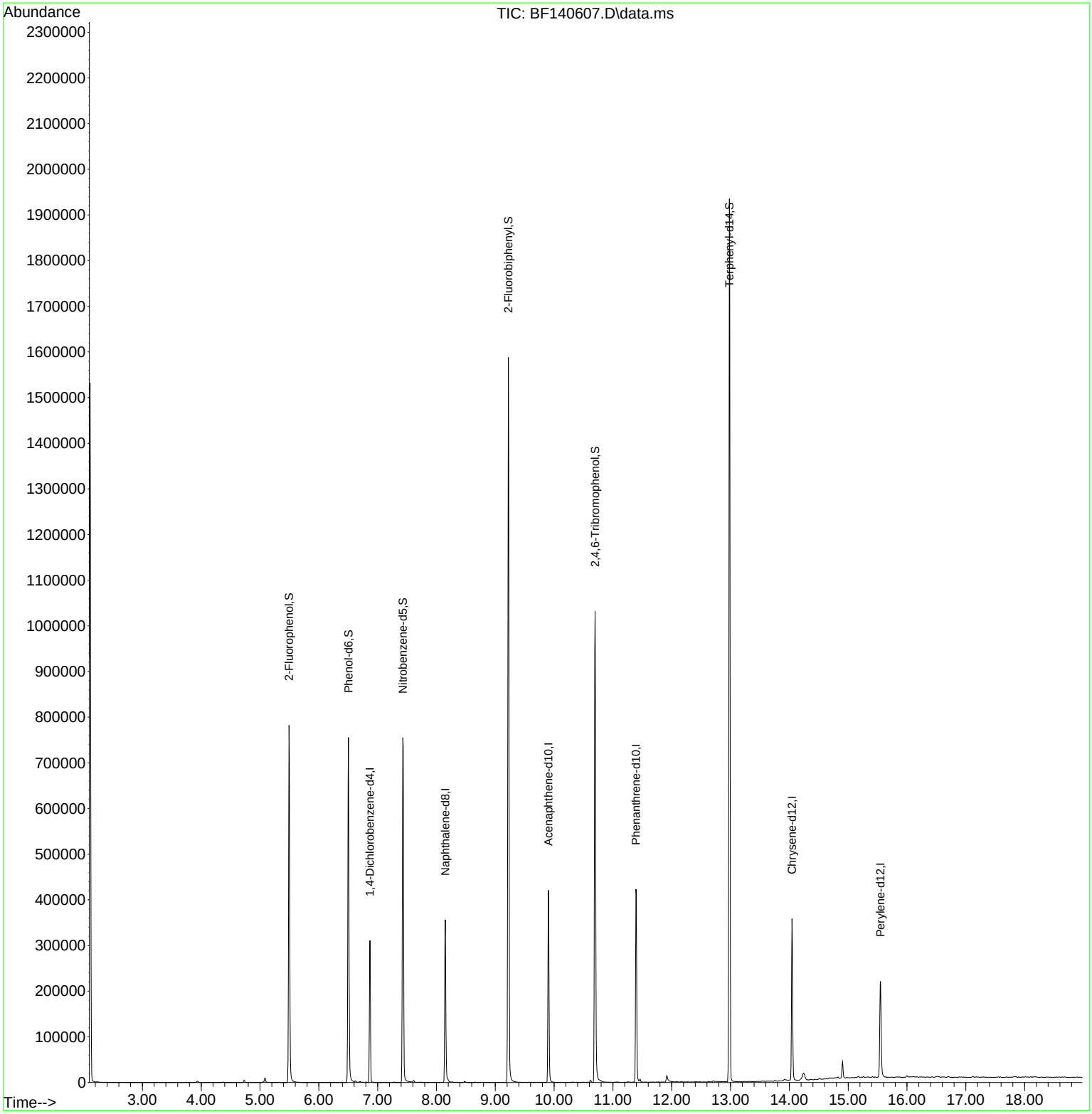
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	64480	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	239780	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	131138	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	245059	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	178129	20.000	ng	0.00
86) Perylene-d12	15.551	264	139529	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	298834	79.075	ng	0.00
7) Phenol-d6	6.504	99	355856	71.227	ng	-0.01
23) Nitrobenzene-d5	7.428	82	362946	77.424	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	186214	132.770	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	706233	80.240	ng	-0.01
79) Terphenyl-d14	12.980	244	962141	84.106	ng	-0.01
Target Compounds						Qvalue

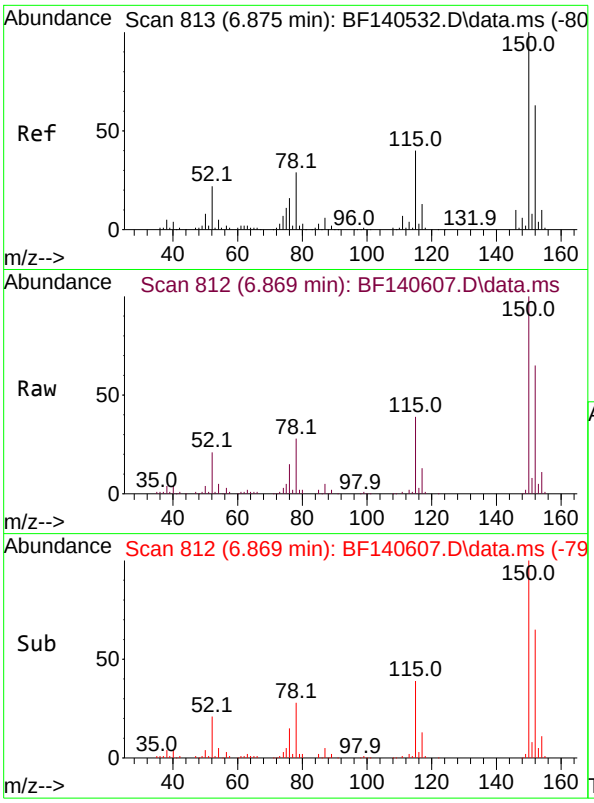
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Time: Nov 26 00:08:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



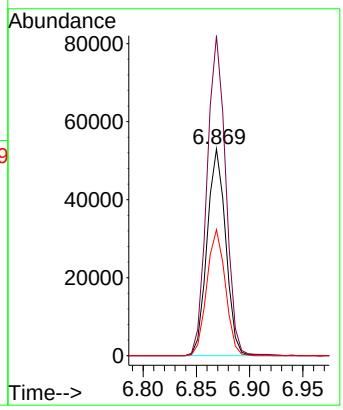


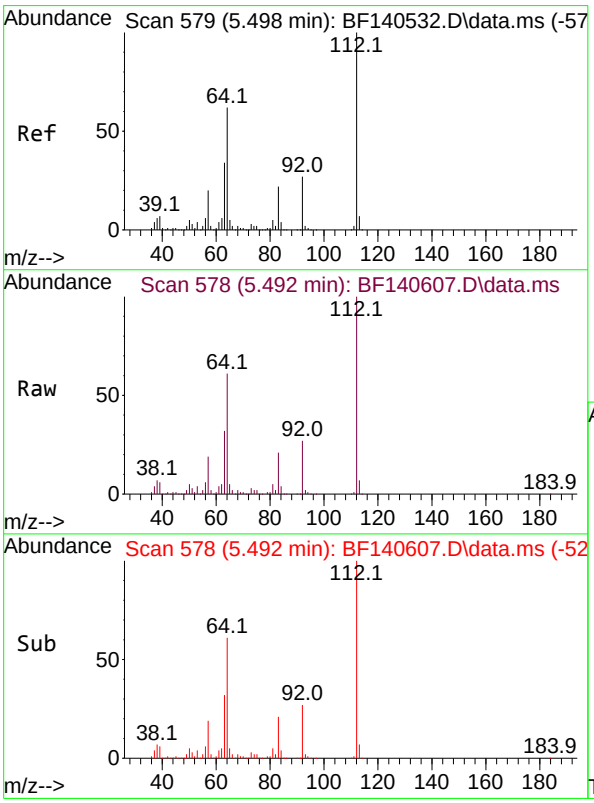
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:152 Resp: 64480

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.5	192.7
115	61.0	50.2	75.4

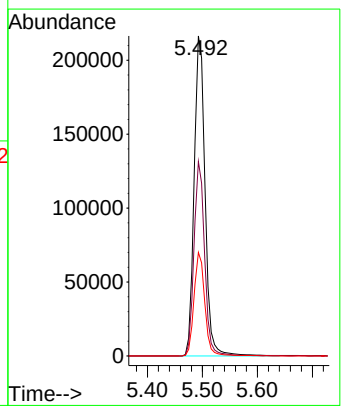


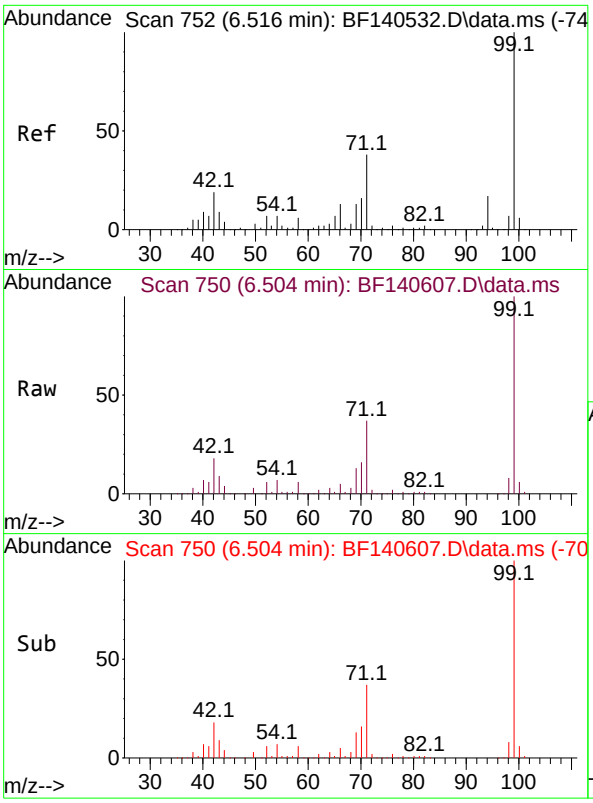


#5
2-Fluorophenol
Concen: 79.075 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:112 Resp: 298834

Ion	Ratio	Lower	Upper
112	100		
64	60.8	49.2	73.8
63	32.4	27.0	40.4



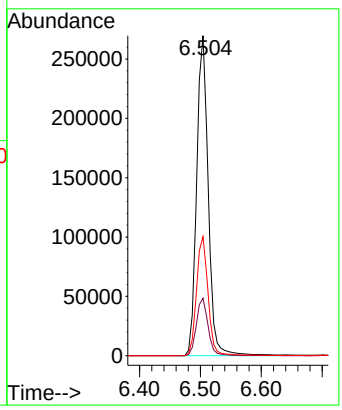


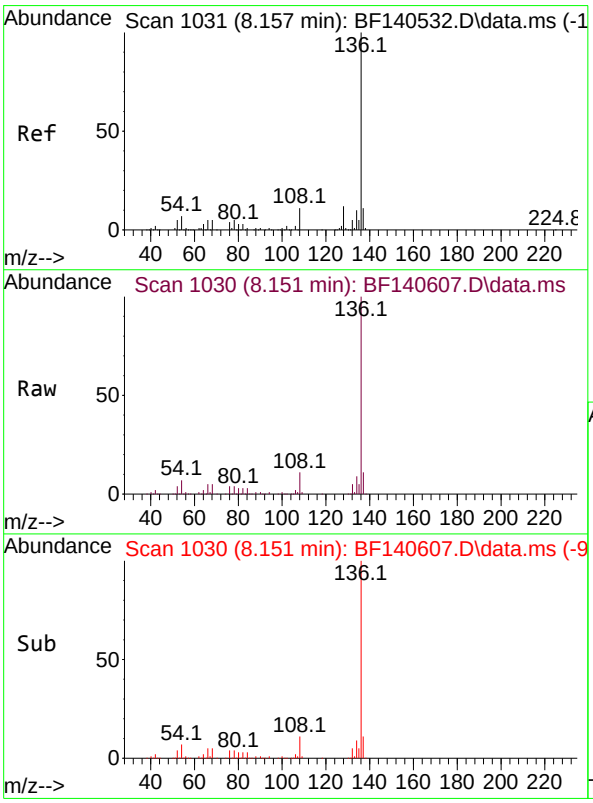
#7
Phenol-d6
Concen: 71.227 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion: 99 Resp: 355856

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.4	23.0
71	37.2	30.6	46.0

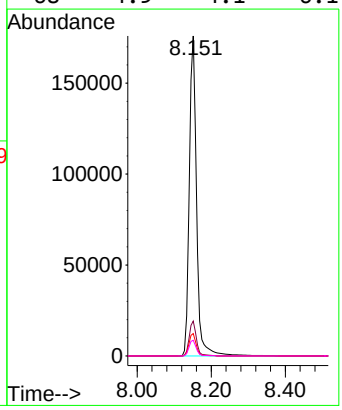


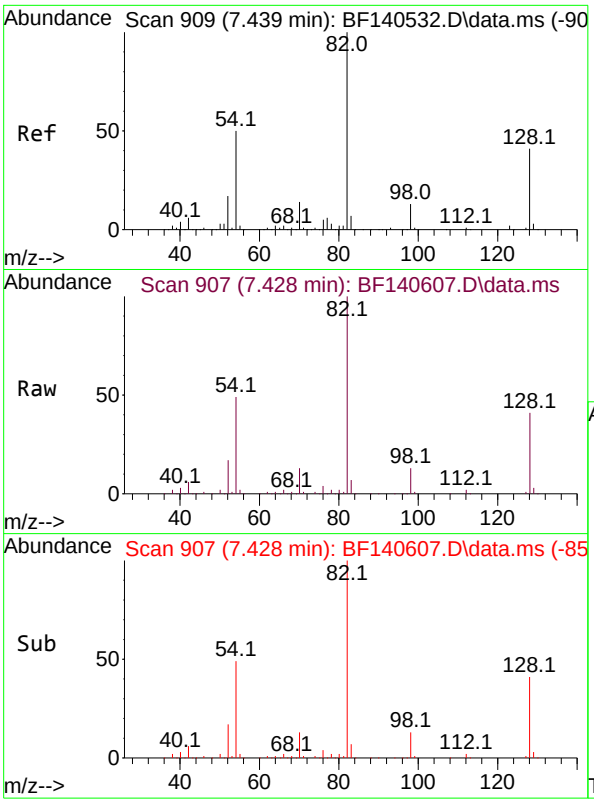


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:136 Resp: 239780

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.0	5.8	8.8
68	4.9	4.1	6.1



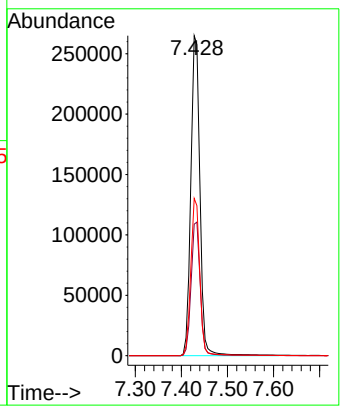


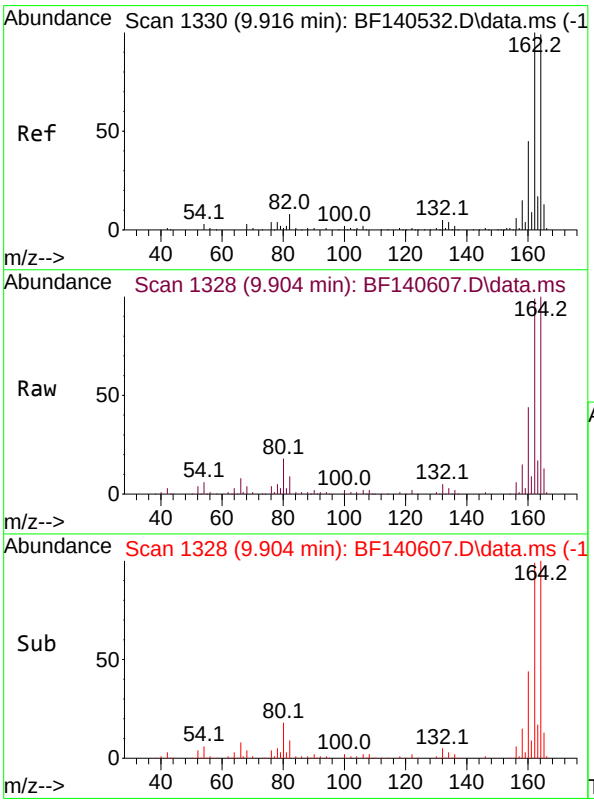
#23
Nitrobenzene-d5
Concen: 77.424 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion: 82 Resp: 362946

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.0	49.4
54	49.1	39.5	59.3

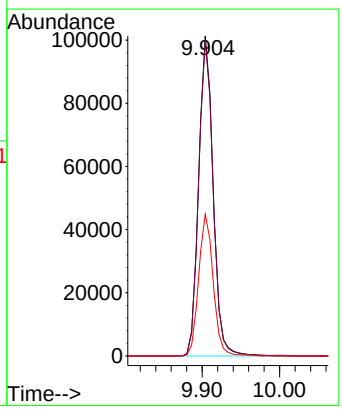


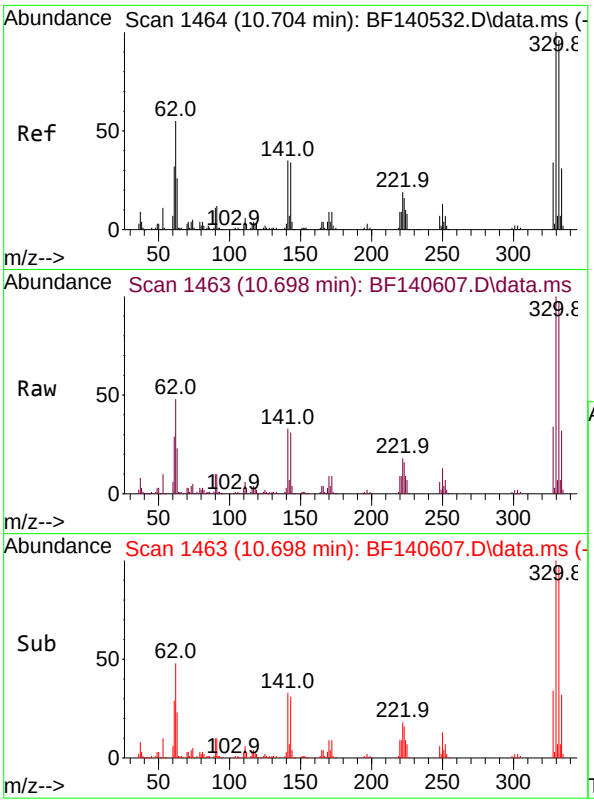


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:164 Resp: 131138

Ion	Ratio	Lower	Upper
164	100		
162	98.5	80.6	120.8
160	44.3	36.2	54.4



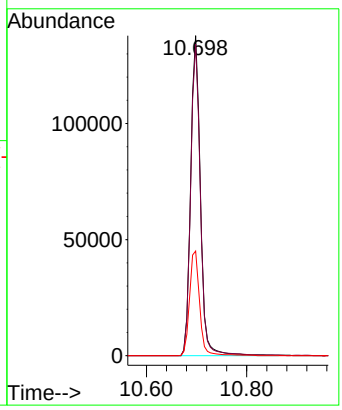


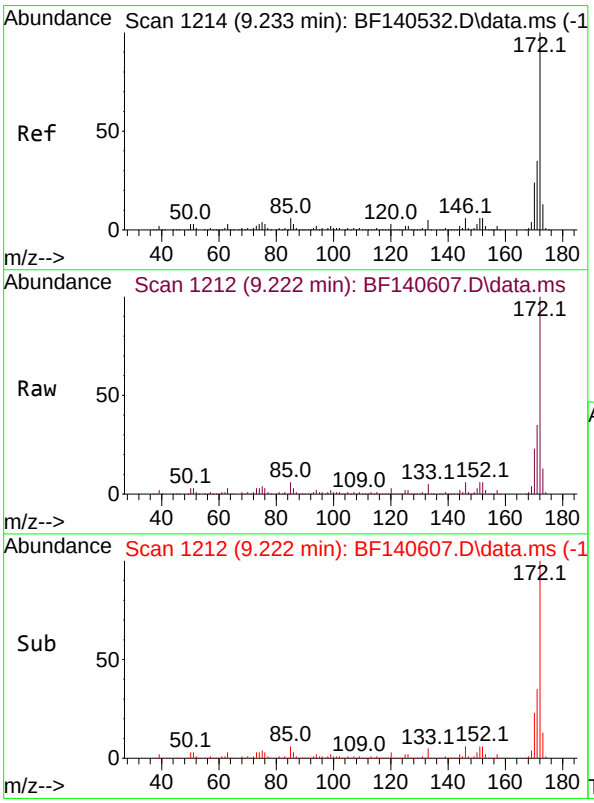
#42
2,4,6-Tribromophenol
Concen: 132.770 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:330 Resp: 186214

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.9	115.3
141	34.0	26.7	40.1

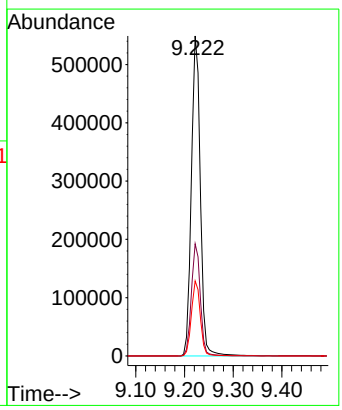


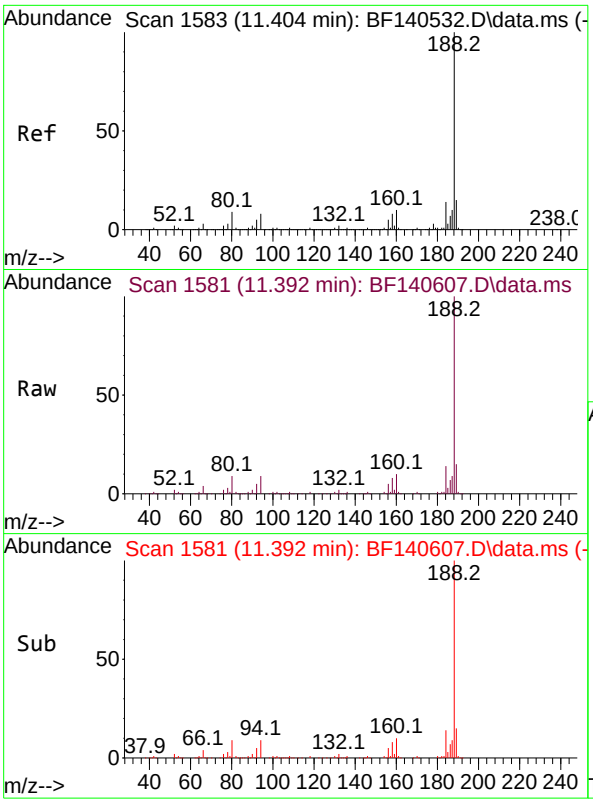


#45
2-Fluorobiphenyl
Concen: 80.240 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:172 Resp: 706233

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.4	42.6
170	23.4	19.0	28.6



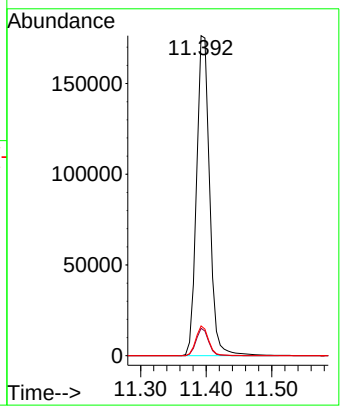


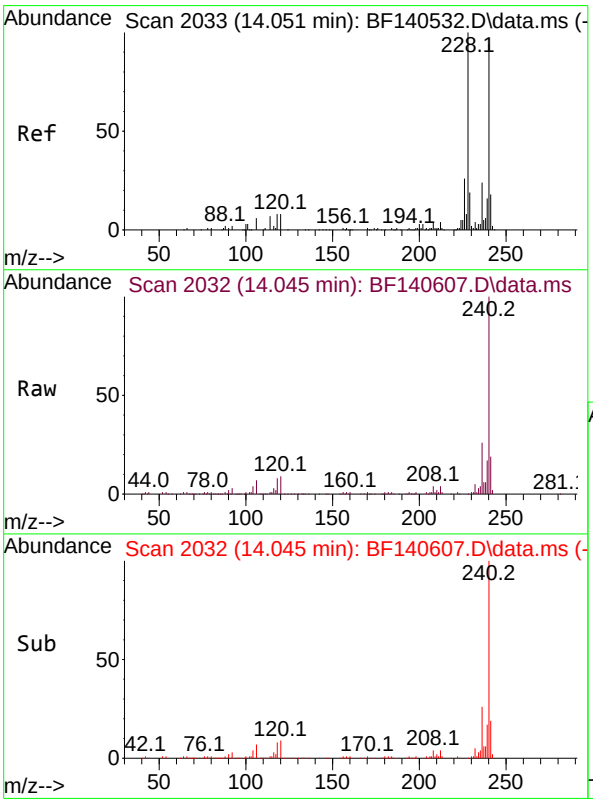
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:188 Resp: 245059

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.4	9.6
80	9.3	6.9	10.3

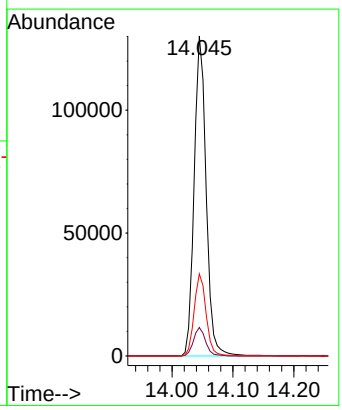


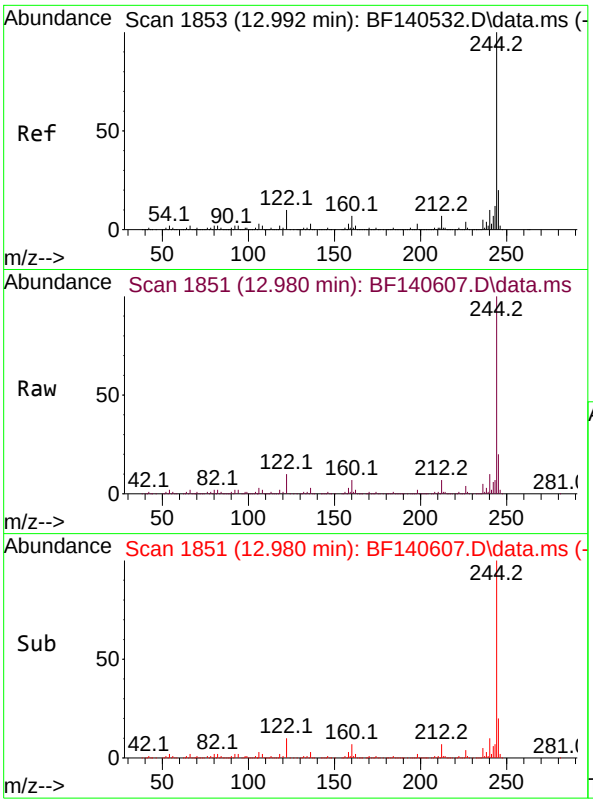


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:240 Resp: 178129

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.3	10.9
236	25.7	20.6	31.0



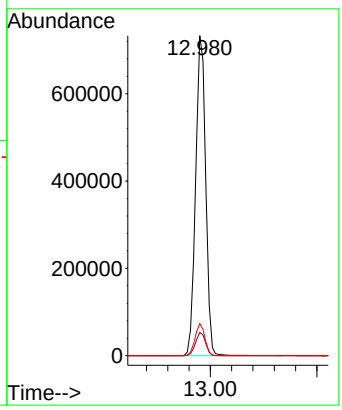


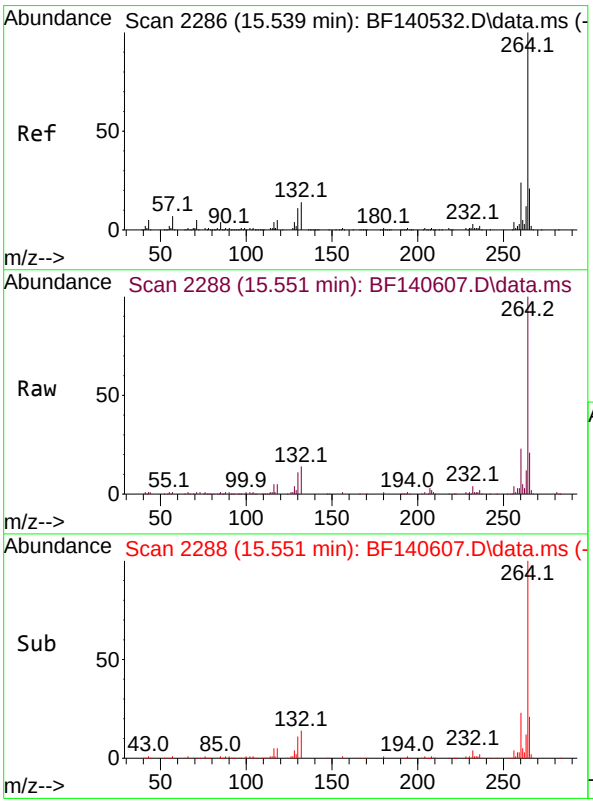
#79
Terphenyl-d14
Concen: 84.106 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:244 Resp: 962141

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.0	8.0	12.0

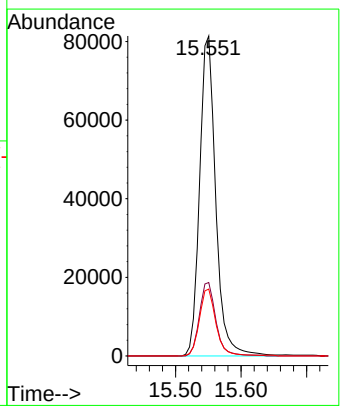




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:264 Resp: 139529

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.6
265	20.9	16.6	25.0



Sample Results: **BF140607.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140607.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.492	573	578	595	rBV	782418	1060882	42.29%	8.881%
2	6.504	744	750	766	rBV	755356	998343	39.80%	8.357%
3	6.869	807	812	823	rBV	311064	375630	14.98%	3.144%
4	7.428	902	907	934	rBV	754911	1027172	40.95%	8.599%
5	8.151	1025	1030	1048	rBV	356101	474414	18.91%	3.971%
6	9.222	1207	1212	1243	rBV	1588272	2020226	80.54%	16.911%
7	9.904	1323	1328	1340	rBV	420737	542458	21.63%	4.541%
8	10.698	1457	1463	1478	rBV	1031783	1413271	56.34%	11.831%
9	11.392	1576	1581	1590	rBV	422554	572370	22.82%	4.791%
10	11.916	1665	1670	1683	rBV3	13986	29119	1.16%	0.244%
11	12.980	1845	1851	1862	rBV	1933619	2508357	100.00%	20.998%
12	14.045	2027	2032	2044	rVB	353712	471472	18.80%	3.947%
13	14.239	2054	2065	2076	rBV9	14781	47562	1.90%	0.398%
14	14.904	2173	2178	2186	rVB	35253	48801	1.95%	0.409%
15	15.551	2281	2288	2303	rVB	209409	355860	14.19%	2.979%

Sum of corrected areas: 11945937

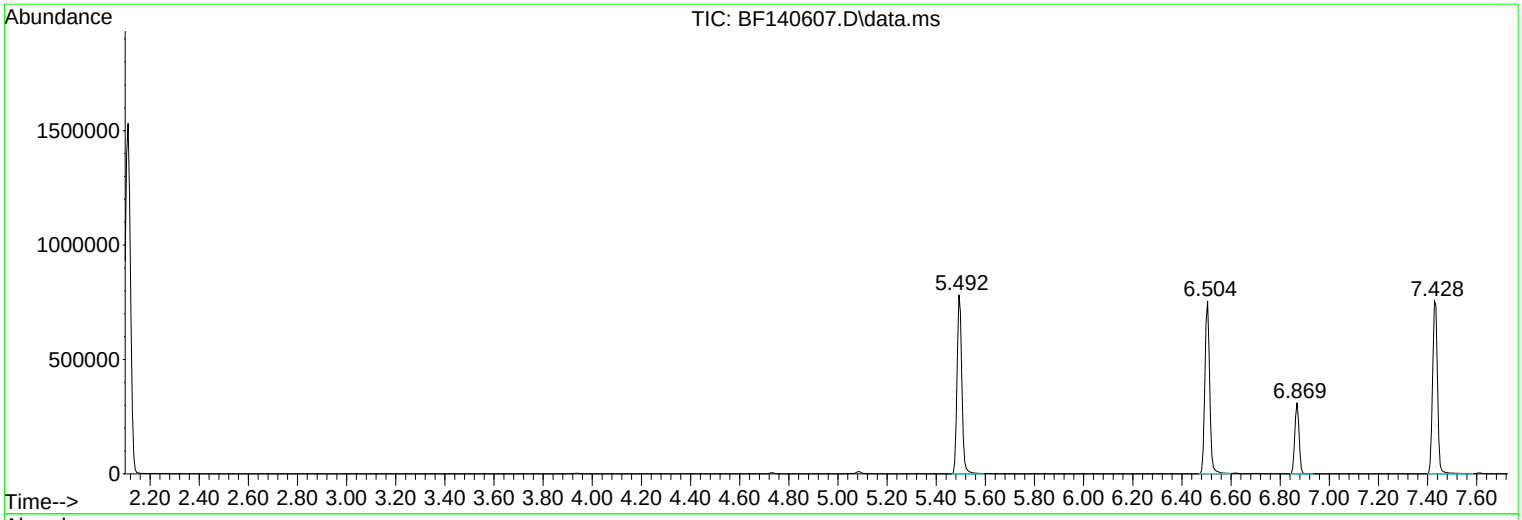
Sample Results: **BF140607.D**

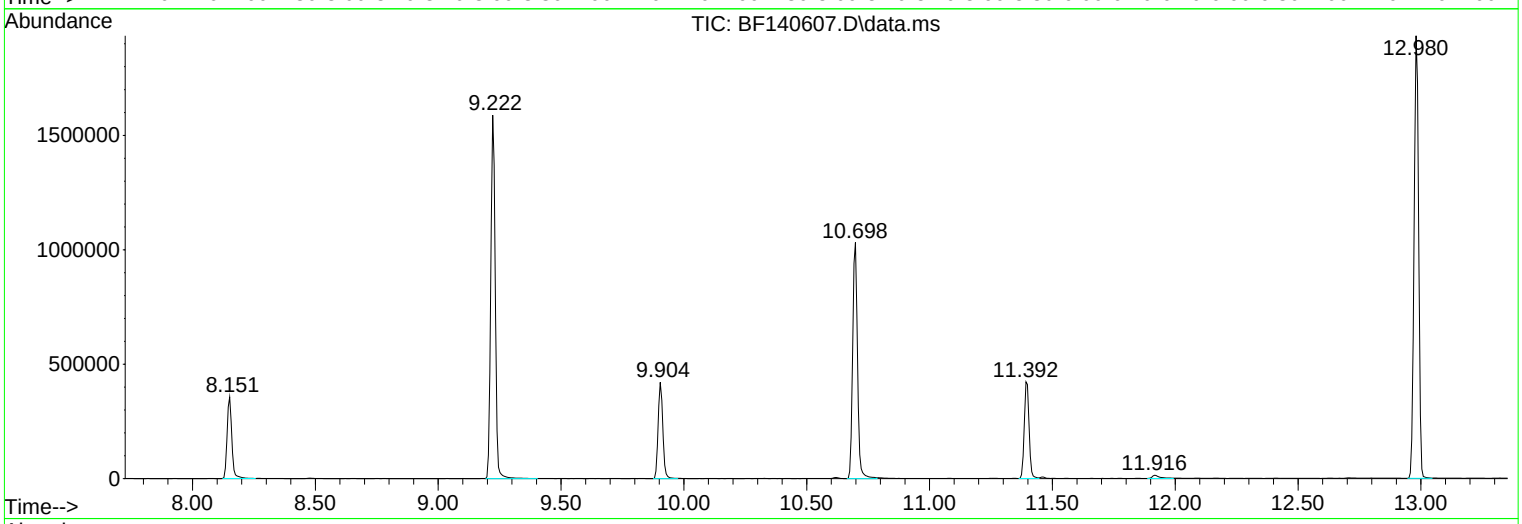
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

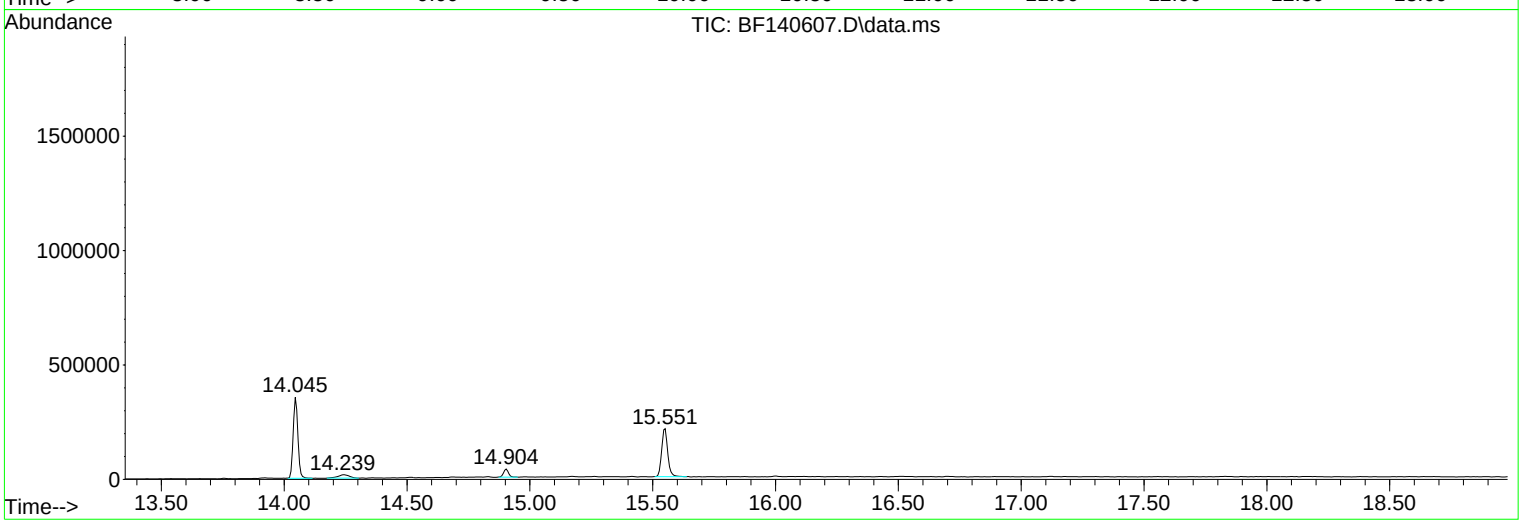
Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

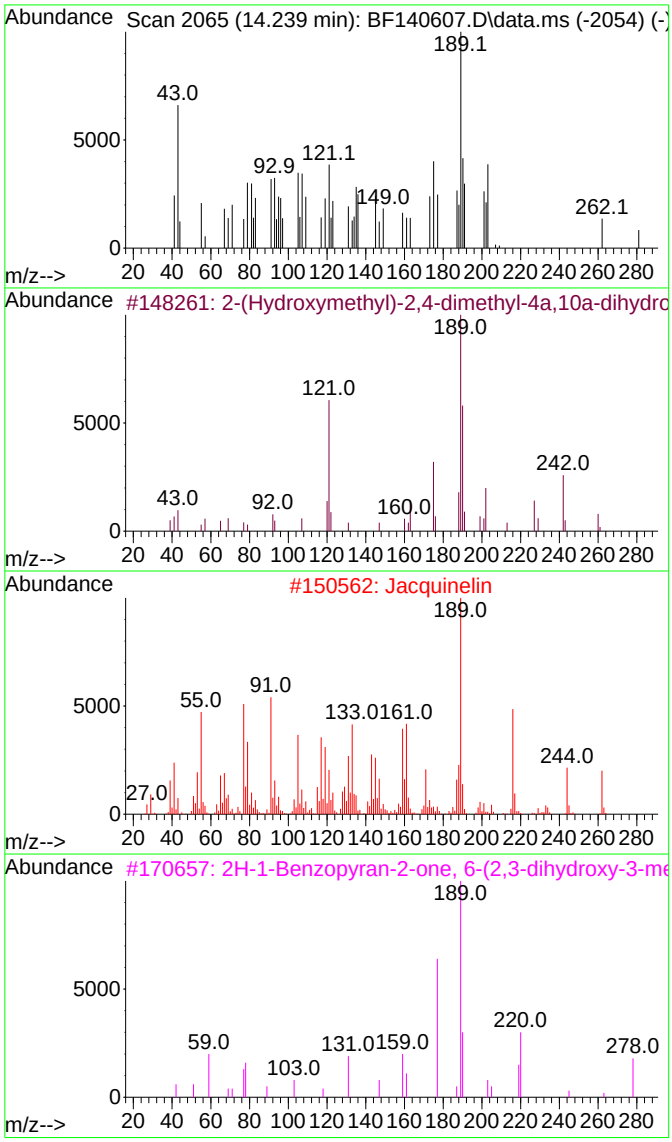
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

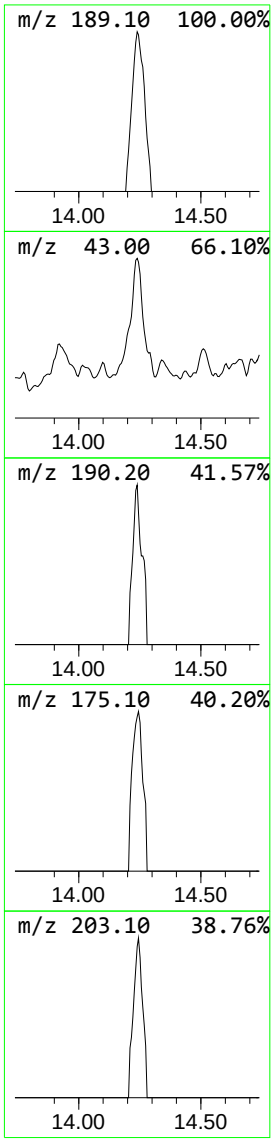
****

Peak Number 1 unknown14.239 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.239	2.02 ng	47562	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(Hydroxymethyl)-2,4-dimethyl-4...	260	C15H16O4	1005254-37-4	37
2	Jacquinelin	262	C15H18O4	007726-34-3	27
3	2H-1-Benzopyran-2-one, 6-(2,3-di...	278	C15H18O5	036149-96-9	16
4	.alpha.-Cyano-4-hydroxycinnamic ...	189	C10H7NO3	028166-41-8	14
5	2-Phenyl-1,3-thiazole-5-carbalde...	189	C10H7NOS	001011-40-1	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

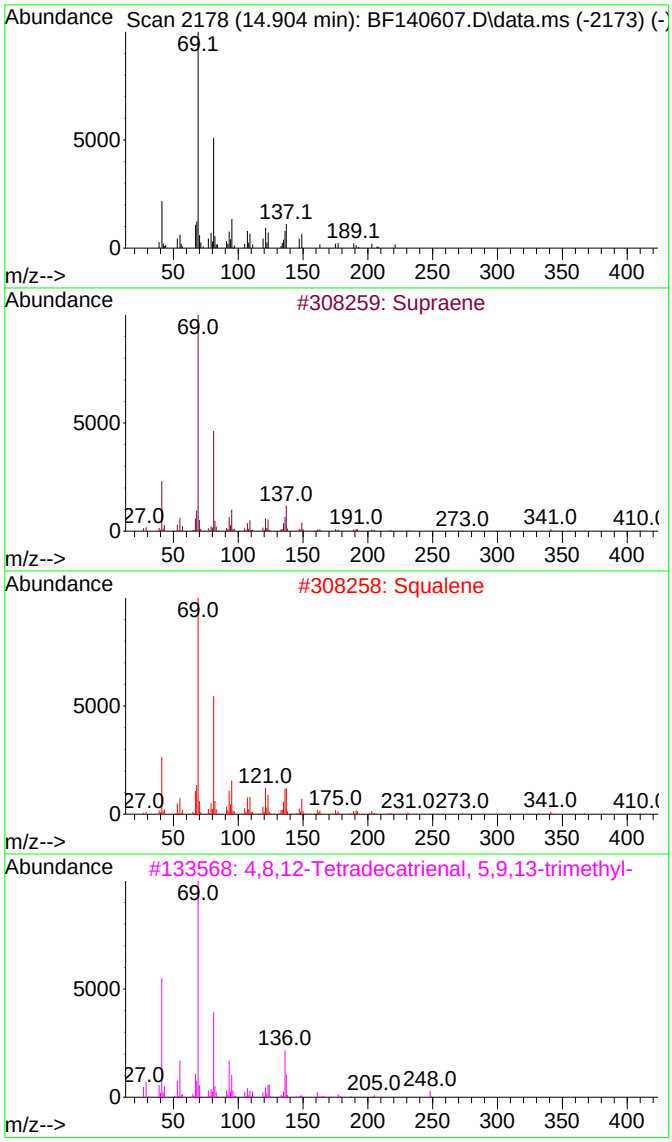
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

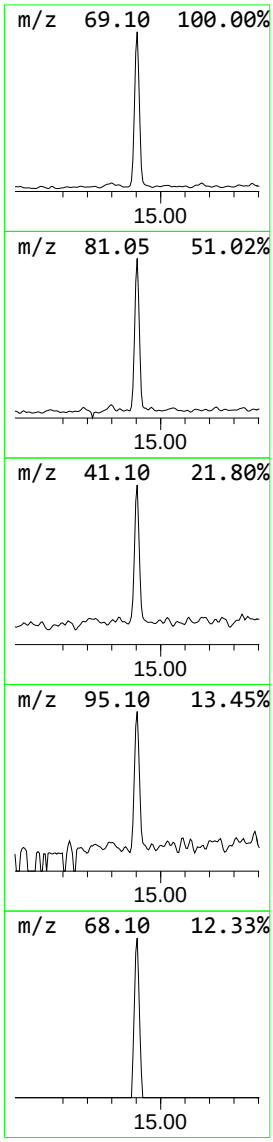
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Peak Number 2 Supraene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.904	2.74 ng	48801	Perylene-d12	15.551

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	87
3	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	86
4	trans-Farnesol	222	C15H26O	000106-28-5	72
5	(2E,6E)-3,7,11-Trimethyldodeca-2...	376	C25H44O2	078368-57-7	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
unknown14.239	14.239	2.0	ng	47562	5	14.045	471472	20.0
Supraene	14.904	2.7	ng	48801	6	15.551	355860	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Time: Nov 20 17:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

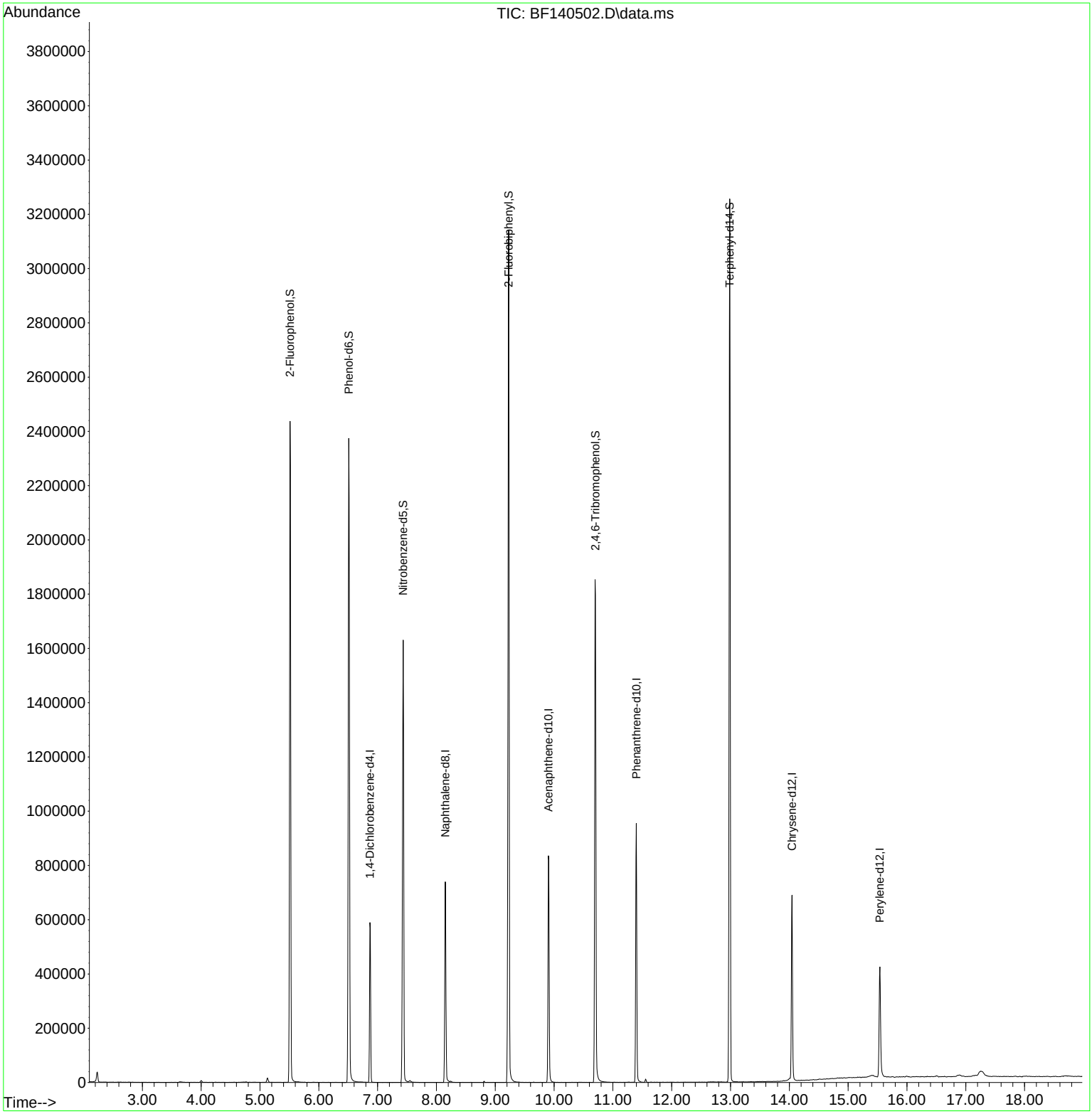
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	127581	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	485914	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	273616	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	524410	20.000	ng	0.00
76) Chrysene-d12	14.045	240	336229	20.000	ng	0.00
86) Perylene-d12	15.539	264	269895	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	929313	124.368	ng	0.02
7) Phenol-d6	6.510	99	1217108	120.223	ng	0.00
23) Nitrobenzene-d5	7.434	82	803231	86.127	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	349607	128.490	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1476829	86.767	ng	0.00
79) Terphenyl-d14	12.986	244	1657784	85.584	ng	0.00
Target Compounds						Qvalue

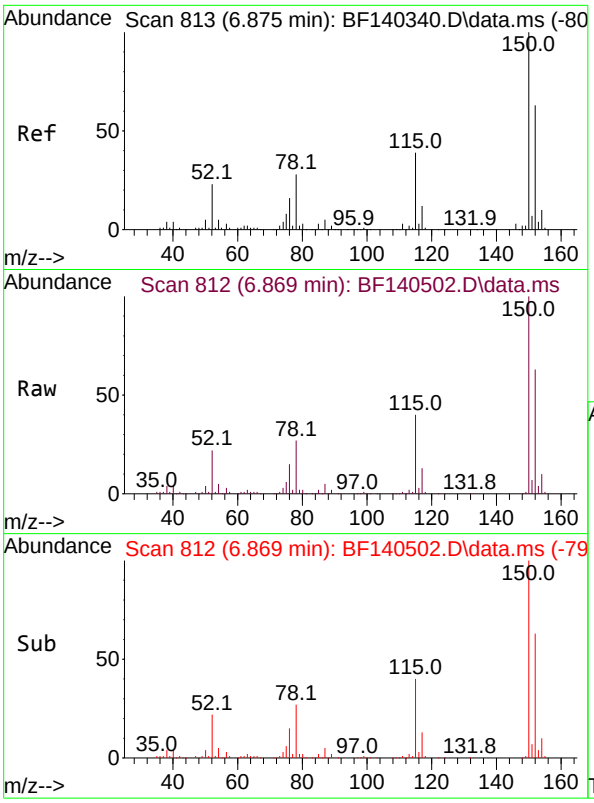
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Time: Nov 20 17:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



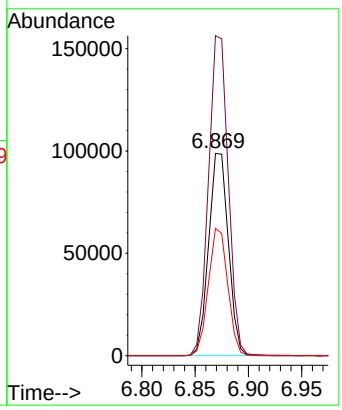


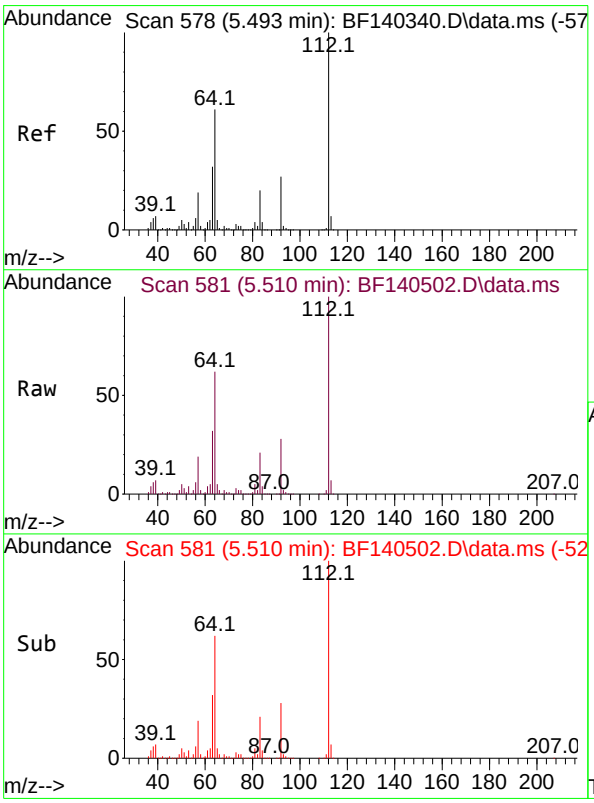
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:152 Resp: 127581

Ion	Ratio	Lower	Upper
152	100		
150	158.2	127.4	191.0
115	63.0	47.4	71.2

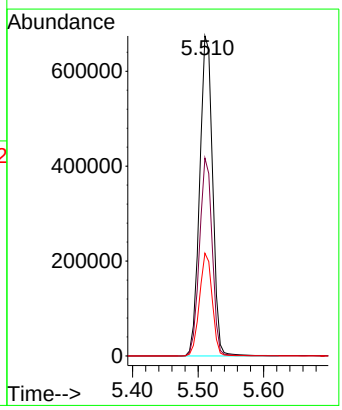


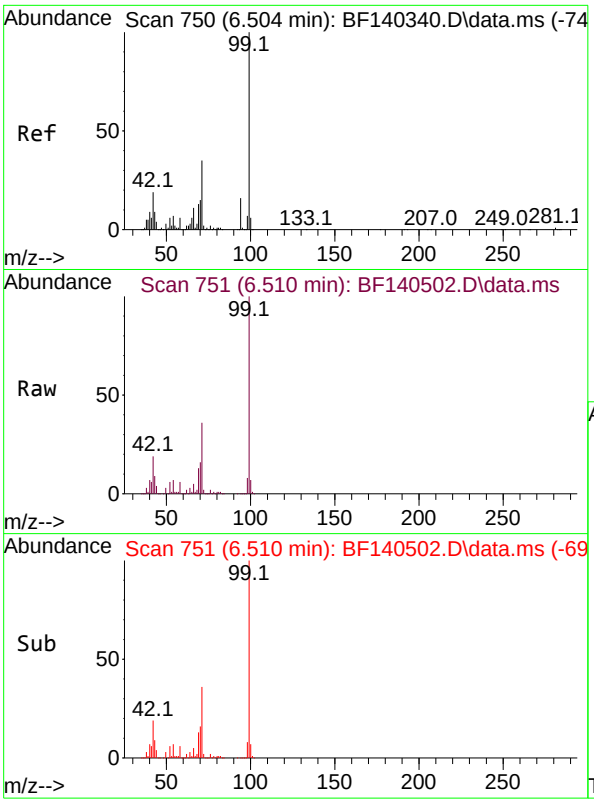


#5
2-Fluorophenol
Concen: 124.368 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:112 Resp: 929313

Ion	Ratio	Lower	Upper
112	100		
64	61.9	49.2	73.8
63	32.1	25.6	38.4



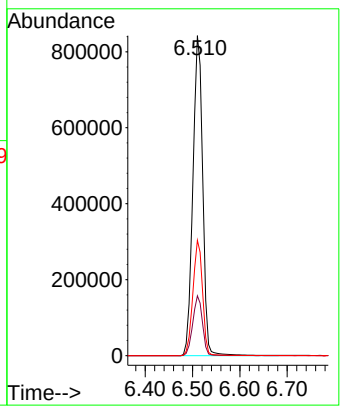


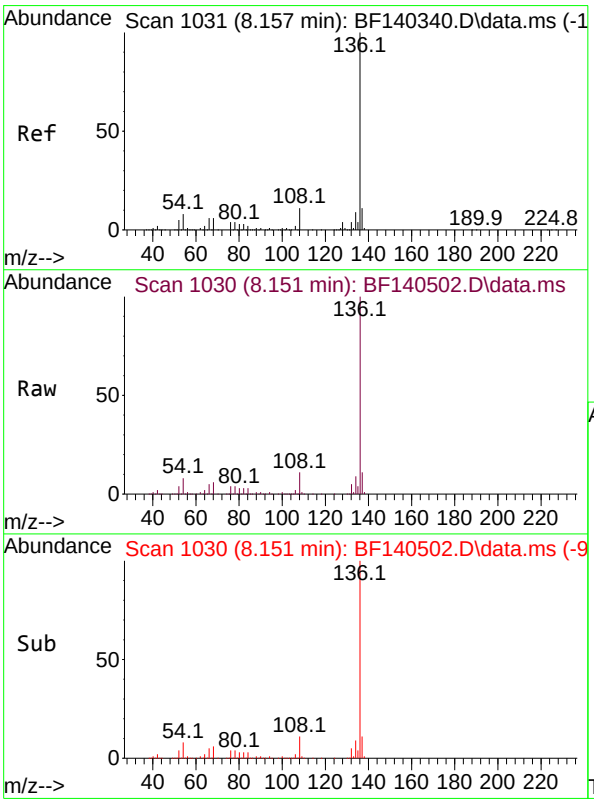
#7
Phenol-d6
Concen: 120.223 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion: 99 Resp: 1217108

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.1	22.7
71	36.1	27.9	41.9

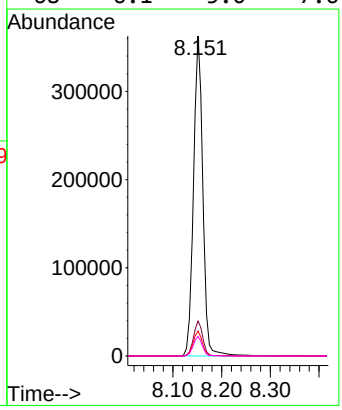


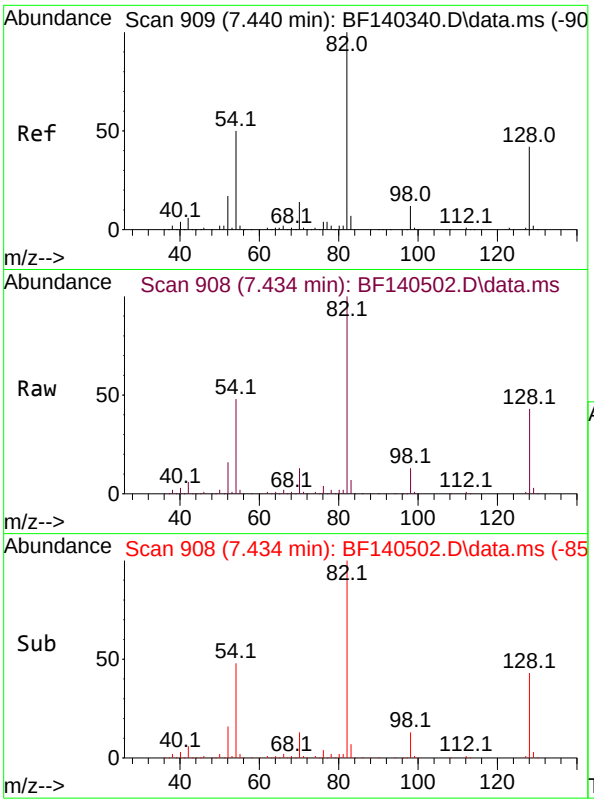


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:136 Resp: 485914

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.7	6.5	9.7
68	6.1	5.0	7.6



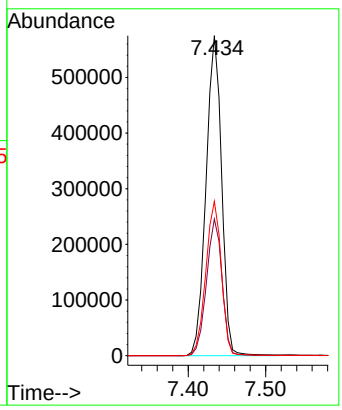


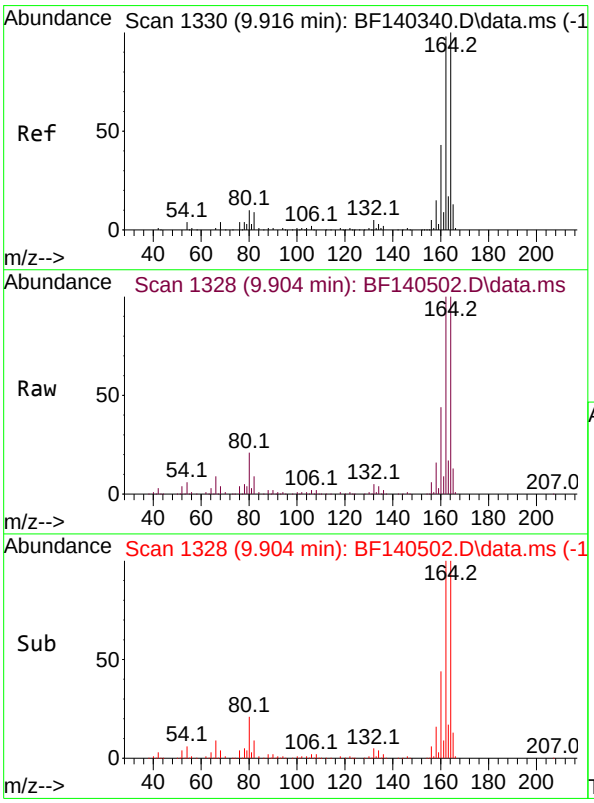
#23
Nitrobenzene-d5
Concen: 86.127 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion: 82 Resp: 803231

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.3	49.9
54	48.2	39.8	59.8

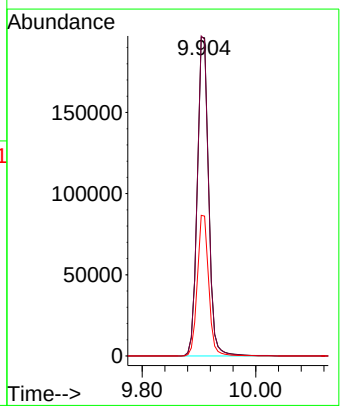


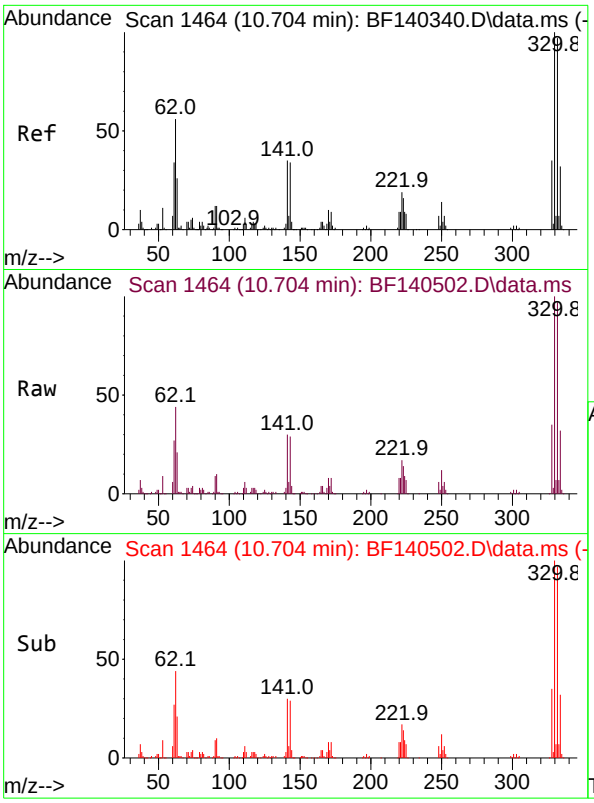


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:164 Resp: 273616

Ion	Ratio	Lower	Upper
164	100		
162	100.3	79.8	119.8
160	44.1	35.4	53.0



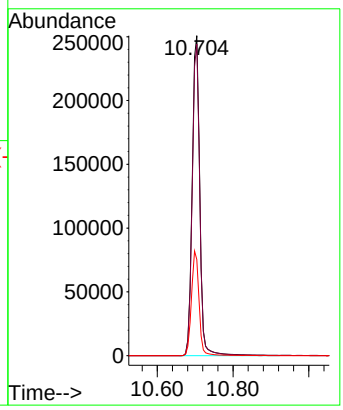


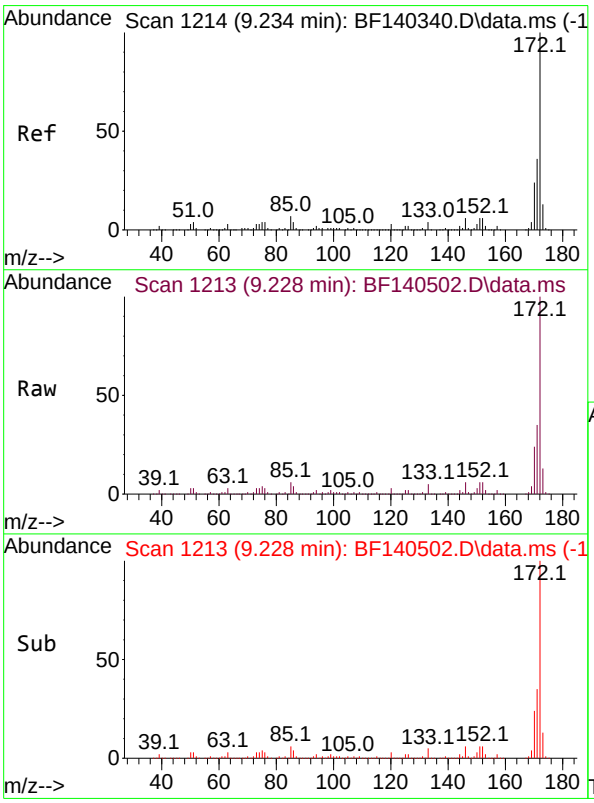
#42
2,4,6-Tribromophenol
Concen: 128.490 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:330 Resp: 349607

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	32.7	26.9	40.3

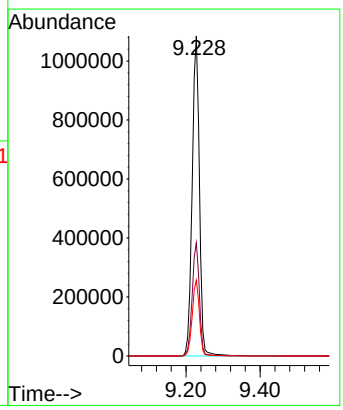


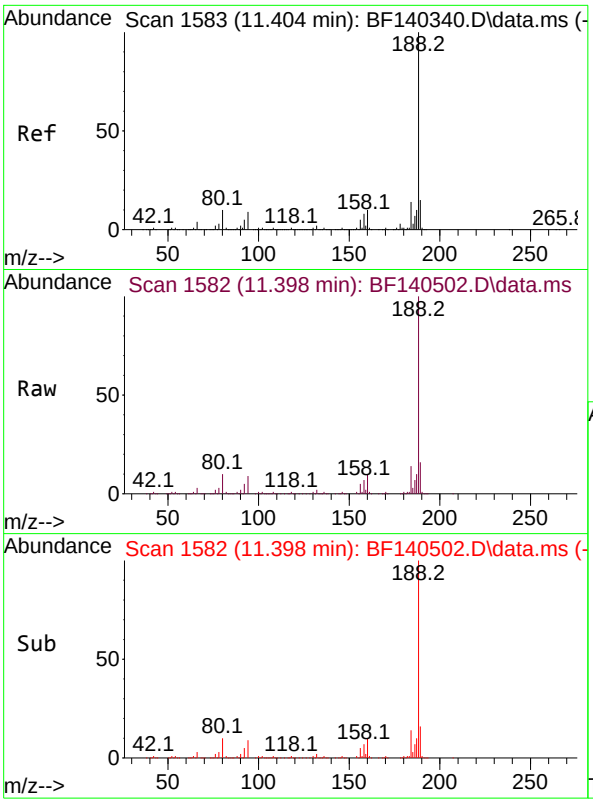


#45
2-Fluorobiphenyl
Concen: 86.767 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:172 Resp: 1476829

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.7	19.1	28.7



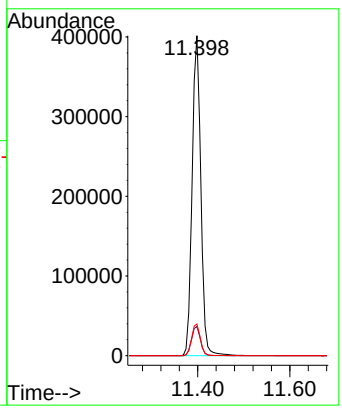


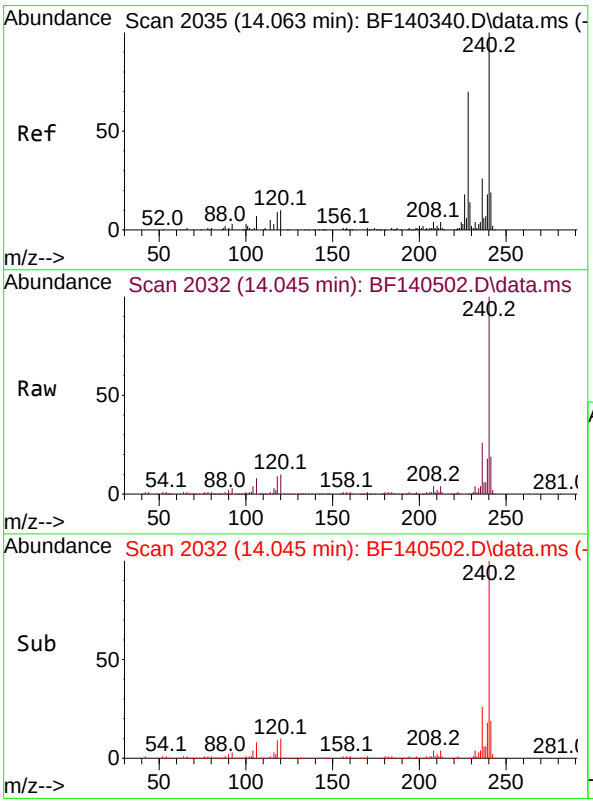
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:188 Resp: 524410

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.6	11.4
80	9.9	8.0	12.0

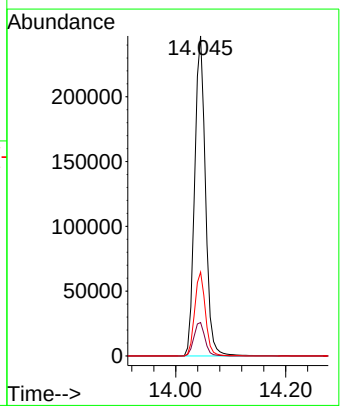


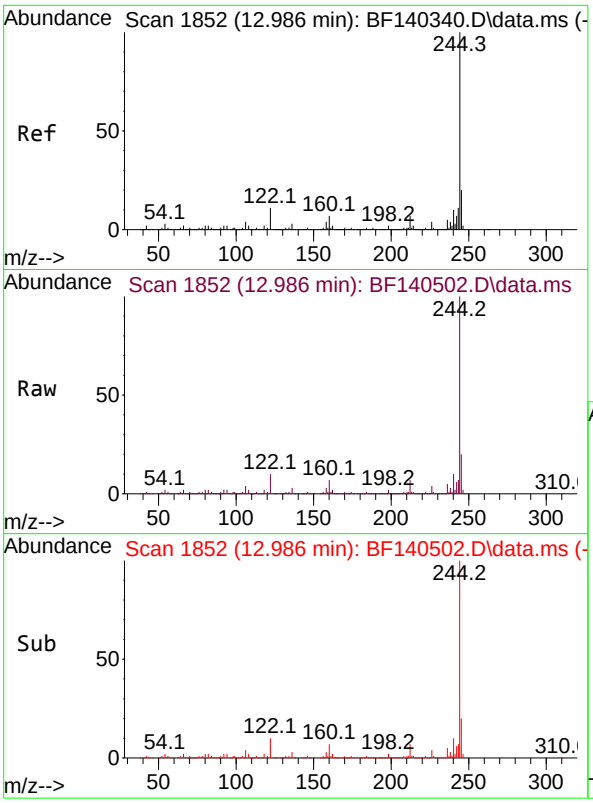


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:240 Resp: 336229

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.2	20.9	31.3



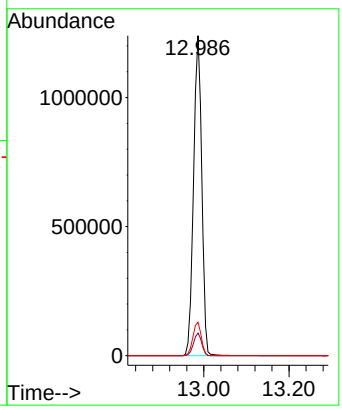


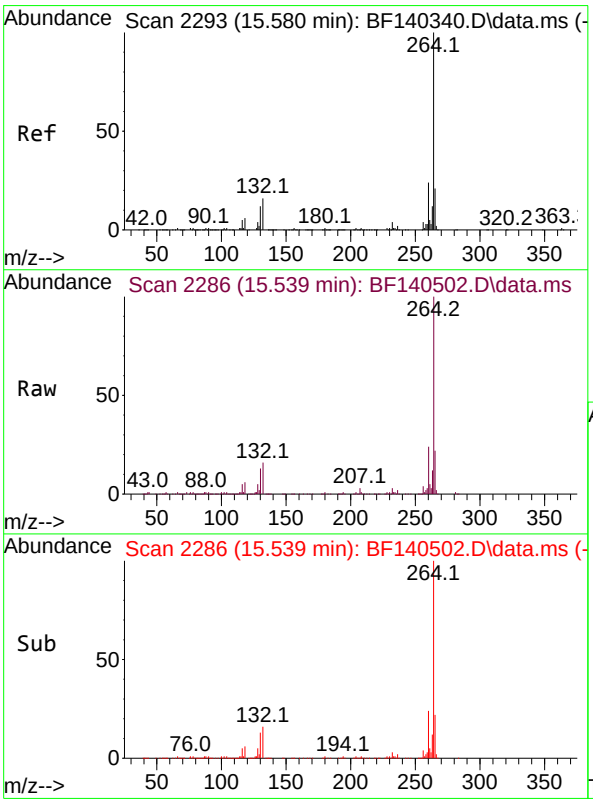
#79
Terphenyl-d14
Concen: 85.584 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:244 Resp: 1657784

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	10.4	8.8	13.2

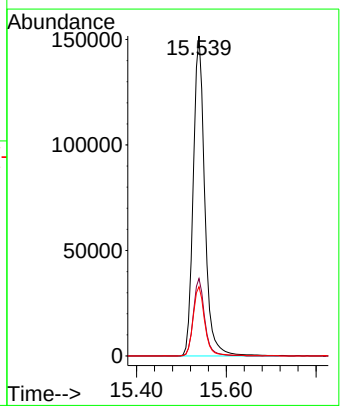




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.018 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:264 Resp: 269895

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.6	17.1	25.7



Sample Results: **BF140502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140502.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.234	13	24	33	rVB	36727	68976	1.59%	0.265%
2	5.510	575	581	601	rBV	2436895	3313261	76.37%	12.715%
3	6.510	745	751	772	rBV	2373825	3422684	78.89%	13.135%
4	6.869	807	812	818	rBV	588850	747517	17.23%	2.869%
5	7.434	901	908	913	rBV	1631004	2262765	52.16%	8.684%
6	8.151	1024	1030	1042	rBV	739729	978201	22.55%	3.754%
7	9.228	1206	1213	1239	rBV	3140239	4255047	98.08%	16.329%
8	9.904	1319	1328	1351	rVB	835802	1151952	26.55%	4.421%
9	10.698	1457	1463	1489	rBV	1853447	2633458	60.70%	10.106%
10	11.398	1576	1582	1598	rBV	954304	1240417	28.59%	4.760%
11	12.986	1846	1852	1857	rBV	3254922	4338530	100.00%	16.649%
12	14.045	2026	2032	2048	rVB	683287	933706	21.52%	3.583%
13	15.539	2279	2286	2299	rBV	405830	711575	16.40%	2.731%

Sum of corrected areas: 26058089

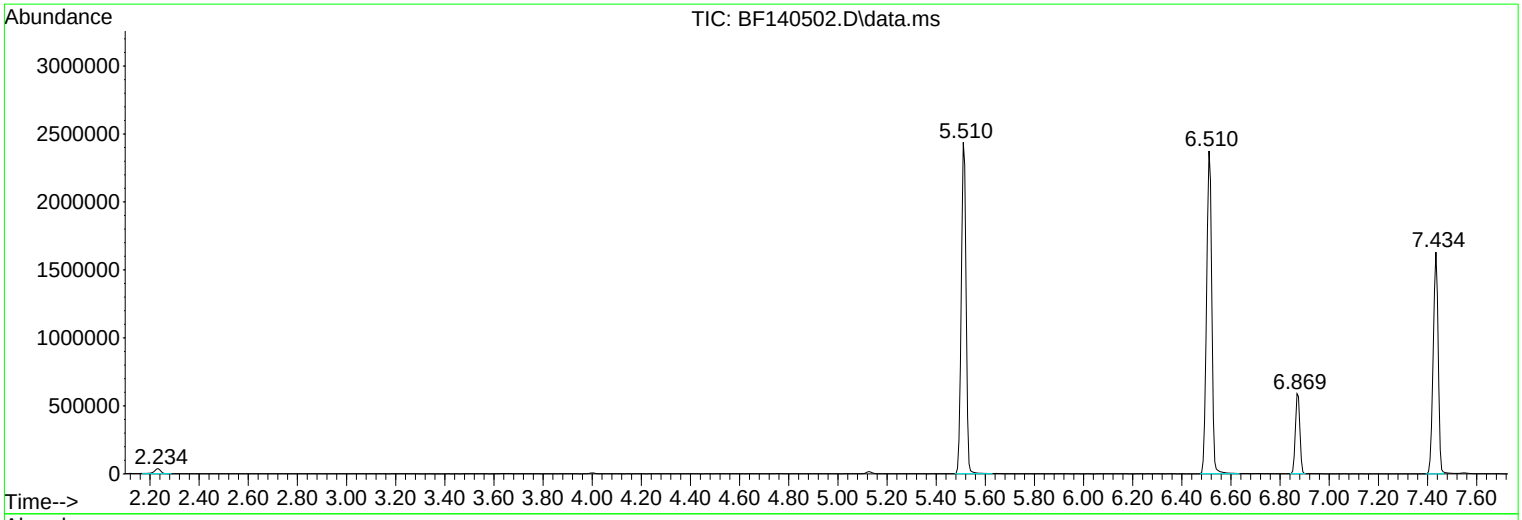
Sample Results: **BF140502.D**

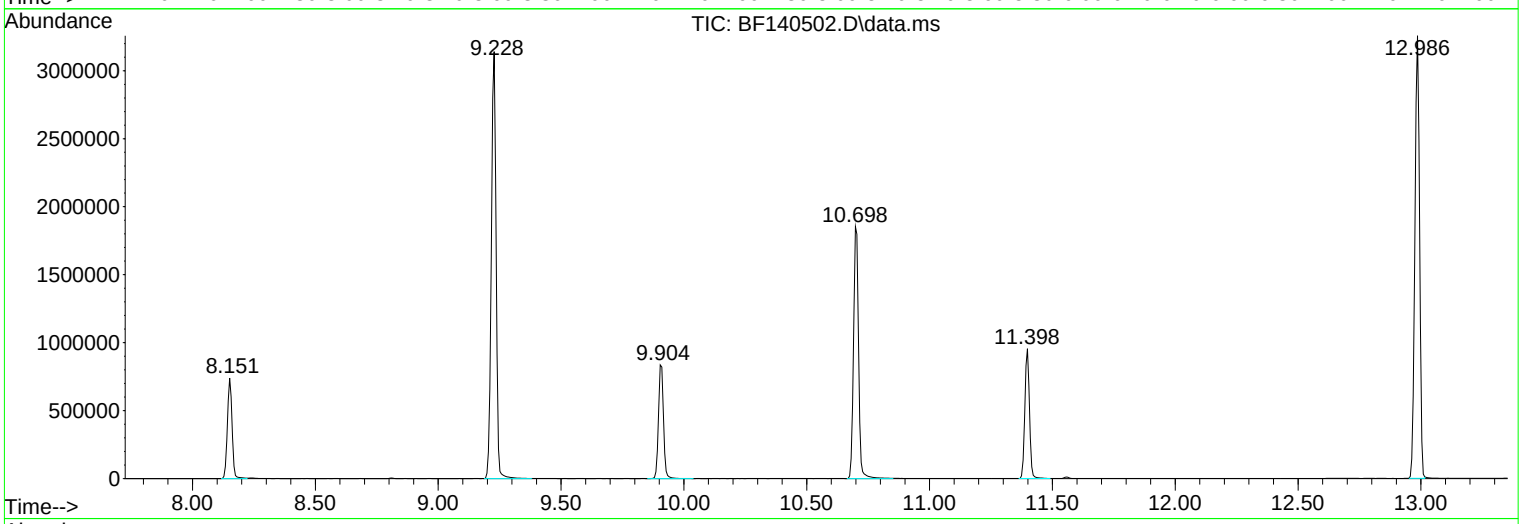
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

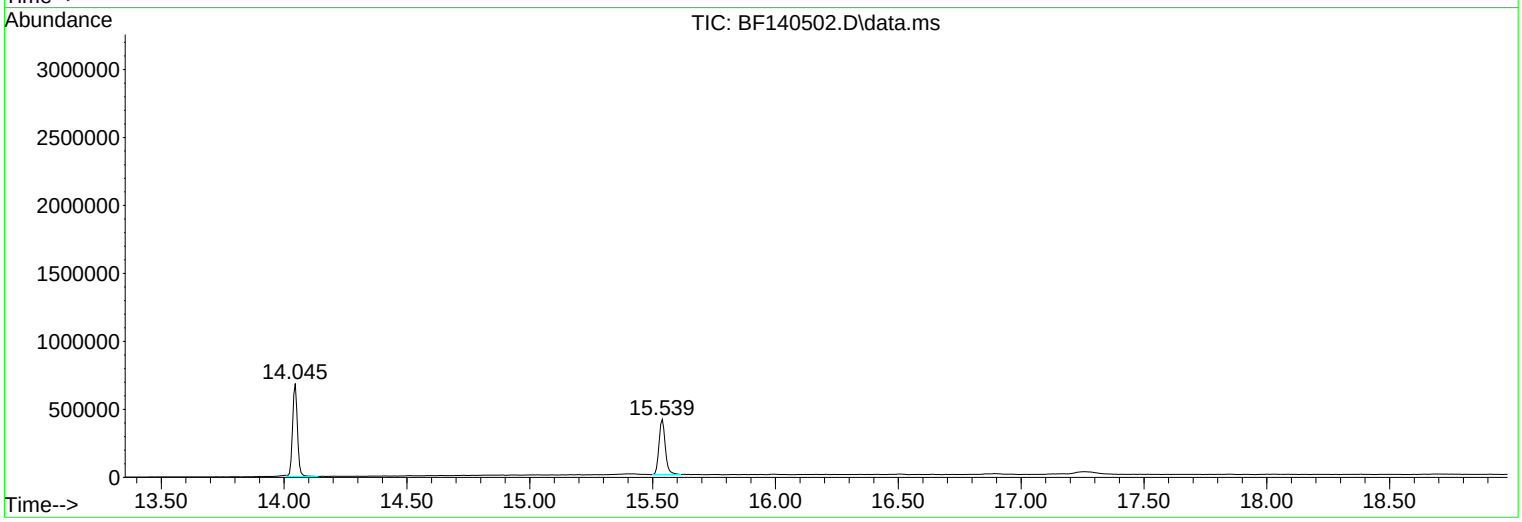
Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Time: Nov 25 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

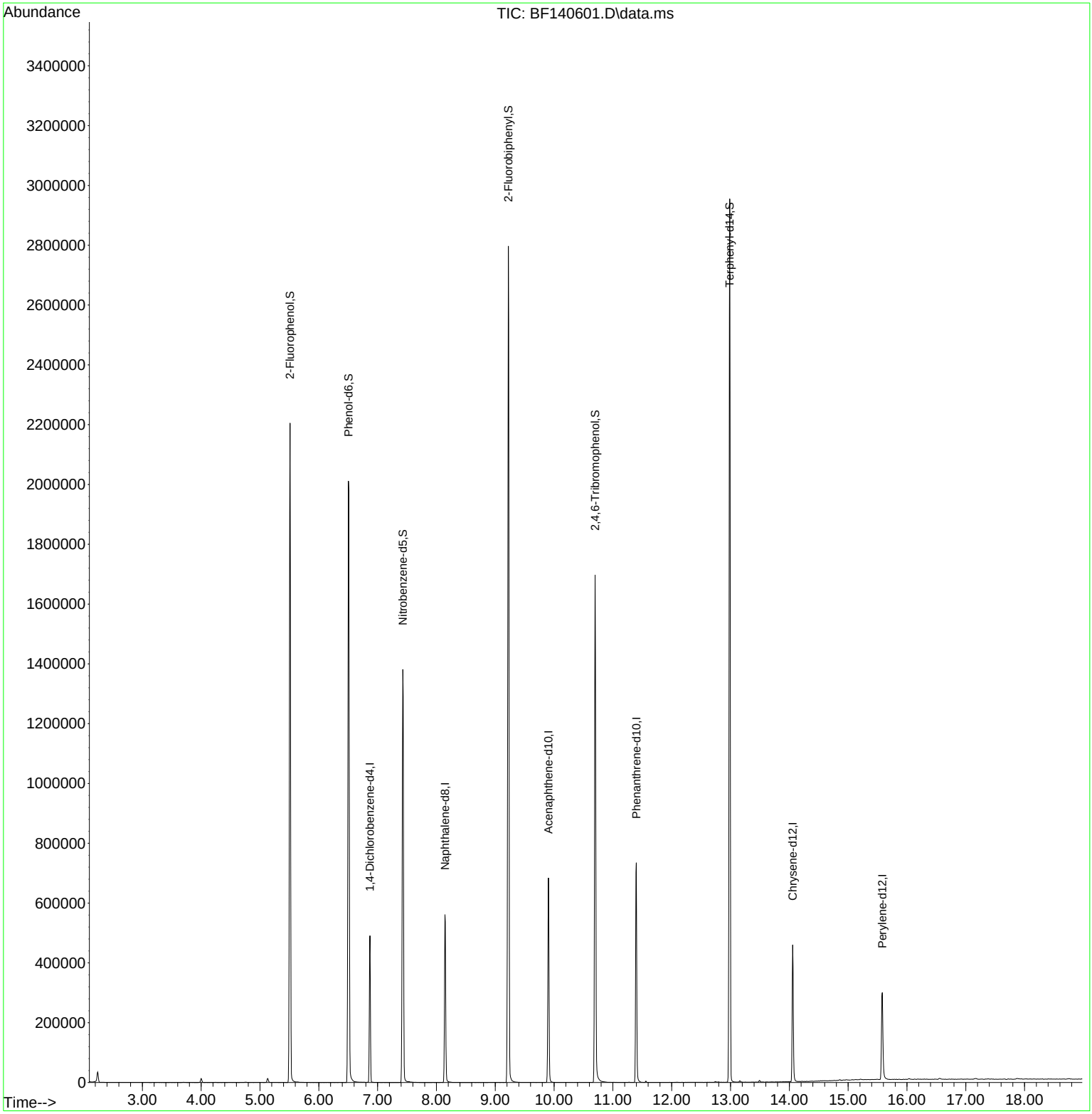
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	105039	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	390263	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	219360	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	422337	20.000	ng	0.00
76) Chrysene-d12	14.057	240	238471	20.000	ng	0.00
86) Perylene-d12	15.580	264	201118	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	839893	136.429	ng	0.01
7) Phenol-d6	6.504	99	1064236	130.762	ng	-0.01
23) Nitrobenzene-d5	7.428	82	703826	92.248	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	313171	133.487	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1378620	93.639	ng	-0.01
79) Terphenyl-d14	12.986	244	1503320	98.161	ng	0.00
Target Compounds						Qvalue

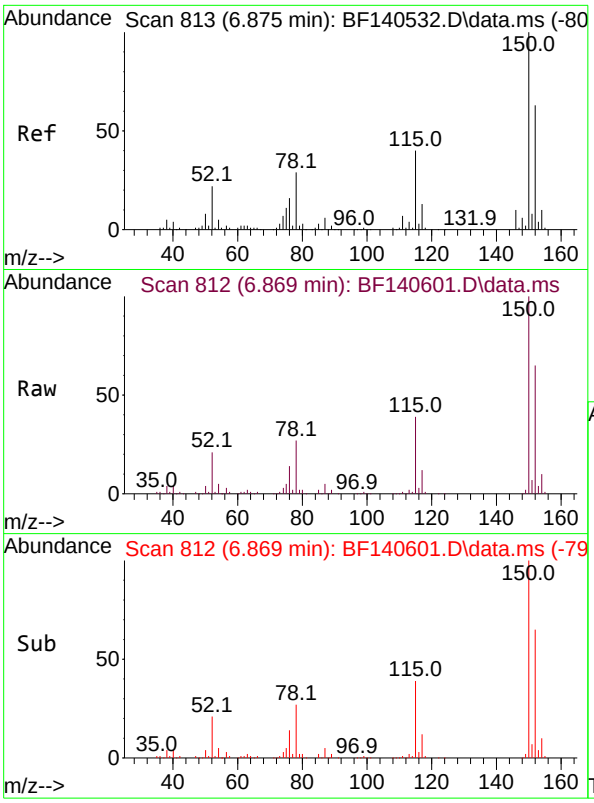
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Time: Nov 25 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



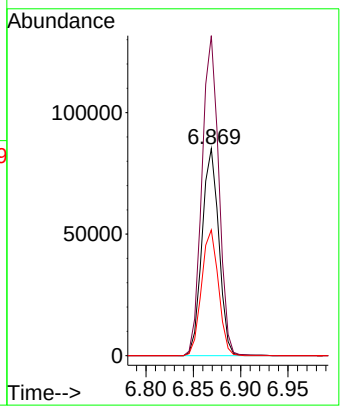


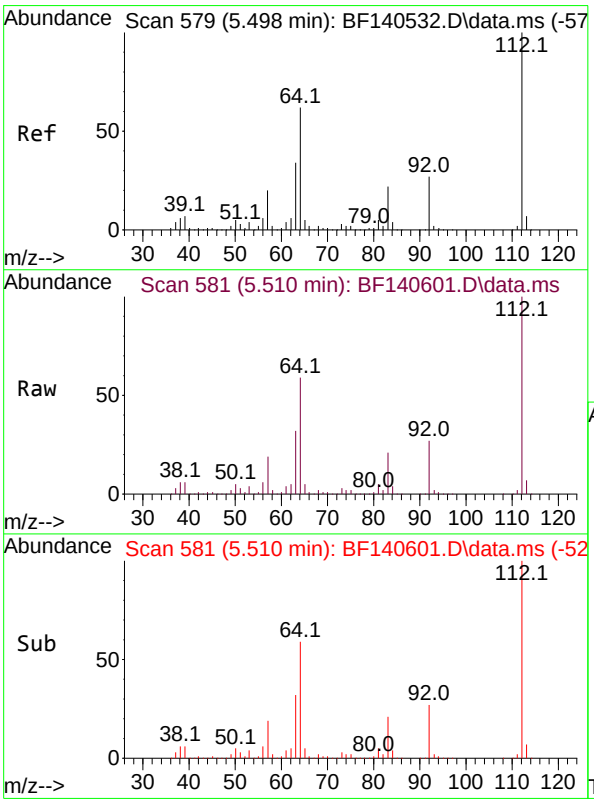
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:152 Resp: 105039

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.5	192.7
115	60.7	50.2	75.4

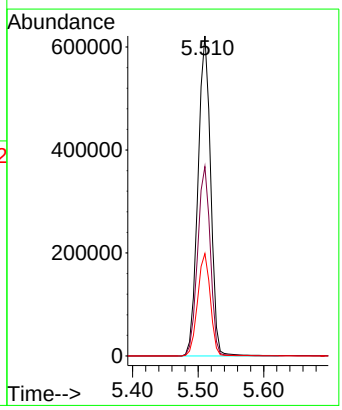


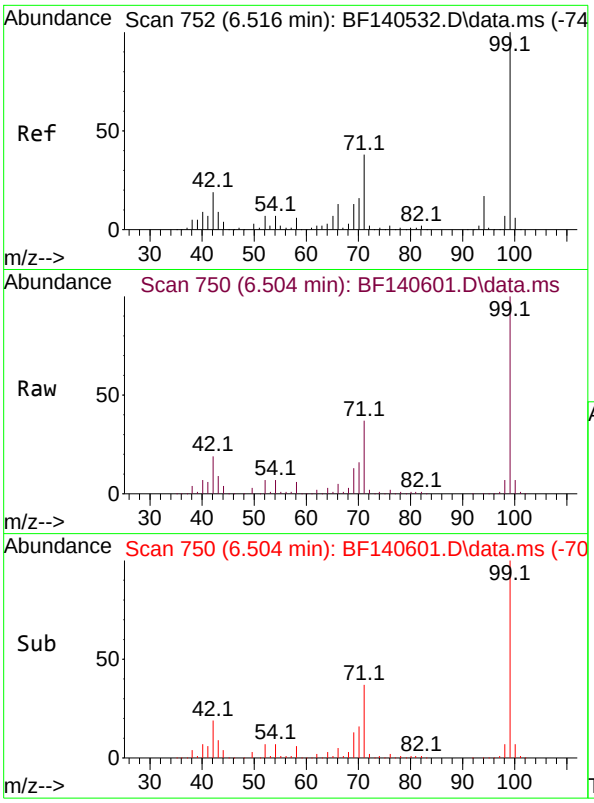


#5
2-Fluorophenol
Concen: 136.429 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:112 Resp: 839893

Ion	Ratio	Lower	Upper
112	100		
64	59.2	49.2	73.8
63	32.0	27.0	40.4



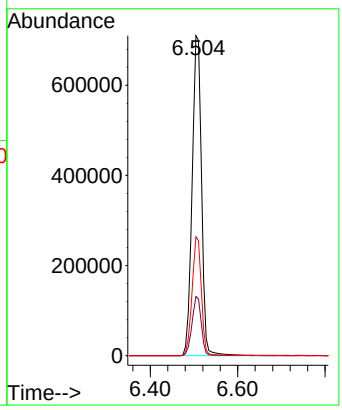


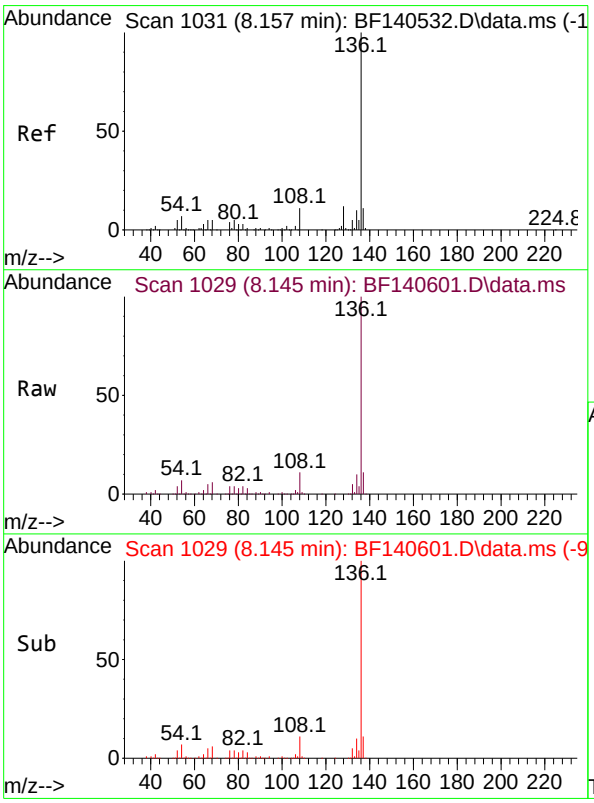
#7
Phenol-d6
Concen: 130.762 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion: 99 Resp: 1064236

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.4	23.0
71	37.1	30.6	46.0

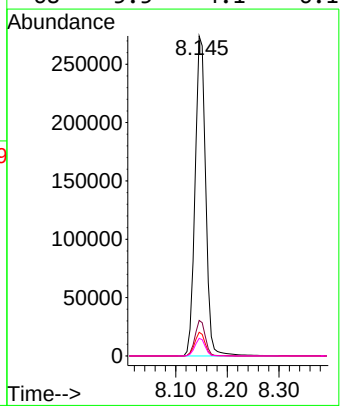


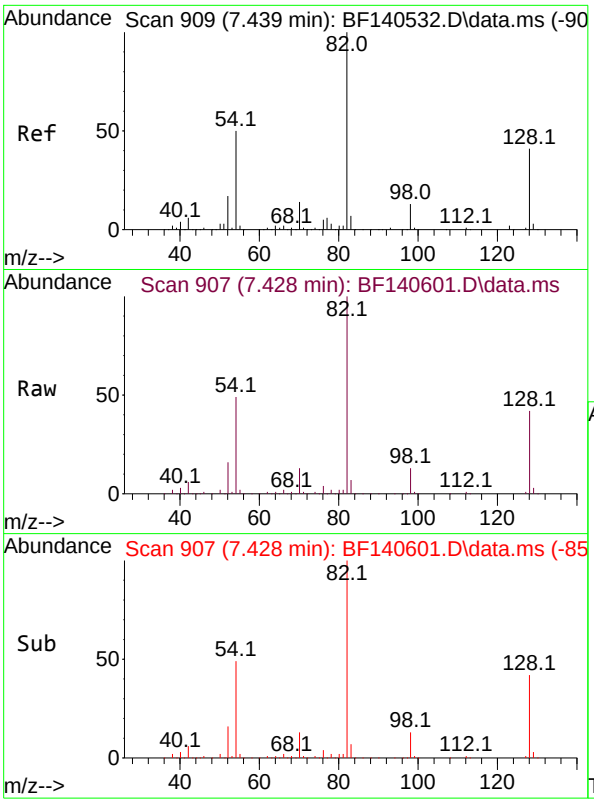


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:136 Resp: 390263

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	7.4	5.8	8.8
68	5.5	4.1	6.1



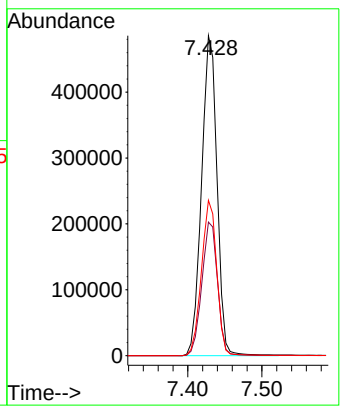


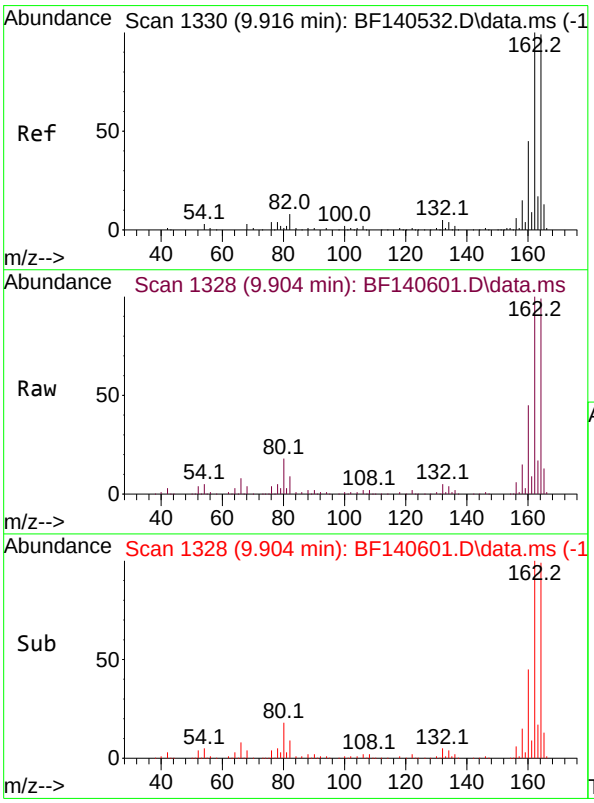
#23
Nitrobenzene-d5
Concen: 92.248 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion: 82 Resp: 703826

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.0	49.4
54	48.5	39.5	59.3

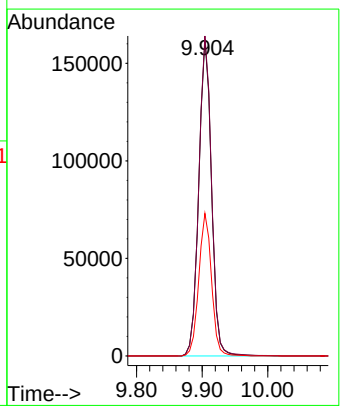


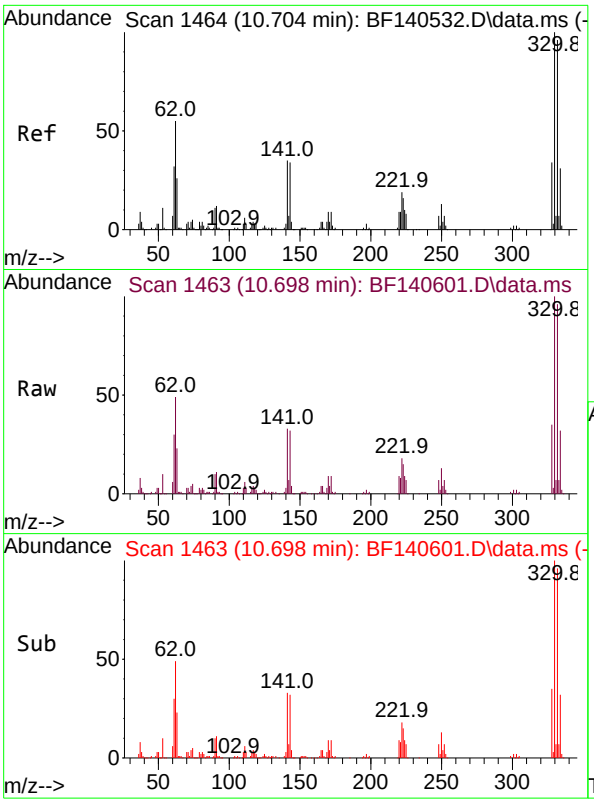


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:164 Resp: 219360

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	120.8
160	45.1	36.2	54.4



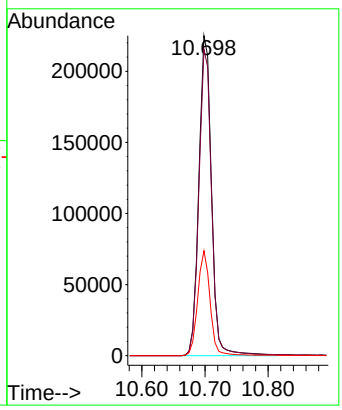


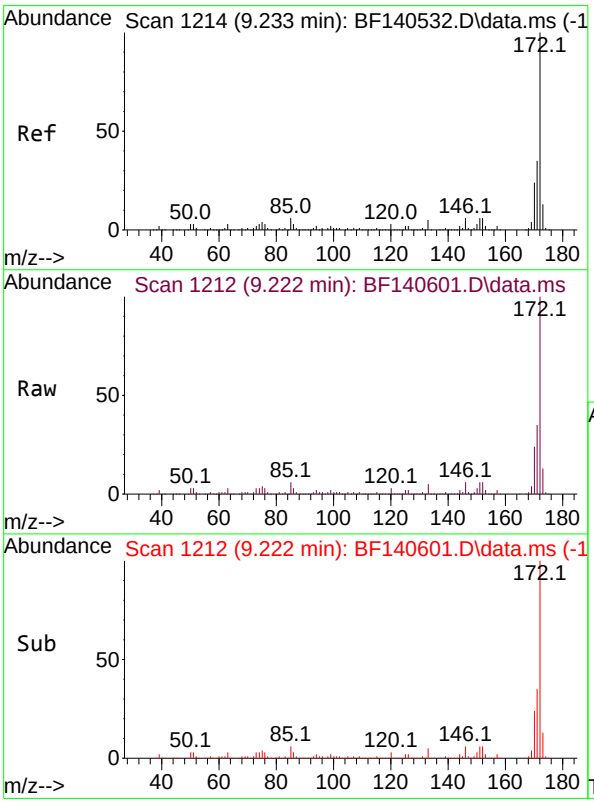
#42
2,4,6-Tribromophenol
Concen: 133.487 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:330 Resp: 313171

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	32.4	26.7	40.1

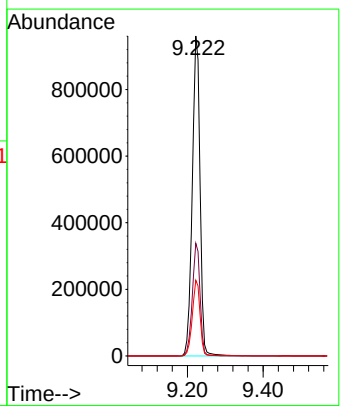


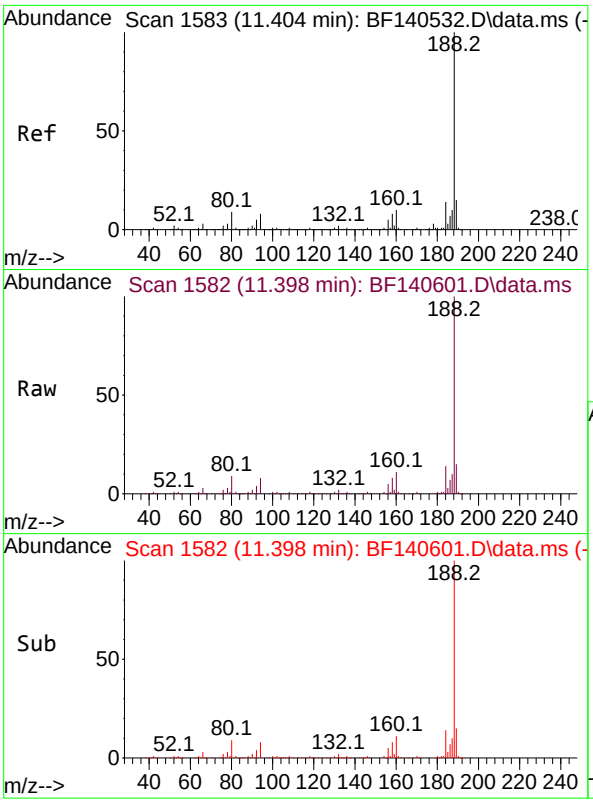


#45
2-Fluorobiphenyl
Concen: 93.639 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:172 Resp: 1378620

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.7	19.0	28.6



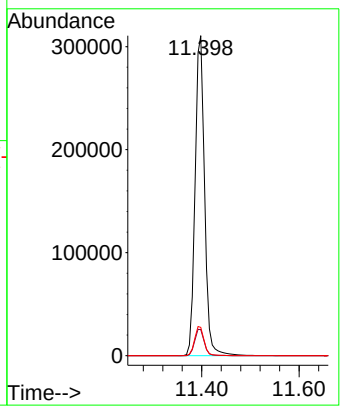


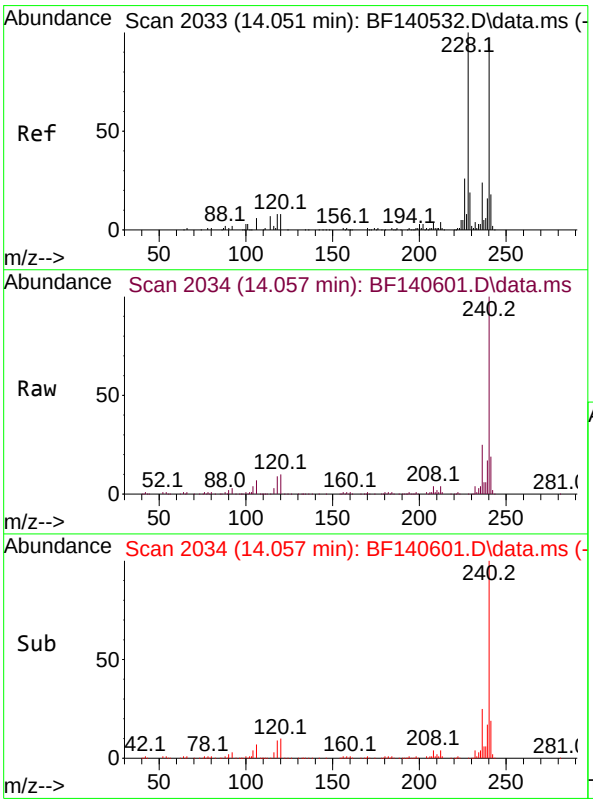
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:188 Resp: 422337

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.9	6.9	10.3

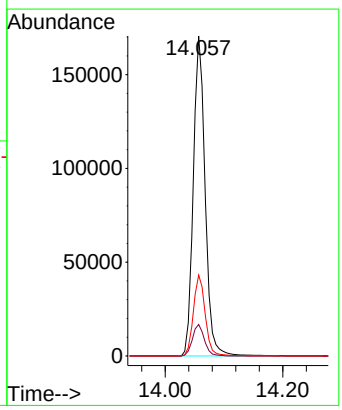


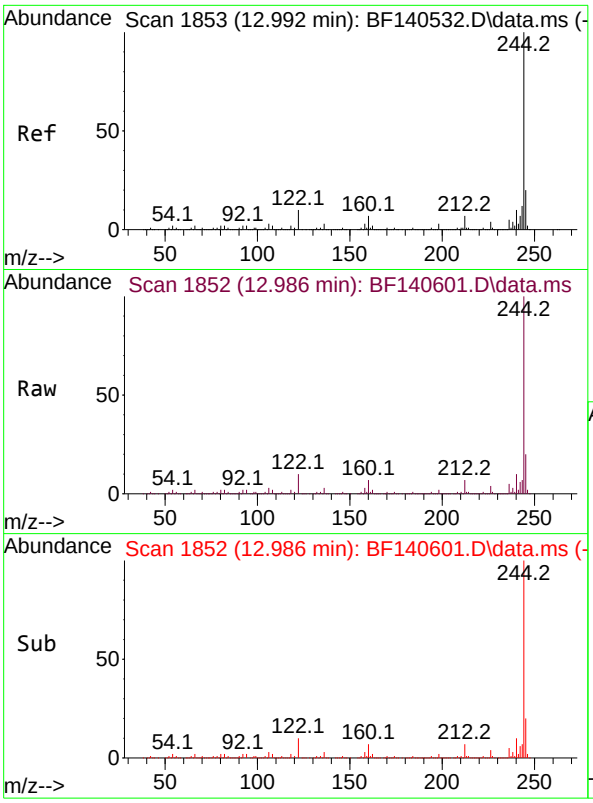


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:240 Resp: 238471

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.3	10.9
236	25.3	20.6	31.0



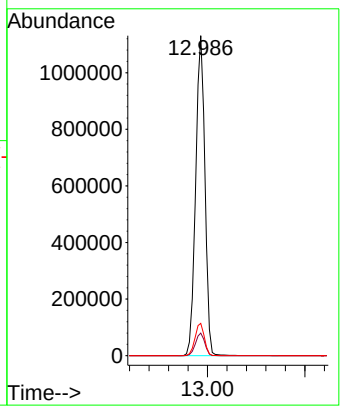


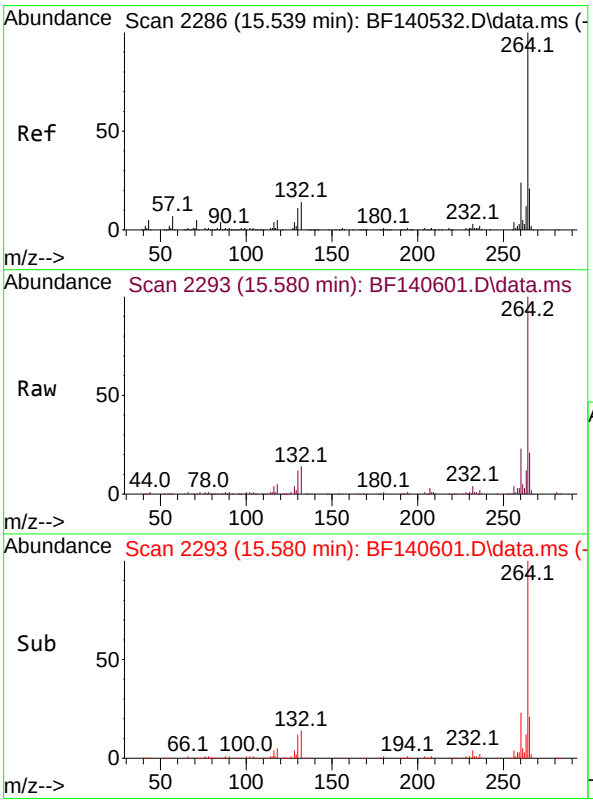
#79
Terphenyl-d14
Concen: 98.161 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:244 Resp: 1503320

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	10.1	8.0	12.0

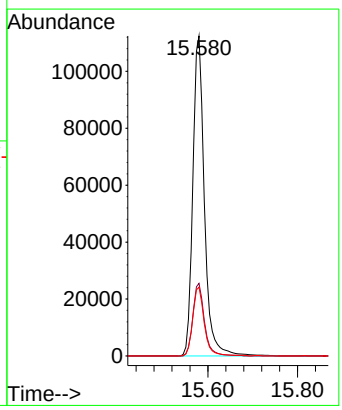




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.041 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:264 Resp: 201118

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.0	28.6
265	21.5	16.6	25.0



Sample Results: **BF140601.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140601.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	11	25	32	rVB	34244	63804	1.61%	0.281%
2	5.510	575	581	586	rBV	2204989	2961294	74.74%	13.054%
3	6.504	744	750	770	rBV	2011018	3003080	75.80%	13.238%
4	6.869	807	812	817	rBV	490276	604561	15.26%	2.665%
5	7.428	901	907	924	rBV	1381583	2003501	50.57%	8.832%
6	8.145	1023	1029	1042	rBV	561255	784132	19.79%	3.457%
7	9.222	1205	1212	1243	rBV	2797087	3961932	100.00%	17.465%
8	9.904	1321	1328	1348	rVB	684222	919029	23.20%	4.051%
9	10.698	1457	1463	1488	rBV	1696800	2327294	58.74%	10.259%
10	11.398	1576	1582	1605	rVB	734623	989235	24.97%	4.361%
11	12.986	1846	1852	1857	rBV	2953701	3917606	98.88%	17.270%
12	14.057	2029	2034	2049	rBV	457806	634355	16.01%	2.796%
13	15.580	2286	2293	2313	rBV	290609	514817	12.99%	2.269%

Sum of corrected areas: 22684640

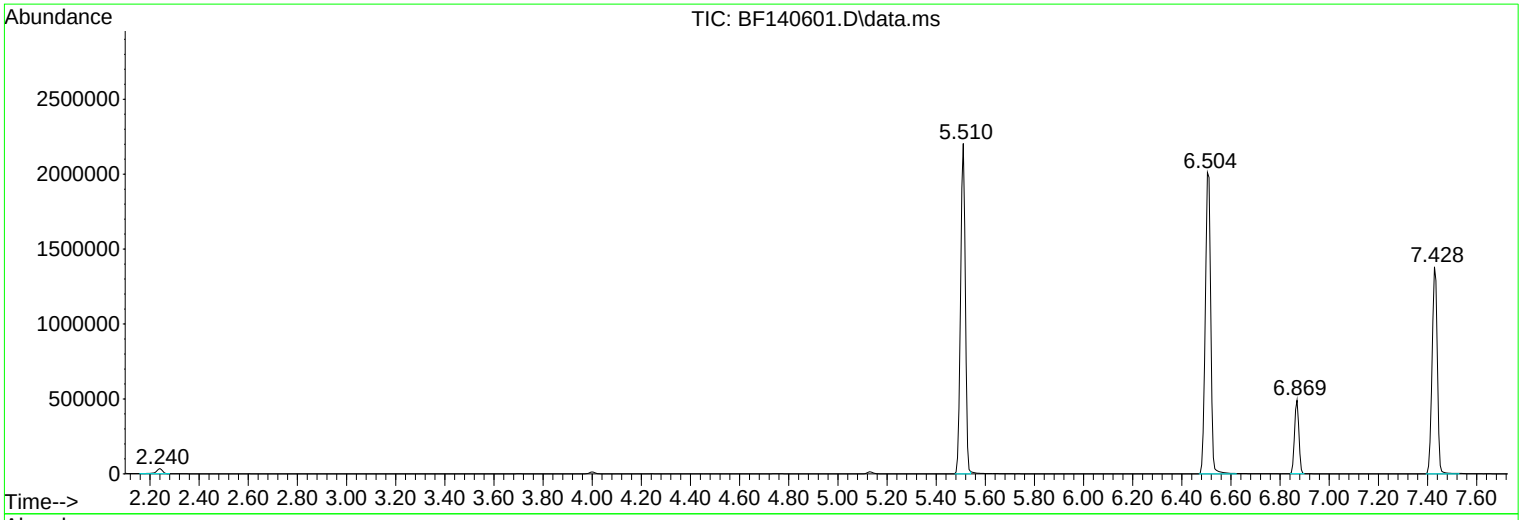
Sample Results: **BF140601.D**

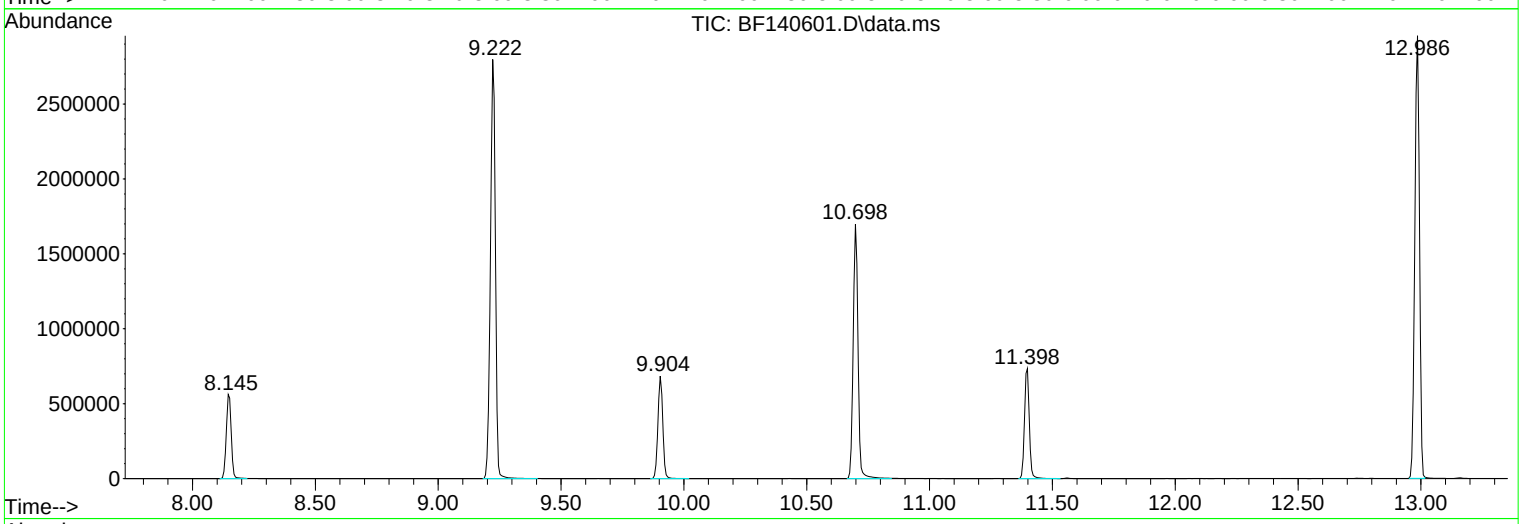
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

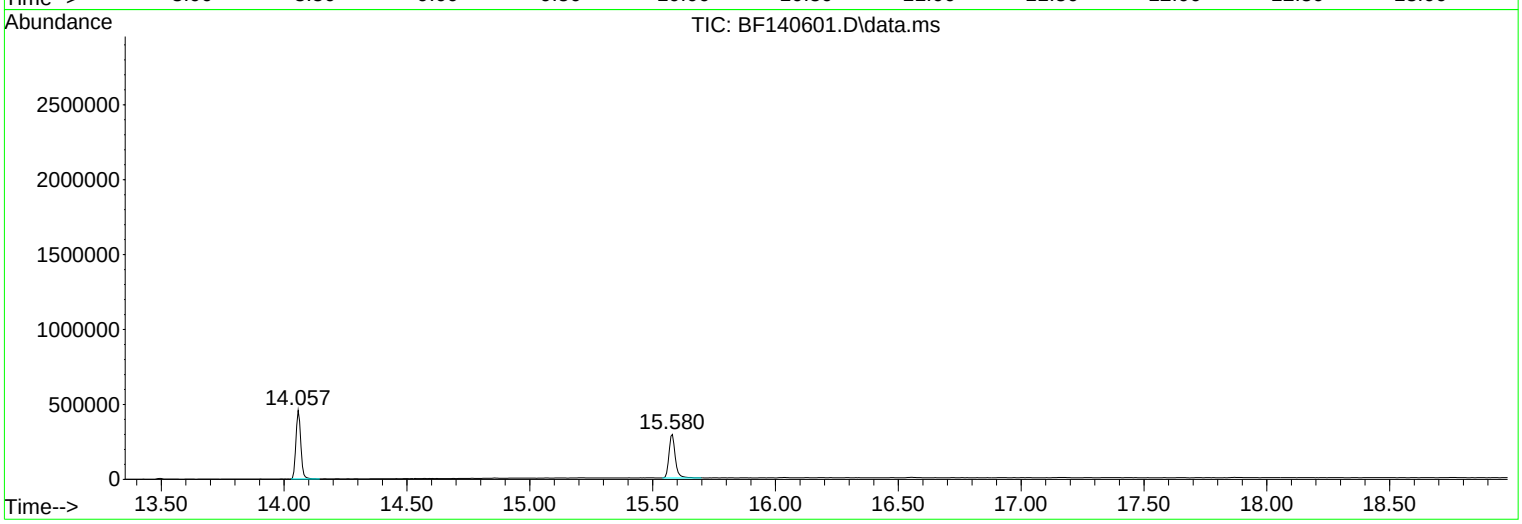
Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

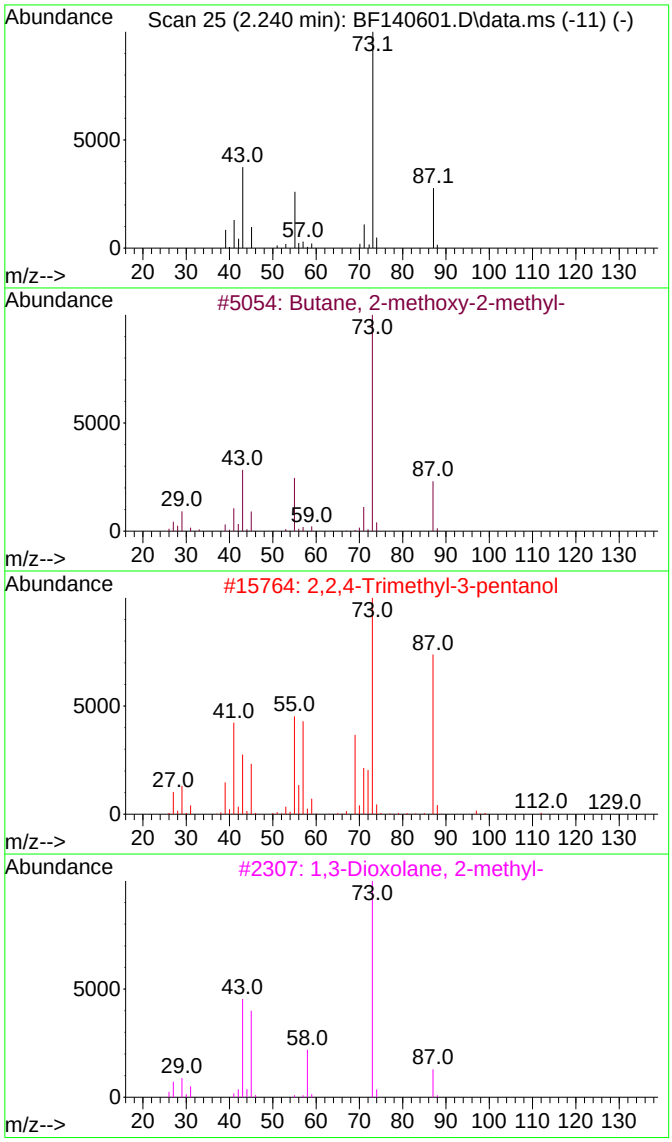
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

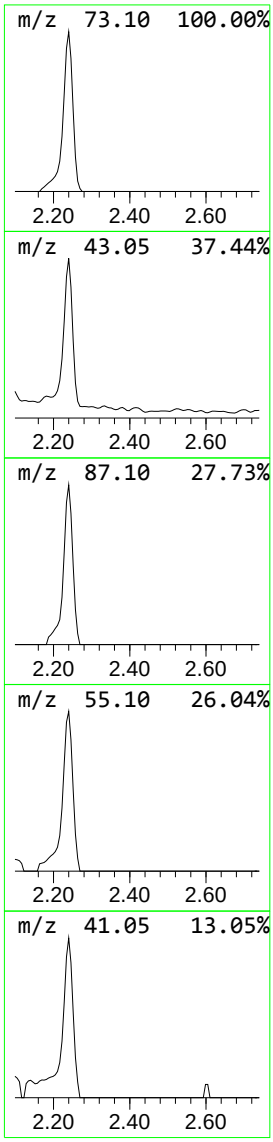
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.11 ng	63804	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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	2.1	ng	63804	1	6.869	604561	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	95461	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	360433	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	204239	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	384268	20.000	ng		0.00
76) Chrysene-d12	14.051	240	226332	20.000	ng		0.00
86) Perylene-d12	15.551	264	183684	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	786656	140.602	ng		0.02
7) Phenol-d6	6.516	99	1028062	138.991	ng		0.00
23) Nitrobenzene-d5	7.434	82	675051	95.799	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	312581	143.100	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1279048	93.308	ng		0.00
79) Terphenyl-d14	12.986	244	1402340	96.479	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.758	88	106907	45.447	ng		97
3) Pyridine	3.516	79	270543	52.271	ng		100
4) n-Nitrosodimethylamine	3.469	42	148775	48.908	ng		93
6) Aniline	6.534	93	264036	50.716	ng	#	78
8) 2-Chlorophenol	6.663	128	315221	52.369	ng		96
9) Benzaldehyde	6.422	77	24983	6.380	ng		98
10) Phenol	6.528	94	387598	51.312	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	295208	51.071	ng		99
12) 1,3-Dichlorobenzene	6.810	146	325129	48.071	ng		99
13) 1,4-Dichlorobenzene	6.887	146	325939	47.594	ng		100
14) 1,2-Dichlorobenzene	7.040	146	313851	48.908	ng		100
15) Benzyl Alcohol	7.016	79	288141	52.530	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.140	45	360776	52.831	ng		89
17) 2-Methylphenol	7.128	107	249475	51.776	ng		98
18) Hexachloroethane	7.381	117	121736	47.595	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	221858	50.752	ng		99
20) 3+4-Methylphenols	7.281	107	318248	51.386	ng		98
22) Acetophenone	7.281	105	429201	48.844	ng		99
24) Nitrobenzene	7.451	77	342592	47.041	ng		99
25) Isophorone	7.692	82	612974	52.154	ng		99
26) 2-Nitrophenol	7.769	139	168892	52.330	ng		97
27) 2,4-Dimethylphenol	7.810	122	254935	66.019	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	364440	50.899	ng		100
29) 2,4-Dichlorophenol	8.016	162	262636	51.328	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	275345	47.130	ng		99
31) Naphthalene	8.175	128	905626	48.780	ng		100
32) Benzoic acid	7.940	122	154953	46.395	ng		97
33) 4-Chloroaniline	8.222	127	139898	25.168	ng		97
34) Hexachlorobutadiene	8.287	225	180530	46.653	ng		98
35) Caprolactam	8.598	113	78235m	49.406	ng		
36) 4-Chloro-3-methylphenol	8.716	107	286716	50.047	ng		100
37) 2-Methylnaphthalene	8.863	142	593210	50.306	ng		99
38) 1-Methylnaphthalene	8.963	142	556200	48.120	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	289964	48.496	ng		98
41) Hexachlorocyclopentadiene	9.016	237	263786	185.676	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	185930	49.557	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	193087	47.421	ng	96
46) 1,1'-Biphenyl	9.328	154	739237	48.479	ng	100
47) 2-Chloronaphthalene	9.357	162	550668	47.659	ng	99
48) 2-Nitroaniline	9.457	65	181803	49.021	ng	96
49) Acenaphthylene	9.775	152	914236	52.369	ng	100
50) Dimethylphthalate	9.628	163	667700	49.639	ng	100
51) 2,6-Dinitrotoluene	9.698	165	143481	47.033	ng	94
52) Acenaphthene	9.945	154	557453	50.255	ng	98
53) 3-Nitroaniline	9.869	138	98515	33.018	ng	95
54) 2,4-Dinitrophenol	9.981	184	137274	86.212	ng	96
55) Dibenzofuran	10.116	168	834818	49.340	ng	99
56) 4-Nitrophenol	10.045	139	199246	97.917	ng	94
57) 2,4-Dinitrotoluene	10.104	165	201607	49.726	ng	98
58) Fluorene	10.463	166	672115	49.490	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	170505	54.486	ng	95
60) Diethylphthalate	10.328	149	678334	49.635	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	332587	49.901	ng	96
62) 4-Nitroaniline	10.486	138	150568	48.116	ng	97
63) Azobenzene	10.610	77	644651	49.810	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	103971	52.948	ng	95
66) n-Nitrosodiphenylamine	10.569	169	572661	50.393	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	194886	49.246	ng	99
68) Hexachlorobenzene	11.010	284	224667	49.030	ng	100
69) Atrazine	11.098	200	184571	57.735	ng	99
70) Pentachlorophenol	11.210	266	204321	101.312	ng	99
71) Phenanthrene	11.428	178	935511	50.647	ng	99
72) Anthracene	11.475	178	955770	52.897	ng	100
73) Carbazole	11.633	167	869481	50.022	ng	100
74) Di-n-butylphthalate	11.951	149	1016934	50.676	ng	100
75) Fluoranthene	12.616	202	1008535	50.288	ng	99
77) Benzidine	12.733	184	235993	35.863	ng	99
78) Pyrene	12.845	202	1028303	49.137	ng	100
80) Butylbenzylphthalate	13.457	149	395492	52.461	ng	100
81) Benzo(a)anthracene	14.039	228	756335	50.482	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	150175	33.385	ng	99
83) Chrysene	14.080	228	708791	51.738	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	513313	53.923	ng	100
85) Di-n-octyl phthalate	14.651	149	724749	55.710	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	607172	50.722	ng	98
88) Benzo(b)fluoranthene	15.116	252	600609	52.057	ng	99
89) Benzo(k)fluoranthene	15.145	252	520314	51.535	ng	99
90) Benzo(a)pyrene	15.492	252	515240	54.925	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	494149	50.406	ng	99
92) Benzo(g,h,i)perylene	17.515	276	449443	44.927	ng	98

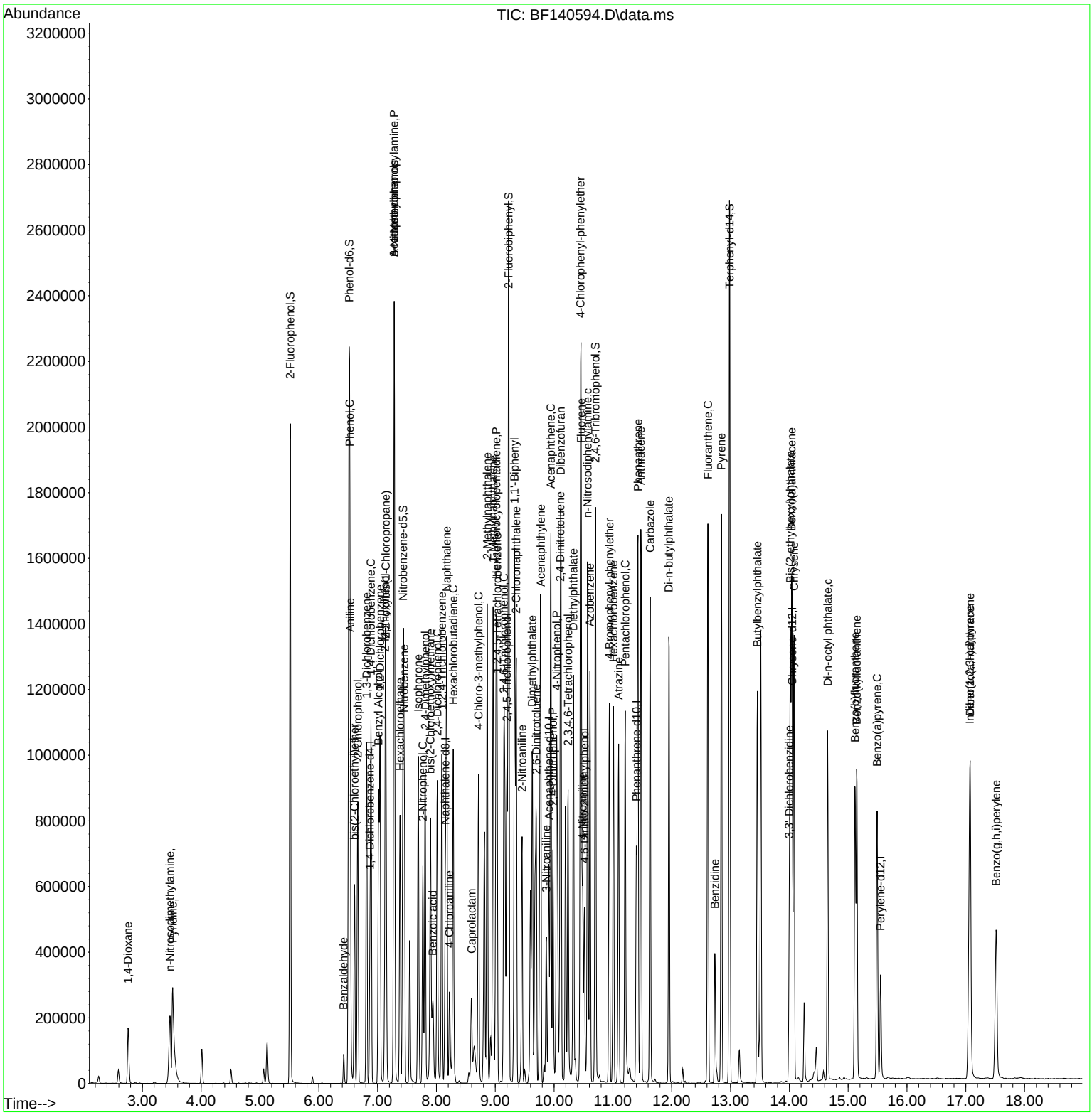
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	99301	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	382645	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	214473	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	401581	20.000	ng		0.00
76) Chrysene-d12	14.051	240	233962	20.000	ng		0.00
86) Perylene-d12	15.557	264	195258	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	846159	145.389	ng		0.02
7) Phenol-d6	6.516	99	1097124	142.592	ng		0.00
23) Nitrobenzene-d5	7.434	82	721964	96.509	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	341909	149.058	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1385588	96.257	ng		0.00
79) Terphenyl-d14	12.986	244	1517791	101.016	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.757	88	113338	46.317	ng		99
3) Pyridine	3.516	79	284772	52.893	ng		100
4) n-Nitrosodimethylamine	3.469	42	159233	50.321	ng		94
6) Aniline	6.534	93	296838	54.812	ng	#	76
8) 2-Chlorophenol	6.663	128	331219	52.898	ng		96
9) Benzaldehyde	6.422	77	157871	38.759	ng		99
10) Phenol	6.528	94	410774	52.277	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	312507	51.973	ng		99
12) 1,3-Dichlorobenzene	6.810	146	349953	49.740	ng		99
13) 1,4-Dichlorobenzene	6.887	146	356626	50.061	ng		99
14) 1,2-Dichlorobenzene	7.039	146	335974	50.331	ng		99
15) Benzyl Alcohol	7.016	79	306875	53.782	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	384656	54.150	ng		87
17) 2-Methylphenol	7.134	107	260567	51.987	ng		97
18) Hexachloroethane	7.381	117	132570	49.826	ng		98
19) n-Nitroso-di-n-propyla...	7.287	70	236264	51.958	ng		97
20) 3+4-Methylphenols	7.281	107	335470	52.072	ng		96
22) Acetophenone	7.281	105	449242	48.157	ng		99
24) Nitrobenzene	7.457	77	360886	46.677	ng		98
25) Isophorone	7.692	82	640025	51.295	ng		100
26) 2-Nitrophenol	7.769	139	178581	52.120	ng		98
27) 2,4-Dimethylphenol	7.810	122	265144	64.677	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	387181	50.936	ng		100
29) 2,4-Dichlorophenol	8.016	162	279062	51.372	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	294239	47.440	ng		99
31) Naphthalene	8.175	128	961872	48.802	ng		100
32) Benzoic acid	7.945	122	166417	46.851	ng		99
33) 4-Chloroaniline	8.222	127	131641	22.308	ng		98
34) Hexachlorobutadiene	8.286	225	197852	48.161	ng		99
35) Caprolactam	8.598	113	86604m	51.517	ng		
36) 4-Chloro-3-methylphenol	8.716	107	311756	51.259	ng		99
37) 2-Methylnaphthalene	8.863	142	636017	50.805	ng		100
38) 1-Methylnaphthalene	8.963	142	593614	48.376	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	307592	48.990	ng		99
41) Hexachlorocyclopentadiene	9.016	237	289488	193.715	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	200728	50.949	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	213723	49.984	ng	98
46) 1,1'-Biphenyl	9.328	154	791809	49.449	ng	100
47) 2-Chloronaphthalene	9.357	162	592185	48.807	ng	99
48) 2-Nitroaniline	9.457	65	199018	51.102	ng	98
49) Acenaphthylene	9.775	152	977979	53.347	ng	100
50) Dimethylphthalate	9.633	163	724262	51.275	ng	100
51) 2,6-Dinitrotoluene	9.698	165	158048	49.336	ng	94
52) Acenaphthene	9.945	154	596240	51.187	ng	99
53) 3-Nitroaniline	9.869	138	100618	32.114	ng	94
54) 2,4-Dinitrophenol	9.980	184	152527	90.766	ng	96
55) Dibenzofuran	10.116	168	893805	50.306	ng	99
56) 4-Nitrophenol	10.045	139	213899	100.102	ng	96
57) 2,4-Dinitrotoluene	10.104	165	211757	49.737	ng	98
58) Fluorene	10.463	166	706702	49.554	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	183707	55.904	ng	95
60) Diethylphthalate	10.327	149	729880	50.858	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	346192	49.464	ng	97
62) 4-Nitroaniline	10.486	138	162008	49.301	ng	97
63) Azobenzene	10.610	77	687690	50.600	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	114647	55.868	ng	98
66) n-Nitrosodiphenylamine	10.569	169	605842	51.015	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	209859	50.744	ng	97
68) Hexachlorobenzene	11.010	284	242139	50.565	ng	100
69) Atrazine	11.098	200	204968	61.351	ng	100
70) Pentachlorophenol	11.210	266	217924	103.398	ng	99
71) Phenanthrene	11.427	178	997351	51.667	ng	100
72) Anthracene	11.480	178	1020413	54.040	ng	100
73) Carbazole	11.633	167	919335	50.610	ng	100
74) Di-n-butylphthalate	11.957	149	1080749	51.534	ng	100
75) Fluoranthene	12.616	202	1065582	50.842	ng	99
77) Benzidine	12.733	184	303000	44.544	ng	99
78) Pyrene	12.845	202	1095938	50.661	ng	100
80) Butylbenzylphthalate	13.457	149	420209	53.922	ng	98
81) Benzo(a)anthracene	14.039	228	830546	53.627	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	154079	33.136	ng	100
83) Chrysene	14.080	228	735574	51.942	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	539818	54.858	ng	99
85) Di-n-octyl phthalate	14.651	149	772524	57.445	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	647722	50.903	ng	98
88) Benzo(b)fluoranthene	15.121	252	621111	50.643	ng	99
89) Benzo(k)fluoranthene	15.151	252	583206	54.340	ng	99
90) Benzo(a)pyrene	15.492	252	561220	56.280	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	529761	50.835	ng	98
92) Benzo(g,h,i)perylene	17.527	276	490635	46.138	ng	99

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

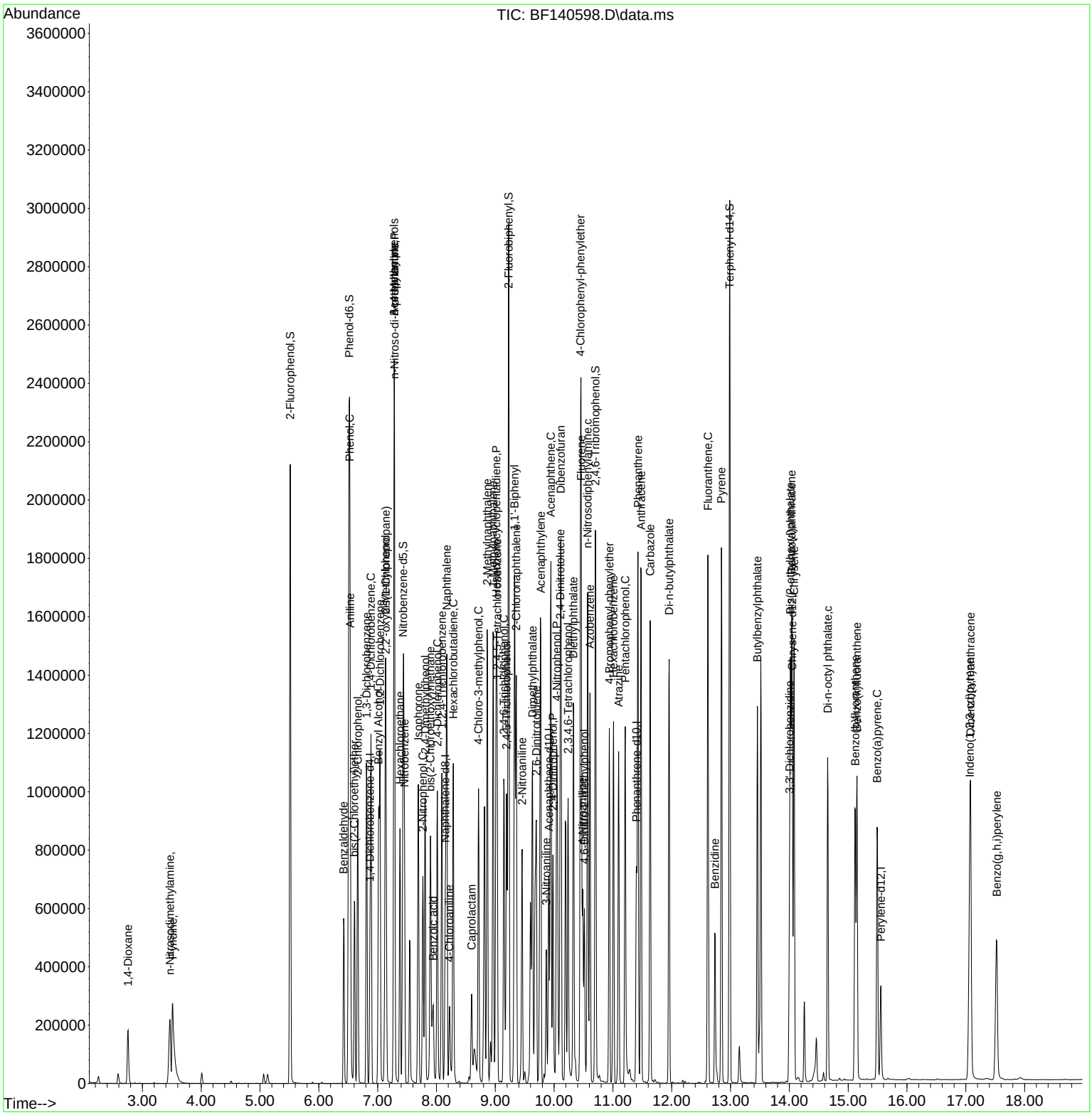
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	109034	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	414003	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	229665	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	432290	20.000	ng	0.00
76) Chrysene-d12	14.051	240	254104	20.000	ng	0.00
86) Perylene-d12	15.557	264	215389	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	795018	124.408	ng	0.01
7) Phenol-d6	6.510	99	1025257	121.357	ng	0.00
23) Nitrobenzene-d5	7.434	82	672895	83.137	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	315302	128.365	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1296266	84.095	ng	0.00
79) Terphenyl-d14	12.986	244	1412352	86.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.746	88	104266	38.806	ng	98
3) Pyridine	3.505	79	258709	43.763	ng	99
4) n-Nitrosodimethylamine	3.458	42	143492	41.299	ng	92
6) Aniline	6.534	93	282196	47.457	ng	90
8) 2-Chlorophenol	6.663	128	309174	44.970	ng	95
9) Benzaldehyde	6.422	77	153487	34.319	ng	99
10) Phenol	6.528	94	387813	44.949	ng	99
11) bis(2-Chloroethyl)ether	6.604	93	291837	44.203	ng	99
12) 1,3-Dichlorobenzene	6.810	146	325535	42.139	ng	99
13) 1,4-Dichlorobenzene	6.887	146	327404	41.856	ng	99
14) 1,2-Dichlorobenzene	7.040	146	315458	43.039	ng	100
15) Benzyl Alcohol	7.016	79	280243	44.730	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.140	45	364425	46.722	ng	93
17) 2-Methylphenol	7.128	107	245042	44.525	ng	98
18) Hexachloroethane	7.381	117	124362	42.569	ng	98
19) n-Nitroso-di-n-propyla...	7.281	70	221100	44.283	ng	98
20) 3+4-Methylphenols	7.281	107	313821	44.364	ng	98
22) Acetophenone	7.281	105	418321	41.446	ng	100
24) Nitrobenzene	7.451	77	342083	40.893	ng	100
25) Isophorone	7.693	82	600875	44.510	ng	100
26) 2-Nitrophenol	7.769	139	167298	45.129	ng	97
27) 2,4-Dimethylphenol	7.804	122	245077	55.254	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	365627	44.457	ng	100
29) 2,4-Dichlorophenol	8.016	162	264433	44.992	ng	97
30) 1,2,4-Trichlorobenzene	8.093	180	273802	40.802	ng	99
31) Naphthalene	8.175	128	905902	42.481	ng	99
32) Benzoic acid	7.940	122	150123	40.258	ng	99
33) 4-Chloroaniline	8.222	127	137348	21.512	ng	100
34) Hexachlorobutadiene	8.287	225	184677	41.549	ng	99
35) Caprolactam	8.592	113	79973m	43.969	ng	
36) 4-Chloro-3-methylphenol	8.716	107	289415	43.981	ng	98
37) 2-Methylnaphthalene	8.863	142	594944	43.925	ng	100
38) 1-Methylnaphthalene	8.963	142	551141	41.513	ng	98
40) 1,2,4,5-Tetrachloroben...	9.028	216	290675	43.233	ng	99
41) Hexachlorocyclopentadiene	9.016	237	260138	163.733	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	187773	44.508	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	197888	43.219	ng	97
46) 1,1'-Biphenyl	9.328	154	747311	43.583	ng	99
47) 2-Chloronaphthalene	9.357	162	553197	42.578	ng	99
48) 2-Nitroaniline	9.451	65	186161	44.639	ng	99
49) Acenaphthylene	9.769	152	912286	46.472	ng	99
50) Dimethylphthalate	9.628	163	685858	45.344	ng	100
51) 2,6-Dinitrotoluene	9.698	165	147685	43.052	ng	92
52) Acenaphthene	9.945	154	557959	44.732	ng	98
53) 3-Nitroaniline	9.869	138	96688	28.818	ng	92
54) 2,4-Dinitrophenol	9.981	184	136283	77.031	ng	96
55) Dibenzofuran	10.116	168	834711	43.872	ng	99
56) 4-Nitrophenol	10.039	139	199311	87.105	ng	96
57) 2,4-Dinitrotoluene	10.104	165	197463	43.312	ng	97
58) Fluorene	10.457	166	664573	43.517	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	170039	48.322	ng	95
60) Diethylphthalate	10.328	149	680128	44.256	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	324555	43.305	ng	97
62) 4-Nitroaniline	10.486	138	151693	43.108	ng	93
63) Azobenzene	10.610	77	642026	44.115	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	104960	47.514	ng	95
66) n-Nitrosodiphenylamine	10.569	169	569542	44.551	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	194816	43.760	ng	97
68) Hexachlorobenzene	11.010	284	221937	43.054	ng	99
69) Atrazine	11.098	200	188654	52.457	ng	99
70) Pentachlorophenol	11.210	266	197828	87.195	ng	99
71) Phenanthrene	11.428	178	933782	44.937	ng	99
72) Anthracene	11.475	178	949881	46.731	ng	100
73) Carbazole	11.633	167	865023	44.237	ng	100
74) Di-n-butylphthalate	11.957	149	1016548	45.029	ng	99
75) Fluoranthene	12.616	202	1004061	44.503	ng	99
77) Benzidine	12.733	184	264161	35.756	ng	100
78) Pyrene	12.845	202	1030730	43.870	ng	99
80) Butylbenzylphthalate	13.457	149	396298	46.822	ng	98
81) Benzo(a)anthracene	14.039	228	789309	46.925	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	147281	29.163	ng	100
83) Chrysene	14.080	228	687256	44.683	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	509958	47.716	ng	99
85) Di-n-octyl phthalate	14.657	149	730693	50.028	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	606607	43.216	ng	98
88) Benzo(b)fluoranthene	15.121	252	574094	42.435	ng	99
89) Benzo(k)fluoranthene	15.151	252	571947	48.311	ng	99
90) Benzo(a)pyrene	15.498	252	539283	49.025	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	498038	43.325	ng	99
92) Benzo(g,h,i)perylene	17.521	276	452716	38.593	ng	98

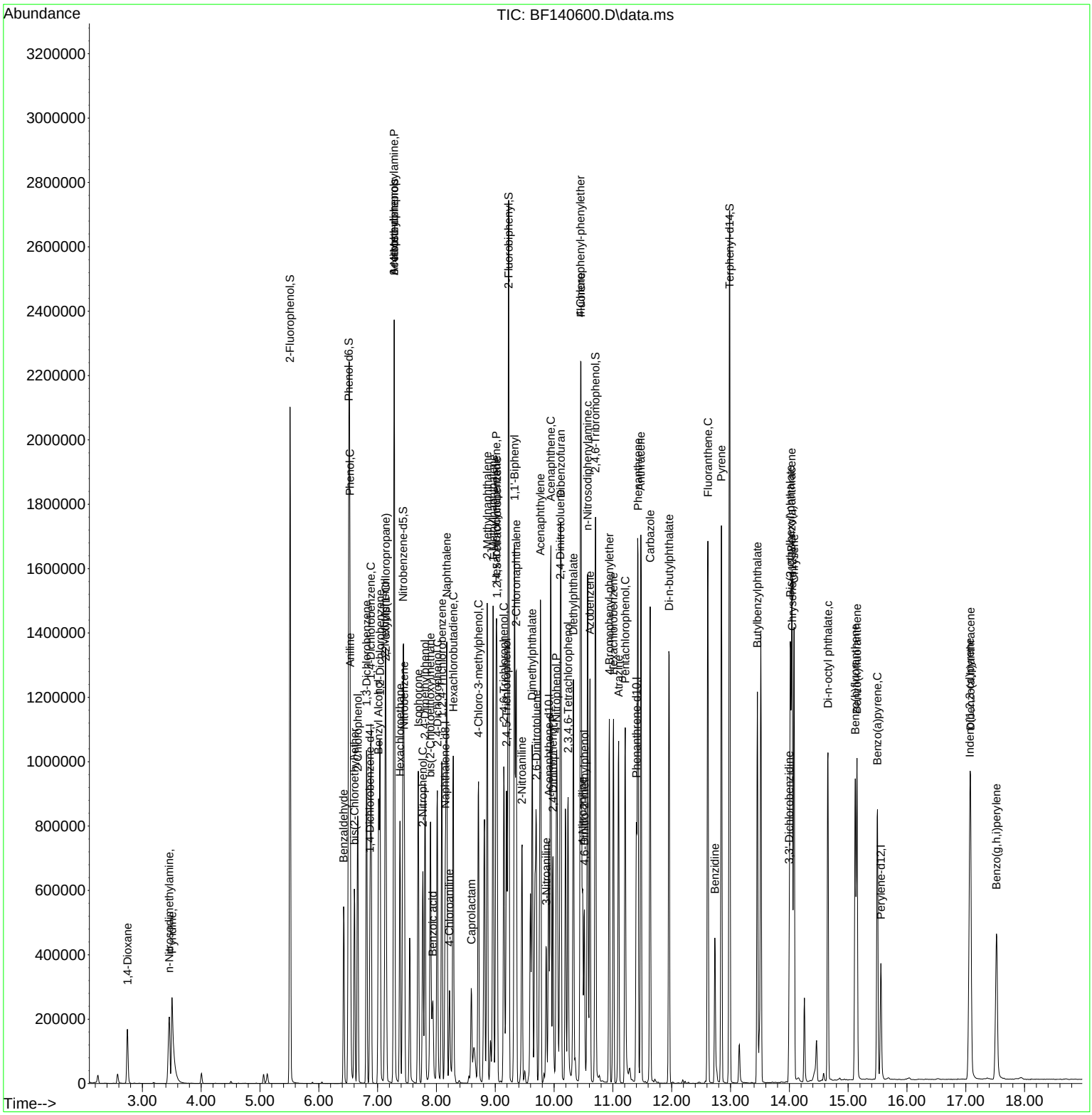
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/22/2024
Supervised By :mohammad ahmed
11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	124435	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	465260	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	249636	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	454496	20.000	ng		0.00
76) Chrysene-d12	14.057	240	229017	20.000	ng		0.00
86) Perylene-d12	15.568	264	239777	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	661003	90.697	ng		0.02
7) Phenol-d6	6.516	99	856389	86.731	ng		0.01
23) Nitrobenzene-d5	7.434	82	556896	62.365	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	239726	96.569	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1026634	66.111	ng		0.00
79) Terphenyl-d14	12.980	244	967340	73.318	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	120503	37.098	ng		98
3) Pyridine	3.446	79	273858	34.294	ng		99
4) n-Nitrosodimethylamine	3.399	42	170170	42.163	ng		99
6) Aniline	6.540	93	322914	37.594	ng	#	67
8) 2-Chlorophenol	6.663	128	347796	44.426	ng		98
9) Benzaldehyde	6.428	77	28158	4.758	ng		97
10) Phenol	6.528	94	450604	43.273	ng		88
11) bis(2-Chloroethyl)ether	6.610	93	346354	43.898	ng		100
12) 1,3-Dichlorobenzene	6.816	146	367039	42.492	ng		99
13) 1,4-Dichlorobenzene	6.893	146	372103	42.485	ng		99
14) 1,2-Dichlorobenzene	7.045	146	354704	43.624	ng		100
15) Benzyl Alcohol	7.016	79	311092	43.730	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.146	45	457498	41.979	ng		75
17) 2-Methylphenol	7.134	107	272983	42.387	ng	#	93
18) Hexachloroethane	7.387	117	140279	43.324	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	244503	40.999	ng		99
20) 3+4-Methylphenols	7.287	107	334559	41.539	ng		95
22) Acetophenone	7.281	105	460959	42.599	ng		99
24) Nitrobenzene	7.457	77	385461	41.459	ng		99
25) Isophorone	7.693	82	679615	42.943	ng		100
26) 2-Nitrophenol	7.769	139	186248	45.143	ng		98
27) 2,4-Dimethylphenol	7.810	122	272973m	51.680	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	419149	43.193	ng		99
29) 2,4-Dichlorophenol	8.016	162	290893	44.562	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	302855	41.671	ng		99
31) Naphthalene	8.175	128	1004910	42.578	ng		100
32) Benzoic acid	7.934	122	175771	37.818	ng		96
33) 4-Chloroaniline	8.228	127	139160	16.954	ng		98
34) Hexachlorobutadiene	8.292	225	197566	42.665	ng		100
35) Caprolactam	8.592	113	91616m	42.226	ng		
36) 4-Chloro-3-methylphenol	8.716	107	310713	42.951	ng		99
37) 2-Methylnaphthalene	8.869	142	652863	43.139	ng		100
38) 1-Methylnaphthalene	8.969	142	603793	40.742	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	308094	44.630	ng		99
41) Hexachlorocyclopentadiene	9.016	237	304816	171.976	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	203832	44.993	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/22/2024
Supervised By :mohammad ahmed
11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	220223	44.461	ng	96
46) 1,1'-Biphenyl	9.328	154	807015	44.437	ng	100
47) 2-Chloronaphthalene	9.357	162	600001	43.370	ng	100
48) 2-Nitroaniline	9.457	65	199954	43.582	ng	99
49) Acenaphthylene	9.775	152	992239	47.405	ng	99
50) Dimethylphthalate	9.634	163	738750	45.401	ng	99
51) 2,6-Dinitrotoluene	9.698	165	161253	43.470	ng	96
52) Acenaphthene	9.945	154	698498m	49.408	ng	
53) 3-Nitroaniline	9.869	138	114209	29.317	ng	100
54) 2,4-Dinitrophenol	9.981	184	164791	86.146	ng	98
55) Dibenzofuran	10.116	168	902274	45.084	ng	99
56) 4-Nitrophenol	10.039	139	225615	79.398	ng	99
57) 2,4-Dinitrotoluene	10.104	165	213328	43.696	ng	98
58) Fluorene	10.463	166	696131	44.031	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	181348	46.369	ng	98
60) Diethylphthalate	10.328	149	743819	44.705	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	344434	44.128	ng	99
62) 4-Nitroaniline	10.486	138	161229	40.477	ng	100
63) Azobenzene	10.610	77	775322	47.161	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	116238	47.535	ng	93
66) n-Nitrosodiphenylamine	10.569	169	609341	46.401	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	206178	45.382	ng	98
68) Hexachlorobenzene	11.010	284	229563	44.909	ng	98
69) Atrazine	11.098	200	194458	48.945	ng	99
70) Pentachlorophenol	11.210	266	219134	79.583	ng	98
71) Phenanthrene	11.428	178	949707	44.482	ng	100
72) Anthracene	11.481	178	985110	47.079	ng	100
73) Carbazole	11.633	167	861731	41.708	ng	100
74) Di-n-butylphthalate	11.957	149	1083111	43.678	ng	100
75) Fluoranthene	12.616	202	956319	39.925	ng	99
77) Benzidine	12.739	184	83936	9.549	ng	100
78) Pyrene	12.845	202	954324	48.716	ng	100
80) Butylbenzylphthalate	13.457	149	369231	49.065	ng	96
81) Benzo(a)anthracene	14.045	228	693541	46.078	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	158694	33.171	ng	99
83) Chrysene	14.080	228	645670	47.015	ng	99
84) Bis(2-ethylhexyl)phtha...	14.022	149	483566	48.142	ng	100
85) Di-n-octyl phthalate	14.669	149	703473	49.727	ng	98
87) Indeno(1,2,3-cd)pyrene	17.080	276	798846	53.934	ng	100
88) Benzo(b)fluoranthene	15.127	252	636840	40.602	ng	100
89) Benzo(k)fluoranthene	15.163	252	565254	44.114	ng	99
90) Benzo(a)pyrene	15.504	252	589322	48.383	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	655135	53.510	ng	100
92) Benzo(g,h,i)perylene	17.539	276	622290	49.717	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

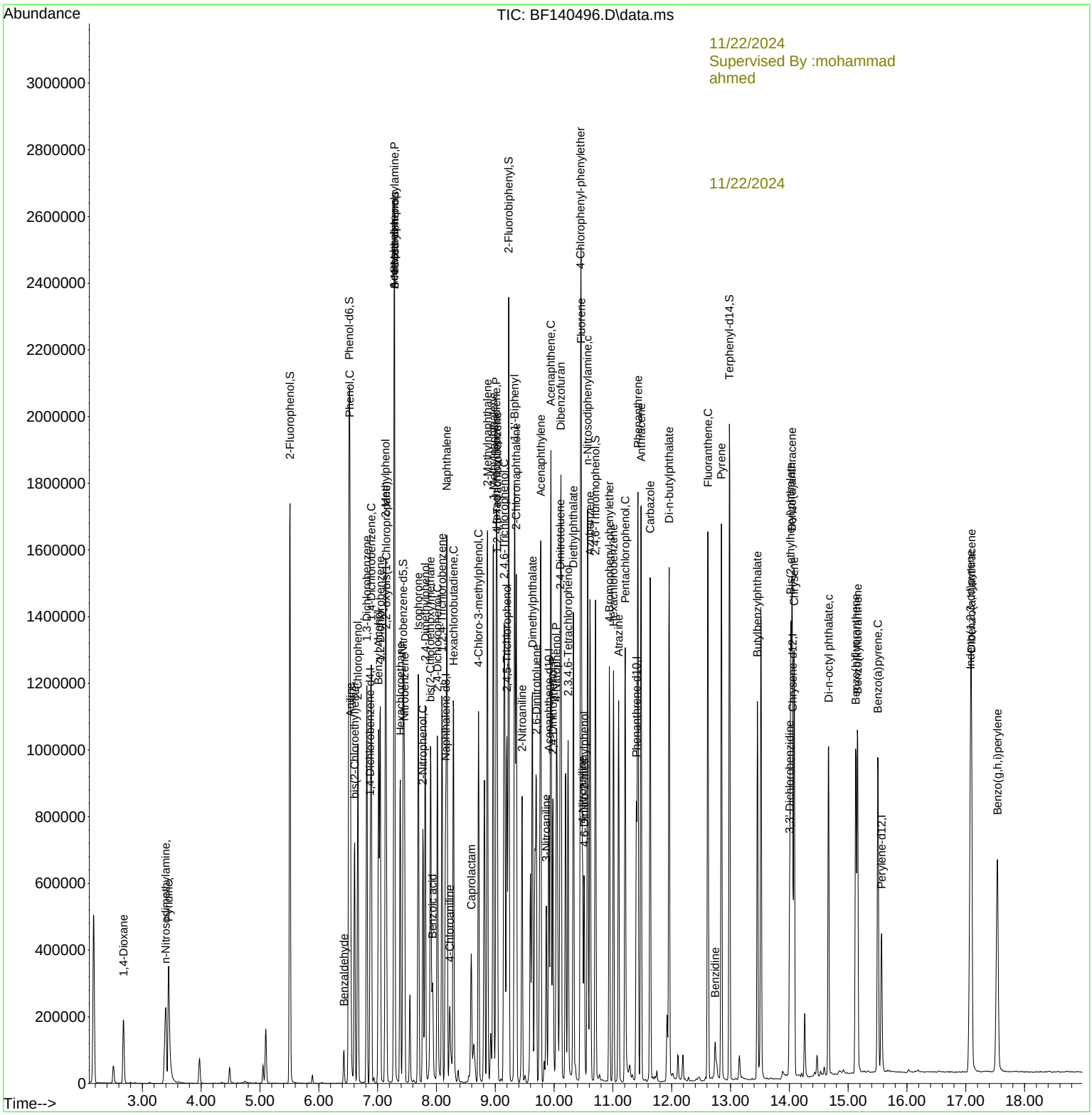
Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/22/2024
Supervised By :mohammad ahmed

11/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	115233	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	427479	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	231375	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	409075	20.000	ng		0.00
76) Chrysene-d12	14.045	240	206876	20.000	ng		0.00
86) Perylene-d12	15.539	264	225913	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	712357	105.549	ng		0.02
7) Phenol-d6	6.516	99	921403	100.767	ng		0.01
23) Nitrobenzene-d5	7.439	82	592509	72.217	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	258218	112.228	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1084808	75.370	ng		0.00
79) Terphenyl-d14	12.980	244	1020809	85.651	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	130097	43.250	ng		96
3) Pyridine	3.446	79	321443	43.467	ng		99
4) n-Nitrosodimethylamine	3.399	42	182270	48.768	ng		98
6) Aniline	6.540	93	371943	46.759	ng	#	60
8) 2-Chlorophenol	6.663	128	377267	52.038	ng		98
9) Benzaldehyde	6.428	77	30199	5.510	ng		97
10) Phenol	6.528	94	485275	50.324	ng		86
11) bis(2-Chloroethyl)ether	6.610	93	373257	51.086	ng		100
12) 1,3-Dichlorobenzene	6.816	146	394685	49.341	ng		100
13) 1,4-Dichlorobenzene	6.892	146	398448	49.125	ng		99
14) 1,2-Dichlorobenzene	7.045	146	378219	50.231	ng		100
15) Benzyl Alcohol	7.016	79	334977	50.847	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	488625	48.416	ng		70
17) 2-Methylphenol	7.134	107	292445	49.036	ng	#	93
18) Hexachloroethane	7.387	117	149187	49.754	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	262846	47.595	ng		100
20) 3+4-Methylphenols	7.287	107	359547	48.207	ng		93
22) Acetophenone	7.281	105	491432	49.428	ng		99
24) Nitrobenzene	7.457	77	411726	48.198	ng		99
25) Isophorone	7.692	82	734030	50.480	ng		100
26) 2-Nitrophenol	7.775	139	201445	53.142	ng		98
27) 2,4-Dimethylphenol	7.810	122	296159m	61.025	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	446049	50.027	ng		99
29) 2,4-Dichlorophenol	8.016	162	310556	51.778	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	327381	49.027	ng		99
31) Naphthalene	8.175	128	1067784	49.240	ng		100
32) Benzoic acid	7.939	122	193846	45.393	ng		96
33) 4-Chloroaniline	8.228	127	151029	20.026	ng		98
34) Hexachlorobutadiene	8.292	225	212771	50.010	ng		99
35) Caprolactam	8.598	113	98618m	49.470	ng		
36) 4-Chloro-3-methylphenol	8.716	107	334024	50.254	ng		99
37) 2-Methylnaphthalene	8.869	142	689081	49.557	ng		99
38) 1-Methylnaphthalene	8.969	142	648042	47.593	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	329073	51.431	ng		99
41) Hexachlorocyclopentadiene	9.016	237	332726	202.539	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	220697	52.560	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	230550	50.220	ng	97
46) 1,1'-Biphenyl	9.333	154	846207	50.272	ng	99
47) 2-Chloronaphthalene	9.357	162	638544	49.799	ng	99
48) 2-Nitroaniline	9.457	65	215455	50.667	ng	99
49) Acenaphthylene	9.775	152	1045592	53.896	ng	100
50) Dimethylphthalate	9.633	163	791800	52.502	ng	100
51) 2,6-Dinitrotoluene	9.698	165	169868	49.407	ng	98
52) Acenaphthene	9.945	154	747063m	57.014	ng	
53) 3-Nitroaniline	9.869	138	117324	32.493	ng	100
54) 2,4-Dinitrophenol	9.980	184	180348	101.720	ng	98
55) Dibenzofuran	10.116	168	959230	51.712	ng	100
56) 4-Nitrophenol	10.045	139	238994	90.745	ng	98
57) 2,4-Dinitrotoluene	10.104	165	227337	50.241	ng	99
58) Fluorene	10.463	166	738282	50.382	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	193061	53.260	ng	99
60) Diethylphthalate	10.328	149	794405	51.514	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	368215	50.898	ng	99
62) 4-Nitroaniline	10.486	138	172490	46.721	ng	99
63) Azobenzene	10.610	77	826525	54.244	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	123849	56.272	ng	96
66) n-Nitrosodiphenylamine	10.569	169	647087	54.747	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	222069	54.307	ng	98
68) Hexachlorobenzene	11.010	284	245229	53.300	ng	98
69) Atrazine	11.098	200	205079	57.349	ng	99
70) Pentachlorophenol	11.210	266	241085	97.276	ng	99
71) Phenanthrene	11.427	178	1008970	52.505	ng	100
72) Anthracene	11.480	178	1030542	54.719	ng	100
73) Carbazole	11.633	167	913948	49.147	ng	100
74) Di-n-butylphthalate	11.957	149	1161034	52.019	ng	100
75) Fluoranthene	12.616	202	1005608	46.644	ng	99
77) Benzidine	12.739	184	149604	18.842	ng	98
78) Pyrene	12.845	202	1002591	56.658	ng	100
80) Butylbenzylphthalate	13.457	149	380539	55.980	ng	96
81) Benzo(a)anthracene	14.033	228	751085	55.241	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	167008	38.645	ng	99
83) Chrysene	14.074	228	648530	52.277	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	496820	54.755	ng	99
85) Di-n-octyl phthalate	14.639	149	743761	58.202	ng	99
87) Indeno(1,2,3-cd)pyrene	17.051	276	870838	62.402	ng	99
88) Benzo(b)fluoranthene	15.104	252	742952	50.274	ng	99
89) Benzo(k)fluoranthene	15.133	252	566235	46.902	ng	98
90) Benzo(a)pyrene	15.480	252	642992	56.028	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	709908	61.542	ng	99
92) Benzo(g,h,i)perylene	17.509	276	671446	56.936	ng	99

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

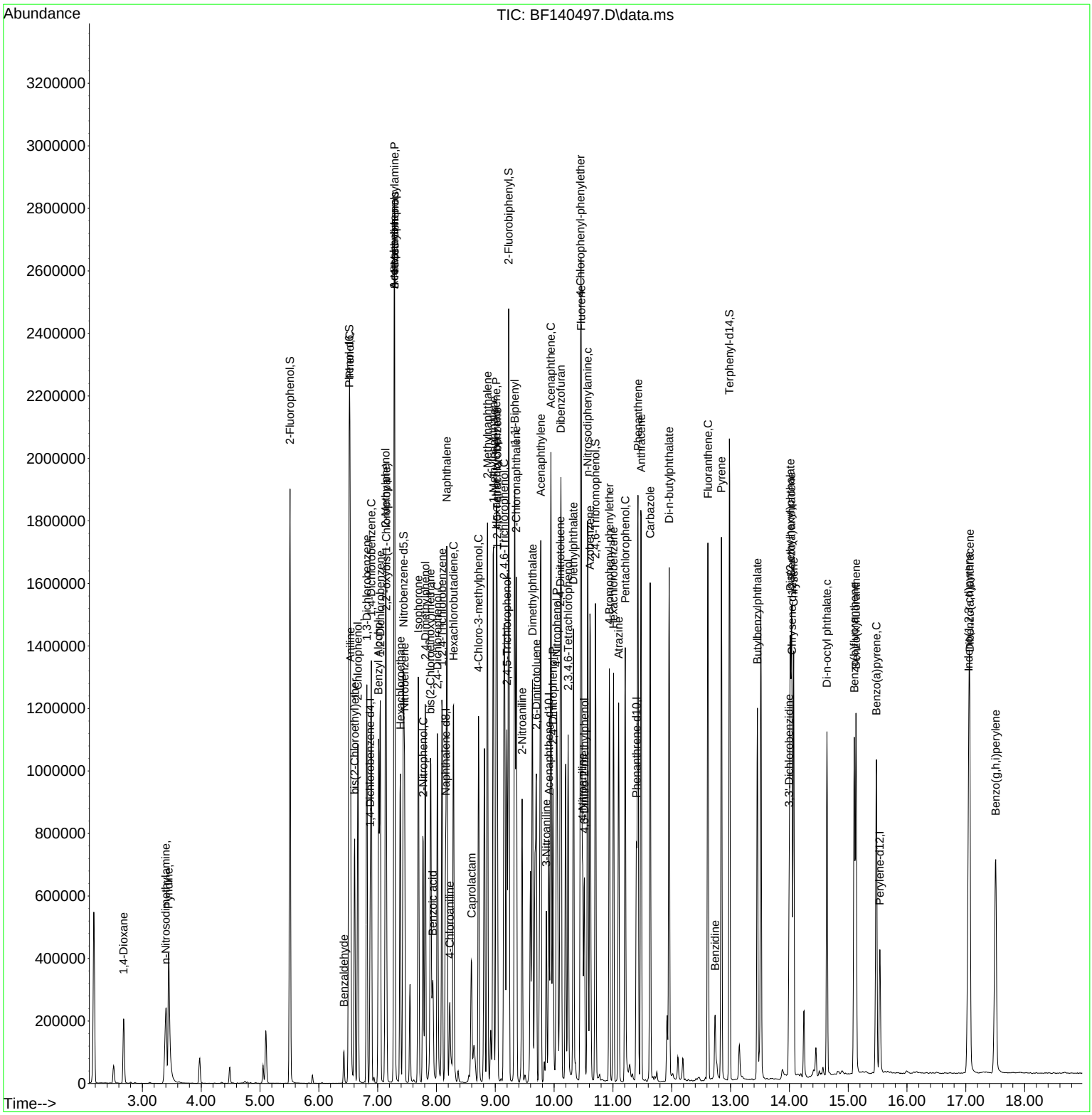
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



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

Manual Integration Report

Sequence:	BF111324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophenol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF112024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140488.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:49:58 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140488.D	Acenaphthene	yogesh	11/22/2024 3:49:58 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	Acenaphthene	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	Caprolactam	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	Acenaphthene	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	Caprolactam	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140499.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:27 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140501.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:29 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-01	BF140510.D	Benzo(b)fluoranthene	yogesh	11/22/2024 3:50:31 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-01	BF140510.D	Benzo(k)fluoranthene	yogesh	11/22/2024 3:50:31 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF112024	Instrument	BNA_f

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

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

Manual Integration Report

Sequence:	BF112124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140530.D	Benzoic acid	yogesh	11/22/2024 3:53:18 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf112524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140590.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:26:43 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165086BS	BF140594.D	Caprolactam	yogesh	11/27/2024 5:26:46 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165152BS	BF140598.D	Caprolactam	yogesh	11/27/2024 5:26:57 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165152BSD	BF140600.D	Caprolactam	yogesh	11/27/2024 5:26:58 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
SSTDCCC040	BF140604.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:03 AM	mohammad	11/27/2024 6:04:35 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 # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM				
SubDirectory	BF111324	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NS

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 # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM				
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM				
SubDirectory	BF112024	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140487.D	20 Nov 2024 09:04	RC/JU	Ok
2	SSTDCCC040	BF140488.D	20 Nov 2024 09:31	RC/JU	Ok,M
3	PB165039BL	BF140489.D	20 Nov 2024 09:57	RC/JU	Ok
4	PB165039BS	BF140490.D	20 Nov 2024 10:23	RC/JU	Ok,M
5	PB165039BSD	BF140491.D	20 Nov 2024 10:49	RC/JU	Ok,M
6	P4843-01	BF140492.D	20 Nov 2024 11:23	RC/JU	Ok,M
7	P4868-01	BF140493.D	20 Nov 2024 11:49	RC/JU	Ok
8	P4868-03	BF140494.D	20 Nov 2024 12:15	RC/JU	ReRun
9	P4892-02	BF140495.D	20 Nov 2024 12:42	RC/JU	Ok
10	P4892-02MS	BF140496.D	20 Nov 2024 13:08	RC/JU	Ok,M
11	P4892-02MSD	BF140497.D	20 Nov 2024 13:35	RC/JU	Ok,M
12	P4868-03RE	BF140498.D	20 Nov 2024 14:01	RC/JU	Confirms
13	SSTDCCC040	BF140499.D	20 Nov 2024 14:34	RC/JU	Ok,M
14	DFTPP	BF140500.D	20 Nov 2024 15:33	RC/JU	Ok
15	SSTDCCC040	BF140501.D	20 Nov 2024 15:59	RC/JU	Ok,M
16	PB165086BL	BF140502.D	20 Nov 2024 16:25	RC/JU	Ok
17	P4849-02	BF140503.D	20 Nov 2024 16:58	RC/JU	Ok
18	P4870-07	BF140504.D	20 Nov 2024 17:24	RC/JU	Ok
19	P4910-01	BF140505.D	20 Nov 2024 17:51	RC/JU	Ok
20	P4893-01	BF140506.D	20 Nov 2024 18:17	RC/JU	Ok
21	P4893-05	BF140507.D	20 Nov 2024 18:43	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM				
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM				
SubDirectory	BF112024	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4768-05	BF140508.D	20 Nov 2024 19:09	RC/JU	Ok
23	P4870-10	BF140509.D	20 Nov 2024 19:35	RC/JU	Ok
24	P4892-01	BF140510.D	20 Nov 2024 20:02	RC/JU	Ok,M
25	P4909-01	BF140511.D	20 Nov 2024 20:28	RC/JU	Ok,M
26	P4910-05	BF140512.D	20 Nov 2024 20:54	RC/JU	Ok,M
27	P4889-05DL	BF140513.D	20 Nov 2024 21:21	RC/JU	Ok,M
28	P4822-10	BF140514.D	20 Nov 2024 21:47	RC/JU	Ok,M
29	P4822-12	BF140515.D	20 Nov 2024 22:13	RC/JU	Ok,M
30	P4822-06	BF140516.D	20 Nov 2024 22:40	RC/JU	Ok,M
31	P4822-08	BF140517.D	20 Nov 2024 23:06	RC/JU	Ok,M
32	P4822-02	BF140518.D	20 Nov 2024 23:32	RC/JU	ReRun
33	P4822-04	BF140519.D	20 Nov 2024 23:58	RC/JU	ReRun
34	P4887-05	BF140520.D	21 Nov 2024 00:24	RC/JU	ReRun
35	P4860-02	BF140521.D	21 Nov 2024 00:51	RC/JU	ReRun
36	P4860-03	BF140522.D	21 Nov 2024 01:17	RC/JU	ReRun
37	P4860-07	BF140523.D	21 Nov 2024 01:43	RC/JU	ReRun
38	P4916-01	BF140524.D	21 Nov 2024 02:09	RC/JU	ReRun
39	P4916-05	BF140525.D	21 Nov 2024 02:35	RC/JU	ReRun

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 # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140526.D	21 Nov 2024 10:17	RC/JU	Ok
2	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	RC/JU	Not Ok
3	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13	RC/JU	Ok
4	SSTDICC005	BF140529.D	21 Nov 2024 11:39	RC/JU	Ok
5	SSTDICC010	BF140530.D	21 Nov 2024 12:05	RC/JU	Ok,M
6	SSTDICC020	BF140531.D	21 Nov 2024 12:32	RC/JU	Ok,M
7	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	RC/JU	Ok,M
8	SSTDICC050	BF140533.D	21 Nov 2024 13:25	RC/JU	Ok
9	SSTDICC060	BF140534.D	21 Nov 2024 13:51	RC/JU	Ok
10	SSTDICC080	BF140535.D	21 Nov 2024 14:18	RC/JU	Ok
11	SSTDICV040	BF140536.D	21 Nov 2024 15:07	RC/JU	Ok,M
12	PB165144BL	BF140537.D	21 Nov 2024 15:34	RC/JU	Ok
13	DFTPP	BF140538.D	21 Nov 2024 16:27	RC/JU	Ok
14	SSTDCCC040	BF140539.D	21 Nov 2024 16:54	RC/JU	Ok,M
15	PB165060TB	BF140540.D	21 Nov 2024 17:20	RC/JU	Ok
16	P4887-06	BF140541.D	21 Nov 2024 17:55	RC/JU	Ok
17	P4887-02	BF140542.D	21 Nov 2024 18:21	RC/JU	Ok
18	P4870-16	BF140543.D	21 Nov 2024 18:48	RC/JU	Ok
19	P4870-15	BF140544.D	21 Nov 2024 19:14	RC/JU	Ok
20	P4870-14	BF140545.D	21 Nov 2024 19:40	RC/JU	Ok
21	P4870-13	BF140546.D	21 Nov 2024 20:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4929-02	BF140547.D	21 Nov 2024 20:33	RC/JU	Ok
23	P4924-04	BF140548.D	21 Nov 2024 20:59	RC/JU	Ok
24	P4921-01	BF140549.D	21 Nov 2024 21:25	RC/JU	Ok
25	P4916-12	BF140550.D	21 Nov 2024 21:51	RC/JU	Ok
26	P4916-08	BF140551.D	21 Nov 2024 22:18	RC/JU	Ok
27	P4916-04	BF140552.D	21 Nov 2024 22:44	RC/JU	Ok
28	P4887-01	BF140553.D	21 Nov 2024 23:10	RC/JU	Ok
29	P4916-09	BF140554.D	21 Nov 2024 23:36	RC/JU	Ok
30	P4916-09MS	BF140555.D	22 Nov 2024 00:02	RC/JU	Ok,M
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,M
32	P4916-01	BF140557.D	22 Nov 2024 00:54	RC/JU	Ok
33	P4916-05RE	BF140558.D	22 Nov 2024 01:21	RC/JU	Confirms
34	P4887-05RE	BF140559.D	22 Nov 2024 01:47	RC/JU	Confirms
35	P4924-01	BF140560.D	22 Nov 2024 02:13	RC/JU	ReRun
36	P4936-01	BF140561.D	22 Nov 2024 02:39	RC/JU	Ok,M
37	P4929-01	BF140562.D	22 Nov 2024 03:06	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM				
SubDirectory	BF112524	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140589.D	25 Nov 2024 09:07	RC/JU	Ok
2	SSTDCCC040	BF140590.D	25 Nov 2024 09:33	RC/JU	Ok,M
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,M
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Ok,M
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,M
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,M
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,M
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,M
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,M
17	PB165052BL	BF140605.D	25 Nov 2024 16:17	RC/JU	Ok
18	P4947-01	BF140606.D	25 Nov 2024 16:49	RC/JU	Ok
19	P4892-04	BF140607.D	25 Nov 2024 17:15	RC/JU	Ok
20	P4860-09	BF140608.D	25 Nov 2024 17:41	RC/JU	Ok
21	P4860-01	BF140609.D	25 Nov 2024 18:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4960-01	BF140610.D	25 Nov 2024 18:34	RC/JU	Ok
23	P4960-05	BF140611.D	25 Nov 2024 19:00	RC/JU	Ok
24	P4892-03	BF140612.D	25 Nov 2024 19:26	RC/JU	Ok
25	P4892-03MS	BF140613.D	25 Nov 2024 19:52	RC/JU	Ok,M
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,M
27	P4860-06	BF140615.D	25 Nov 2024 20:45	RC/JU	Ok
28	P4860-09MS	BF140616.D	25 Nov 2024 21:11	RC/JU	Not Ok
29	P4860-09MSD	BF140617.D	25 Nov 2024 21:37	RC/JU	Not Ok
30	P4960-03	BF140618.D	25 Nov 2024 22:03	RC/JU	ReRun
31	P4860-10	BF140619.D	25 Nov 2024 22:29	RC/JU	ReRun
32	P4860-04	BF140620.D	25 Nov 2024 22:55	RC/JU	Ok
33	P4860-07	BF140621.D	25 Nov 2024 23:22	RC/JU	Ok
34	P4860-03	BF140622.D	25 Nov 2024 23:48	RC/JU	Ok
35	P4951-01	BF140623.D	26 Nov 2024 00:14	RC/JU	ReRun
36	P4954-01	BF140624.D	26 Nov 2024 00:40	RC/JU	Ok,M
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,M
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,M
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140487.D	20 Nov 2024 09:04		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140488.D	20 Nov 2024 09:31		RC/JU	Ok,M
3	PB165039BL	PB165039BL	BF140489.D	20 Nov 2024 09:57		RC/JU	Ok
4	PB165039BS	PB165039BS	BF140490.D	20 Nov 2024 10:23		RC/JU	Ok,M
5	PB165039BSD	PB165039BSD	BF140491.D	20 Nov 2024 10:49		RC/JU	Ok,M
6	P4843-01	SW-WTS-01	BF140492.D	20 Nov 2024 11:23		RC/JU	Ok,M
7	P4868-01	RW5-SP100-20241114	BF140493.D	20 Nov 2024 11:49		RC/JU	Ok
8	P4868-03	RW5-SP303-20241114	BF140494.D	20 Nov 2024 12:15	Internal Standard Fail	RC/JU	ReRun
9	P4892-02	WB-310-BOT	BF140495.D	20 Nov 2024 12:42		RC/JU	Ok
10	P4892-02MS	WB-310-BOTMS	BF140496.D	20 Nov 2024 13:08		RC/JU	Ok,M
11	P4892-02MSD	WB-310-BOTMSD	BF140497.D	20 Nov 2024 13:35		RC/JU	Ok,M
12	P4868-03RE	RW5-SP303-20241114I	BF140498.D	20 Nov 2024 14:01	Internal Standard Fail	RC/JU	Confirms
13	SSTDCCC040	SSTDCCC040EC	BF140499.D	20 Nov 2024 14:34		RC/JU	Ok,M
14	DFTPP	DFTPP	BF140500.D	20 Nov 2024 15:33		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140501.D	20 Nov 2024 15:59		RC/JU	Ok,M
16	PB165086BL	PB165086BL	BF140502.D	20 Nov 2024 16:25		RC/JU	Ok
17	P4849-02	RR-1	BF140503.D	20 Nov 2024 16:58		RC/JU	Ok
18	P4870-07	MH-736	BF140504.D	20 Nov 2024 17:24		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4910-01	MH-COTTAGE	BF140505.D	20 Nov 2024 17:51		RC/JU	Ok
20	P4893-01	MH-763	BF140506.D	20 Nov 2024 18:17		RC/JU	Ok
21	P4893-05	MH-762	BF140507.D	20 Nov 2024 18:43		RC/JU	Ok
22	P4768-05	B-5	BF140508.D	20 Nov 2024 19:09	Internal Standard Fail	RC/JU	Ok
23	P4870-10	TP-15	BF140509.D	20 Nov 2024 19:35		RC/JU	Ok
24	P4892-01	WB-310-TOP	BF140510.D	20 Nov 2024 20:02		RC/JU	Ok,M
25	P4909-01	BU-02-111824	BF140511.D	20 Nov 2024 20:28		RC/JU	Ok,M
26	P4910-05	MH-759	BF140512.D	20 Nov 2024 20:54	Internal Standard Fail	RC/JU	Ok,M
27	P4889-05DL	#72-11930DL	BF140513.D	20 Nov 2024 21:21	Internal Standard Fail	RC/JU	Ok,M
28	P4822-10	SOIL-5	BF140514.D	20 Nov 2024 21:47		RC/JU	Ok,M
29	P4822-12	SOIL-6	BF140515.D	20 Nov 2024 22:13		RC/JU	Ok,M
30	P4822-06	SOIL-3	BF140516.D	20 Nov 2024 22:40		RC/JU	Ok,M
31	P4822-08	SOIL-4	BF140517.D	20 Nov 2024 23:06		RC/JU	Ok,M
32	P4822-02	SOIL-1	BF140518.D	20 Nov 2024 23:32	Internal Standard Fail	RC/JU	ReRun
33	P4822-04	SOIL-2	BF140519.D	20 Nov 2024 23:58	Internal Standard Fail	RC/JU	ReRun
34	P4887-05	MH-760	BF140520.D	21 Nov 2024 00:24	Internal Standard Fail	RC/JU	ReRun
35	P4860-02	PH2-BOT-001	BF140521.D	21 Nov 2024 00:51	Internal Standard Fail	RC/JU	ReRun
36	P4860-03	PH2-BOT-002	BF140522.D	21 Nov 2024 01:17	Internal Standard Fail	RC/JU	ReRun
37	P4860-07	PH2-BOT-008	BF140523.D	21 Nov 2024 01:43	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4916-01	TP-1-WC	BF140524.D	21 Nov 2024 02:09	Internal Standard Fail	RC/JU	ReRun
39	P4916-05	TP-2-WC	BF140525.D	21 Nov 2024 02:35	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140526.D	21 Nov 2024 10:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF140529.D	21 Nov 2024 11:39	Compound#9,32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF140530.D	21 Nov 2024 12:05		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF140531.D	21 Nov 2024 12:32	Compound#32,41,54 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	Calibration failed for Benzidine	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BF140533.D	21 Nov 2024 13:25	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF140534.D	21 Nov 2024 13:51		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF140535.D	21 Nov 2024 14:18	Compound#9 removed from 80 ppm	RC/JU	Ok
11	SSTDICV040	ICVBF112124	BF140536.D	21 Nov 2024 15:07		RC/JU	Ok,M
12	PB165144BL	PB165144BL	BF140537.D	21 Nov 2024 15:34		RC/JU	Ok
13	DFTPP	DFTPP	BF140538.D	21 Nov 2024 16:27		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF140539.D	21 Nov 2024 16:54		RC/JU	Ok,M
15	PB165060TB	PB165060TB	BF140540.D	21 Nov 2024 17:20		RC/JU	Ok
16	P4887-06	MH-760	BF140541.D	21 Nov 2024 17:55		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4887-02	MH-739	BF140542.D	21 Nov 2024 18:21		RC/JU	Ok
18	P4870-16	TP-15	BF140543.D	21 Nov 2024 18:48		RC/JU	Ok
19	P4870-15	MH-736	BF140544.D	21 Nov 2024 19:14		RC/JU	Ok
20	P4870-14	MH-735	BF140545.D	21 Nov 2024 19:40		RC/JU	Ok
21	P4870-13	TP-1	BF140546.D	21 Nov 2024 20:07		RC/JU	Ok
22	P4929-02	ARS520	BF140547.D	21 Nov 2024 20:33		RC/JU	Ok
23	P4924-04	MH-4	BF140548.D	21 Nov 2024 20:59		RC/JU	Ok
24	P4921-01	WC-11-A-202411	BF140549.D	21 Nov 2024 21:25		RC/JU	Ok
25	P4916-12	TP-3-WC	BF140550.D	21 Nov 2024 21:51		RC/JU	Ok
26	P4916-08	TP-2-WC	BF140551.D	21 Nov 2024 22:18		RC/JU	Ok
27	P4916-04	TP-1-WC	BF140552.D	21 Nov 2024 22:44		RC/JU	Ok
28	P4887-01	MH-739	BF140553.D	21 Nov 2024 23:10		RC/JU	Ok
29	P4916-09	TP-3-WC	BF140554.D	21 Nov 2024 23:36		RC/JU	Ok
30	P4916-09MS	TP-3-WCMS	BF140555.D	22 Nov 2024 00:02		RC/JU	Ok,M
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,M
32	P4916-01	TP-1-WC	BF140557.D	22 Nov 2024 00:54		RC/JU	Ok
33	P4916-05RE	TP-2-WCRE	BF140558.D	22 Nov 2024 01:21	Internal Standard Fail	RC/JU	Confirms
34	P4887-05RE	MH-760RE	BF140559.D	22 Nov 2024 01:47	Internal Standard Fail	RC/JU	Confirms
35	P4924-01	MH-4	BF140560.D	22 Nov 2024 02:13	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P4936-01	PL-01-11202024	BF140561.D	22 Nov 2024 02:39	Internal Standard Fail	RC/JU	Ok,M
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	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 # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140589.D	25 Nov 2024 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140590.D	25 Nov 2024 09:33		RC/JU	Ok,M
3	PB165123TB	PB165123TB	BF140591.D	25 Nov 2024 09:59		RC/JU	Ok
4	PB165155BS	PB165155BS	BF140592.D	25 Nov 2024 10:25		RC/JU	Ok,M
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17		RC/JU	Ok,M
7	PB165111TB	PB165111TB	BF140595.D	25 Nov 2024 11:43		RC/JU	Ok
8	PB165052BS	PB165052BS	BF140596.D	25 Nov 2024 12:09		RC/JU	Ok,M
9	PB164986TB	PB164986TB	BF140597.D	25 Nov 2024 12:36		RC/JU	Ok
10	PB165152BS	PB165152BS	BF140598.D	25 Nov 2024 13:02		RC/JU	Ok,M
11	PB164886TB	PB164886TB	BF140599.D	25 Nov 2024 13:27		RC/JU	Ok
12	PB165152BSD	PB165152BSD	BF140600.D	25 Nov 2024 13:54		RC/JU	Ok,M
13	PB165152BL	PB165152BL	BF140601.D	25 Nov 2024 14:28		RC/JU	Ok
14	PB165185BS	PB165185BS	BF140602.D	25 Nov 2024 14:54		RC/JU	Ok,M
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49		RC/JU	Ok,M
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		RC/JU	Ok
18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4892-04	WB-310-SW	BF140607.D	25 Nov 2024 17:15		RC/JU	Ok
20	P4860-09	PH2-BOT-006	BF140608.D	25 Nov 2024 17:41		RC/JU	Ok
21	P4860-01	DUP-01	BF140609.D	25 Nov 2024 18:07		RC/JU	Ok
22	P4960-01	B1	BF140610.D	25 Nov 2024 18:34		RC/JU	Ok
23	P4960-05	SW3	BF140611.D	25 Nov 2024 19:00		RC/JU	Ok
24	P4892-03	WB-310-BOT	BF140612.D	25 Nov 2024 19:26		RC/JU	Ok
25	P4892-03MS	WB-310-BOTMS	BF140613.D	25 Nov 2024 19:52		RC/JU	Ok,M
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,M
27	P4860-06	PH2-BOT-009	BF140615.D	25 Nov 2024 20:45		RC/JU	Ok
28	P4860-09MS	PH2-BOT-006MS	BF140616.D	25 Nov 2024 21:11	MSD Not Ok	RC/JU	Not Ok
29	P4860-09MSD	PH2-BOT-006MSD	BF140617.D	25 Nov 2024 21:37	Internal Standard Fail	RC/JU	Not Ok
30	P4960-03	SW1	BF140618.D	25 Nov 2024 22:03	Internal Standard Fail	RC/JU	ReRun
31	P4860-10	PH2-BOT-005	BF140619.D	25 Nov 2024 22:29	Internal Standard Fail	RC/JU	ReRun
32	P4860-04	PH2-BOT-003	BF140620.D	25 Nov 2024 22:55		RC/JU	Ok
33	P4860-07	PH2-BOT-008	BF140621.D	25 Nov 2024 23:22		RC/JU	Ok
34	P4860-03	PH2-BOT-002	BF140622.D	25 Nov 2024 23:48		RC/JU	Ok
35	P4951-01	AU-05-112124	BF140623.D	26 Nov 2024 00:14	Internal Standard Fail	RC/JU	ReRun
36	P4954-01	TR-05-112124	BF140624.D	26 Nov 2024 00:40	Internal Standard Fail	RC/JU	Ok,M
37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,M
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165086

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/19/2024
Matrix :	Solid			**Extraction Start Time :**	09:00
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/19/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Methylene Chloride	N/A	E3829
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24	RP (Lab)	AC/SVOC
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165086

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/19/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165086BL	SBLK086	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U5-1
PB165086BS	SLCS086	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
P4892-01	WB-310-TOP	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
P4892-02	WB-310-BOT	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
P4892-02MS	WB-310-BOTMS	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
P4892-02MSD	WB-310-BOTMSD	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
P4893-01	MH-763	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		U1-1
P4893-05	MH-762	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	B		2
P4908-01	SP-1	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
P4908-03	SP-2	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		4
P4909-01	BU-02-111824	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	B		5
P4910-01	MH-COTTAGE	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		6
P4910-05	MH-759	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	B		U6-1

* **Extracts relinquished on the same date as received.**

11/19/24

165086
8:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4892 **WorkList ID :** 185552 **Department :** Extraction **Date :** 11-19-2024 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-01	WB-310-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E
P4892-02	WB-310-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E
P4893-01	MH-763	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/16/2024	8270E
P4893-05	MH-762	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/16/2024	8270E
P4908-01	SP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4908-03	SP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4909-01	BU-02-111824	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4910-01	MH-COTTAGE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L51	11/18/2024	8270E
P4910-05	MH-759	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L61	11/18/2024	8270E
					PSEG03	L61	11/18/2024	8270E

Date/Time 11/19/24 8:55
Raw Sample Received by: RJ (Sig. Lab)
Raw Sample Relinquished by: CR SM

Date/Time 11/19/24 9:25
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RJ (Sig. Lab)

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EXTRACTION LOGPAGE

PB165152

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/20/2024

Extraction Start Time : 08:29

Extraction End Date : 11/20/2024

Extraction End Time : 13:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6681
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	E3829
Baked Na2SO4	N/A	EP2562
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. p H Adjusted<2 with 1:1 H2SO4 &>11 with 10N NaOH. P4892-04 Limited volume recd.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RJ (Ext Lab)	AC/SVOC
13:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165152

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165152BL	SBLK152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB165152BS	SLCS152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB165152BSD	SLCSD152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4892-04	WB-310-SW	SVOC-TCL BNA -20	485	6	RUPESH	rajesh	0.5	E		4

* **Extracts relinquished on the same date as received.**

11/20/24

105152
8:29 RM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4892S **WorkList ID :** 185628 **Department :** Extraction **Date :** 11-20-2024 08:15:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-04	WB-310-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	M11	11/15/2024	NJEPH
P4892-04	WB-310-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E

Date/Time 11/20/24 8:25
Raw Sample Received by: RS (Stolt Logs)
Raw Sample Relinquished by: JDCSM

Date/Time 11/20/24 8:45
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RS (Stolt Logs)

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LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/20/24	11/25/24	

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Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140612.D	1	11/20/24 11:30	11/25/24 19:26	PB165144

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	134		15 (10) - 110 (139)	89%	SPK: 150
13127-88-3	Phenol-d6	120		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.7		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.8		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	93.3		30 (48) - 130 (125)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	64200	6.869			
1146-65-2	Naphthalene-d8	241000	8.151			
15067-26-2	Acenaphthene-d10	131000	9.904			
1517-22-2	Phenanthrene-d10	245000	11.392			
1719-03-5	Chrysene-d12	173000	14.045			
1520-96-3	Perylene-d12	147000	15.539			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140612.D	1	11/20/24 11:30	11/25/24 19:26	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PB165060TB	SDG No.:	P4892
Lab Sample ID:	PB165060TB	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140540.D	1	11/20/24 11:30	11/21/24 17:20	PB165144

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	138		15 (10) - 110 (139)	92%	SPK: 150
13127-88-3	Phenol-d6	135		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.0		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	99.4		30 (48) - 130 (125)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	89800	6.869			
1146-65-2	Naphthalene-d8	337000	8.151			
15067-26-2	Acenaphthene-d10	192000	9.91			
1517-22-2	Phenanthrene-d10	363000	11.398			
1719-03-5	Chrysene-d12	206000	14.045			
1520-96-3	Perylene-d12	164000	15.539			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PB165060TB	SDG No.:	P4892
Lab Sample ID:	PB165060TB	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140540.D	1	11/20/24 11:30	11/21/24 17:20	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-03	WB-310-BOT	2-Fluorophenol	150	134	89		15 (10)	110 (139)
		Phenol-d6	150	120	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.7	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.8	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	149	100		15 (44)	110 (137)
		Terphenyl-d14	100	93.3	93		30 (48)	130 (125)
P4892-03MS	WB-310-BOTMS	2-Fluorophenol	150	132	88		15 (10)	110 (139)
		Phenol-d6	150	120	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	99.5	100		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.8	97		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	104	104		30 (48)	130 (125)
P4892-03MSD	WB-310-BOTMSD	2-Fluorophenol	150	122	81		15 (10)	110 (139)
		Phenol-d6	150	111	74		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.2	90		30 (49)	130 (133)
		2-Fluorobiphenyl	100	89.0	89		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	144	96		15 (44)	110 (137)
		Terphenyl-d14	100	98.2	98		30 (48)	130 (125)
PB165060TB	PB165060TB	2-Fluorophenol	150	138	92		15 (10)	110 (139)
		Phenol-d6	150	135	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.0	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.0	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	86		15 (44)	110 (137)
		Terphenyl-d14	100	99.4	99		30 (48)	130 (125)
PB165144BL	PB165144BL	2-Fluorophenol	150	139	93		15 (10)	110 (139)
		Phenol-d6	150	135	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.9	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.1	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	98.5	98		30 (48)	130 (125)
PB165144BS	PB165144BS	2-Fluorophenol	150	137	92		15 (10)	110 (139)
		Phenol-d6	150	135	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.9	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	91.7	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	140	93		15 (44)	110 (137)
		Terphenyl-d14	100	91.8	92		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-03MS		**Client Sample ID: WB-310-BOTMS**						**DataFile: BF140613.D**			
Pyridine	500	0	400	ug/L	80				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	320	ug/L	64	*			70 (55)	130 (125)	
2-Methylphenol	500	0	470	ug/L	94				70 (37)	130 (126)	
3+4-Methylphenols	500	0	470	ug/L	94				20 (31)	160 (127)	
Hexachloroethane	500	0	300	ug/L	60				20 (49)	160 (110)	
Nitrobenzene	500	0	440	ug/L	88				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	380	ug/L	76				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	520	ug/L	104				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	520	ug/L	104				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	540	ug/L	108				70 (50)	130 (142)	
Hexachlorobenzene	500	0	510	ug/L	102				70 (72)	130 (115)	
Pentachlorophenol	1000	0	1200	ug/L	120				20 (25)	160 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-03MSD		**Client Sample ID: WB-310-BOTMSD**						**DataFile: BF140614.D**			
Pyridine	500	0	370	ug/L	74		8		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	290	ug/L	58	*	10		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	430	ug/L	86		9		70 (37)	130 (126)	20 (20)
3+4-Methylphenols	500	0	440	ug/L	88		7		20 (31)	160 (127)	20 (20)
Hexachloroethane	500	0	280	ug/L	56		7		20 (49)	160 (110)	20 (20)
Nitrobenzene	500	0	400	ug/L	80		10		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	350	ug/L	70		8		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	480	ug/L	96		8		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	480	ug/L	96		8		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	500	ug/L	100		8		70 (50)	130 (142)	20 (20)
Hexachlorobenzene	500	0	460	ug/L	92		10		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	1100	ug/L	110		9		20 (25)	160 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140659.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165144BS	Pyridine	50	49.6	ug/L	99				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	46.6	ug/L	93				70 (76)	130 (103)	
	2-Methylphenol	50	49.8	ug/L	100				70 (69)	130 (109)	
	3+4-Methylphenols	50	49.2	ug/L	98				20 (67)	160 (106)	
	Hexachloroethane	50	46.8	ug/L	94				20 (76)	160 (118)	
	Nitrobenzene	50	45.8	ug/L	92				70 (58)	130 (106)	
	Hexachlorobutadiene	50	46.0	ug/L	92				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	48.2	ug/L	96				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	46.6	ug/L	93				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	49.1	ug/L	98				70 (60)	130 (115)	
	Hexachlorobenzene	50	47.1	ug/L	94				70 (73)	130 (106)	
	Pentachlorophenol	100	97.1	ug/L	97				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165144BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140537.D Lab Sample ID: PB165144BL

Instrument ID: BNA_F Date Extracted: 11/20/2024

Matrix: (soil/water) water Date Analyzed: 11/21/2024

Level: (low/med) LOW Time Analyzed: 15:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WB-310-BOT	P4892-03	BF140612.D	11/25/2024
WB-310-BOTMS	P4892-03MS	BF140613.D	11/25/2024
WB-310-BOTMSD	P4892-03MSD	BF140614.D	11/25/2024
PB165144BS	PB165144BS	BF140659.D	11/27/2024
PB165060TB	PB165060TB	BF140540.D	11/21/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140526.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
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	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	99.8
443	15.0 - 24.0% of mass 442	18.1 (18.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18
PB165144BL	PB165144BL	BF140537.D	11/21/2024	15:34

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140538.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.7
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (18.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140539.D	11/21/2024	16:54
PB165060TB	PB165060TB	BF140540.D	11/21/2024	17:20

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140603.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.9
275	10.0 - 60.0% of mass 198	28
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	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140604.D	11/25/2024	15:49
WB-310-BOT	P4892-03	BF140612.D	11/25/2024	19:26
WB-310-BOTMS	P4892-03MS	BF140613.D	11/25/2024	19:52
WB-310-BOTMSD	P4892-03MSD	BF140614.D	11/25/2024	20:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140654.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	29
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	96.2
443	15.0 - 24.0% of mass 442	17.7 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140655.D	11/27/2024	08:47
PB165144BS	PB165144BS	BF140659.D	11/27/2024	10:30

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140532.D Time Analyzed: 12:58

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	107516	6.875	413408	8.16	234407	9.92
	UPPER LIMIT	215032	7.375	826816	8.657	468814	10.416
	LOWER LIMIT	53758	6.375	206704	7.657	117204	9.416
	EPA SAMPLE NO.						
01	PB165144BL	89214	6.87	332852	8.15	187896	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140532.D Time Analyzed: 12:58

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	437466	11.404	239343	14.051	211422	15.539
	UPPER LIMIT	874932	11.904	478686	14.551	422844	16.039
	LOWER LIMIT	218733	10.904	119672	13.551	105711	15.039
	EPA SAMPLE NO.						
01	PB165144BL	359986	11.40	208110	14.05	161923	15.54

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140539.D Time Analyzed: 16:54

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	106707	6.875	411509	8.16	234805	9.91
	UPPER LIMIT	213414	7.375	823018	8.657	469610	10.41
	LOWER LIMIT	53353.5	6.375	205755	7.657	117403	9.41
	EPA SAMPLE NO.						
01	PB165060TB	89751	6.87	336762	8.15	191525	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140539.D Time Analyzed: 16:54

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	433198	11.404	229401	14.051	204401	15.539
	UPPER LIMIT	866396	11.904	458802	14.551	408802	16.039
	LOWER LIMIT	216599	10.904	114701	13.551	102201	15.039
	EPA SAMPLE NO.						
01	PB165060TB	362676	11.40	205517	14.05	163891	15.54

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	106607	6.869	393427	8.15	218835	9.91
	UPPER LIMIT	213214	7.369	786854	8.651	437670	10.41
	LOWER LIMIT	53303.5	6.369	196714	7.651	109418	9.41
	EPA SAMPLE NO.						
01	WB-310-BOT	64242	6.87	241000	8.15	131433	9.90
02	WB-310-BOTMS	62131	6.87	221607	8.15	122175	9.91
03	WB-310-BOTMSD	68388	6.87	250576	8.15	136071	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	396344	11.398	217927	14.051	192376	15.551
	UPPER LIMIT	792688	11.898	435854	14.551	384752	16.051
	LOWER LIMIT	198172	10.898	108964	13.551	96188	15.051
	EPA SAMPLE NO.						
01	WB-310-BOT	245421	11.39	173047	14.05	147144	15.54
02	WB-310-BOTMS	233749	11.40	142609	14.05	139916	15.54
03	WB-310-BOTMSD	265977	11.40	158457	14.05	154128	15.55

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/27/2024

Lab File ID: BF140655.D Time Analyzed: 08:47

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	98372	6.869	362566	8.15	198240	9.91
	UPPER LIMIT	196744	7.369	725132	8.651	396480	10.41
	LOWER LIMIT	49186	6.369	181283	7.651	99120	9.41
	EPA SAMPLE NO.						
01	PB165144BS	82046	6.87	308441	8.15	177190	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/27/2024

Lab File ID: BF140655.D Time Analyzed: 08:47

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	372253	11.398	233810	14.051	185431	15.545
	UPPER LIMIT	744506	11.898	467620	14.551	370862	16.045
	LOWER LIMIT	186127	10.898	116905	13.551	92715.5	15.045
	EPA SAMPLE NO.						
01	PB165144BS	338038	11.40	213188	14.05	167110	15.55

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

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165144BL	SDG No.:	P4892
Lab Sample ID:	PB165144BL	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
BF140537.D	1	11/20/24 11:30	11/21/24 15:34	PB165144

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	139		15 (10) - 110 (139)	93%	SPK: 150
13127-88-3	Phenol-d6	135		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.9		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.1		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	98.5		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	89200	6.869			
1146-65-2	Naphthalene-d8	333000	8.151			
15067-26-2	Acenaphthene-d10	188000	9.91			
1517-22-2	Phenanthrene-d10	360000	11.398			
1719-03-5	Chrysene-d12	208000	14.045			
1520-96-3	Perylene-d12	162000	15.539			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB165144BL			SDG No.:	P4892
Lab Sample ID:	PB165144BL			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
BF140537.D	1	11/20/24 11:30	11/21/24 15:34	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165144BS	SDG No.:	P4892
Lab Sample ID:	PB165144BS	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
BF140659.D	1	11/20/24 11:30	11/27/24 10:30	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	49.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.6		0.84	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.2		1.20	10.0	ug/L
67-72-1	Hexachloroethane	46.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.0		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	48.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.6		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.1		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	47.1		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	97.1	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	137		15 (10) - 110 (139)	92%	SPK: 150
13127-88-3	Phenol-d6	135		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.9		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		15 (44) - 110 (137)	93%	SPK: 150
1718-51-0	Terphenyl-d14	91.8		30 (48) - 130 (125)	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82000	6.869			
1146-65-2	Naphthalene-d8	308000	8.151			
15067-26-2	Acenaphthene-d10	177000	9.91			
1517-22-2	Phenanthrene-d10	338000	11.398			
1719-03-5	Chrysene-d12	213000	14.051			
1520-96-3	Perylene-d12	167000	15.545			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB165144BS			SDG No.:	P4892
Lab Sample ID:	PB165144BS			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
BF140659.D	1	11/20/24 11:30	11/27/24 10:30	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-03MS	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
BF140613.D	1	11/20/24 11:30	11/25/24 19:52	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	400		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	320		8.40	50.0	ug/L
95-48-7	2-Methylphenol	470		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	470		11.5	100	ug/L
67-72-1	Hexachloroethane	300		10.1	50.0	ug/L
98-95-3	Nitrobenzene	440		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	380		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	520		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	520		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	540		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	510		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1200	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (10) - 110 (139)	88%	SPK: 150
13127-88-3	Phenol-d6	120		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.5		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.8		30 (52) - 130 (132)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (48) - 130 (125)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62100	6.869			
1146-65-2	Naphthalene-d8	222000	8.151			
15067-26-2	Acenaphthene-d10	122000	9.91			
1517-22-2	Phenanthrene-d10	234000	11.398			
1719-03-5	Chrysene-d12	143000	14.045			
1520-96-3	Perylene-d12	140000	15.539			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS			SDG No.:	P4892
Lab Sample ID:	P4892-03MS			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
BF140613.D	1	11/20/24 11:30	11/25/24 19:52	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-03MSD	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
BF140614.D	1	11/20/24 11:30	11/25/24 20:18	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	370		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	290		8.40	50.0	ug/L
95-48-7	2-Methylphenol	430		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	440		11.5	100	ug/L
67-72-1	Hexachloroethane	280		10.1	50.0	ug/L
98-95-3	Nitrobenzene	400		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	350		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	480		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	480		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	500		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	460		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		15 (10) - 110 (139)	81%	SPK: 150
13127-88-3	Phenol-d6	111		15 (10) - 110 (134)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		30 (49) - 130 (133)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.0		30 (52) - 130 (132)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		15 (44) - 110 (137)	96%	SPK: 150
1718-51-0	Terphenyl-d14	98.2		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68400	6.869			
1146-65-2	Naphthalene-d8	251000	8.151			
15067-26-2	Acenaphthene-d10	136000	9.91			
1517-22-2	Phenanthrene-d10	266000	11.398			
1719-03-5	Chrysene-d12	158000	14.045			
1520-96-3	Perylene-d12	154000	15.545			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-03MSD	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
BF140614.D	1	11/20/24 11:30	11/25/24 20:18	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF1405
35.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.454	0.477	0.493	8.46
3)		Pyridine		0.981	1.019	1.121	1.192	1.062	1.087	1.128	1.084	6.54
4)		n-Nitrosodimet...		0.616	0.611	0.661	0.648	0.632	0.632	0.660	0.637	3.15
5)	S	2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.127	1.091	1.172	5.40
6)		Aniline		1.159	1.195	1.133	1.251	1.042	1.020	0.835	1.091	12.73
7)	S	Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.470	1.407	1.550	7.14
8)		2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.208	1.145	1.261	6.51
9)		Benzaldehyde			1.007	0.970	0.738	0.752	0.635		0.820	19.55
10)	C	Phenol		1.723	1.648	1.620	1.667	1.514	1.490	1.417	1.583	6.98
11)		bis(2-Chloroet...		1.292	1.242	1.214	1.246	1.146	1.200	1.138	1.211	4.56
12)		1,3-Dichlorobe...		1.600	1.493	1.433	1.399	1.345	1.361	1.288	1.417	7.31
13)	C	1,4-Dichlorobe...		1.613	1.501	1.456	1.428	1.358	1.372	1.314	1.435	7.04
14)		1,2-Dichlorobe...		1.503	1.434	1.375	1.355	1.268	1.266	1.210	1.344	7.71
15)		Benzyl Alcohol		1.234	1.174	1.161	1.224	1.113	1.090	1.048	1.149	5.98
16)		2,2'-oxybis(1-...		1.650	1.480	1.434	1.463	1.335	1.377	1.276	1.431	8.43
17)		2-Methylphenol		1.121	1.034	1.033	1.042	0.956	0.959	0.922	1.009	6.74
18)		Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.510	0.499	0.536	6.17
19)	P	n-Nitroso-di-n...	0.972	1.002	0.949	0.916	0.946	0.856	0.857	0.829	0.916	6.82
20)		3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.209	1.154	1.298	8.98
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.536	0.511	0.494	0.481	0.463	0.460	0.468	0.488	5.75
23)	S	Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.377	0.383	0.391	3.21
24)		Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.391	0.392	0.404	4.35
25)		Isophorone		0.694	0.654	0.657	0.662	0.629	0.634	0.635	0.652	3.44
26)	C	2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.180	0.180	0.179	2.17
27)		2,4-Dimethylph...		0.221	0.214	0.213	0.224	0.204	0.207	0.218	0.214	3.40
28)		bis(2-Chloroet...		0.428	0.408	0.403	0.397	0.378	0.384	0.383	0.397	4.37
29)	C	2,4-Dichloroph...		0.301	0.291	0.290	0.282	0.277	0.274	0.271	0.284	3.82
30)		1,2,4-Trichlor...		0.342	0.338	0.332	0.317	0.317	0.312	0.312	0.324	3.91
31)		Naphthalene		1.116	1.075	1.062	1.013	0.993	0.983	0.970	1.030	5.32
32)		Benzoic acid			0.101	0.126	0.177	0.185	0.192	0.202	0.164	24.72
33)		4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	0.289	0.308	3.71
34)	C	Hexachlorobuta...		0.227	0.225	0.219	0.212	0.209	0.207	0.204	0.215	4.15
35)		Caprolactam		0.091	0.091	0.091	0.090	0.085	0.085	0.083	0.088	3.99
36)	C	4-Chloro-3-met...		0.348	0.318	0.317	0.327	0.307	0.307	0.301	0.318	4.95
37)		2-Methylnaphth...		0.724	0.680	0.669	0.650	0.623	0.620	0.615	0.654	6.09
38)		1-Methylnaphth...		0.707	0.665	0.659	0.638	0.611	0.608	0.601	0.641	5.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

8

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.635	0.604	0.606	0.563	0.561	0.565	0.565	0.586	5.02
41)	P	Hexachlorocycl...		0.055	0.090	0.114	0.121	0.129	0.133	0.107	27.80
42)	S	2,4,6-Tribromo...	0.222	0.209	0.220	0.216	0.210	0.210	0.211	0.214	2.52
43)	C	2,4,6-Trichlor...	0.384	0.358	0.375	0.366	0.364	0.360	0.365	0.367	2.45
44)		2,4,5-Trichlor...	0.402	0.396	0.410	0.404	0.390	0.397	0.392	0.399	1.80
45)	S	2-Fluorobiphenyl	1.550	1.402	1.423	1.291	1.255	1.240	1.235	1.342	8.90
46)		1,1'-Biphenyl	1.666	1.530	1.563	1.447	1.427	1.418	1.403	1.493	6.50
47)		2-Chloronaphth...	1.251	1.145	1.162	1.106	1.082	1.084	1.091	1.131	5.39
48)		2-Nitroaniline	0.367	0.351	0.379	0.367	0.363	0.357	0.359	0.363	2.50
49)		Acenaphthylene	1.890	1.765	1.808	1.662	1.628	1.623	1.590	1.710	6.58
50)		Dimethylphthalate	1.455	1.329	1.346	1.299	1.267	1.270	1.254	1.317	5.28
51)		2,6-Dinitrotol...	0.314	0.299	0.307	0.301	0.291	0.293	0.286	0.299	3.24
52)	C	Acenaphthene	1.182	1.110	1.134	1.063	1.052	1.037	1.026	1.086	5.29
53)		3-Nitroaniline	0.307	0.297	0.309	0.300	0.289	0.281	0.262	0.292	5.71
54)	P	2,4-Dinitrophenol		0.057	0.089	0.140	0.145	0.150	0.154	0.122	32.70
55)		Dibenzofuran	1.898	1.739	1.739	1.622	1.559	1.531	1.509	1.657	8.53
56)	P	4-Nitrophenol		0.160	0.195	0.207	0.212	0.214	0.208	0.199	10.31
57)		2,4-Dinitrotol...	0.403	0.403	0.416	0.404	0.386	0.389	0.379	0.397	3.24
58)		Fluorene	1.509	1.409	1.399	1.295	1.263	1.224	1.210	1.330	8.37
59)		2,3,4,6-Tetrac...	0.307	0.296	0.308	0.312	0.305	0.305	0.312	0.306	1.72
60)		Diethylphthalate	1.495	1.375	1.393	1.311	1.292	1.268	1.234	1.338	6.66
61)		4-Chlorophenyl...	0.739	0.682	0.685	0.639	0.619	0.605	0.599	0.653	7.90
62)		4-Nitroaniline	0.307	0.301	0.315	0.312	0.310	0.309	0.291	0.306	2.67
63)		Azobenzene	1.406	1.320	1.320	1.235	1.205	1.206	1.179	1.267	6.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.073	0.090	0.110	0.110	0.117	0.113	0.102	16.74
66)	c	n-Nitrosodiphe...	0.632	0.618	0.597	0.578	0.577	0.580	0.558	0.591	4.39
67)		4-Bromophenyl-...	0.218	0.215	0.206	0.200	0.200	0.205	0.198	0.206	3.79
68)		Hexachlorobenzene	0.257	0.240	0.239	0.233	0.232	0.236	0.232	0.238	3.65
69)		Atrazine	0.181	0.171	0.131	0.140	0.147	0.196	0.198	0.166	16.37
70)	C	Pentachlorophenol		0.071	0.090	0.116	0.115	0.121	0.118	0.105	19.24
71)		Phenanthrene	1.074	1.020	0.970	0.944	0.925	0.916	0.881	0.961	6.87
72)		Anthracene	1.038	0.994	0.958	0.925	0.905	0.904	0.859	0.940	6.47
73)		Carbazole	1.004	0.949	0.930	0.889	0.876	0.862	0.821	0.905	6.75
74)		Di-n-butylphth...	1.144	1.075	1.074	1.023	1.021	1.007	0.967	1.044	5.56
75)	C	Fluoranthene	1.186	1.111	1.114	1.014	0.999	0.962	0.921	1.044	9.11
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.268	0.422	0.296	0.575	0.734	1.025	0.751	0.581	47.31
78)		Pyrene	1.905	1.801	1.897	1.853	1.791	1.898	1.799	1.849	2.79
79)	S	Terphenyl-d14	1.351	1.254	1.308	1.283	1.228	1.313	1.254	1.284	3.31
80)		Butylbenzylpht...	0.676	0.644	0.694	0.679	0.655	0.674	0.641	0.666	2.96
81)		Benzo(a)anthra...	1.409	1.319	1.379	1.286	1.295	1.338	1.242	1.324	4.30
82)		3,3'-Dichlorob...	0.375	0.383	0.393	0.413	0.406	0.419	0.394	0.397	4.03
83)		Chrysene	1.354	1.263	1.218	1.201	1.137	1.173	1.128	1.211	6.50
84)		Bis(2-ethylhex...	0.904	0.828	0.862	0.833	0.824	0.841	0.797	0.841	4.00
85)	c	Di-n-octyl pht...	1.198	1.133	1.147	1.132	1.147	1.169	1.121	1.150	2.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.283	1.299	1.304	1.306	1.409	1.313	1.303	4.51
88)		Benzo(b)fluora...	1.347	1.256	1.380	1.186	1.248	1.207	1.168	1.256	6.41
89)		Benzo(k)fluora...	1.243	1.236	1.059	1.101	1.022	1.055	0.980	1.099	9.34
90)	C	Benzo(a)pyrene	1.062	1.050	1.063	1.007	0.998	1.014	0.957	1.021	3.81
91)		Dibenzo(a,h)an...	1.015	1.038	1.063	1.068	1.075	1.149	1.064	1.067	3.90
92)		Benzo(g,h,i)pe...	1.033	1.090	1.078	1.085	1.094	1.161	1.083	1.089	3.48

(#) = 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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/21/2024 16:54

Lab File ID: BF140539.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.084	1.199		10.6	
2-Fluorophenol	1.172	1.157		-1.3	
Phenol-d6	1.550	1.556		0.4	
1,4-Dichlorobenzene	1.435	1.386		-3.4	20.0
2-Methylphenol	1.010	1.024		1.4	
3+4-Methylphenols	1.298	1.347		3.8	
Nitrobenzene-d5	0.391	0.387		-1.0	
Hexachloroethane	0.536	0.531		-0.9	
Nitrobenzene	0.404	0.400		-1.0	
Hexachlorobutadiene	0.215	0.213		-0.9	20.0
2,4,6-Trichlorophenol	0.367	0.364		-0.8	20.0
2-Fluorobiphenyl	1.342	1.301		-3.1	
2,4,5-Trichlorophenol	0.399	0.404		1.3	
2,4-Dinitrotoluene	0.397	0.397		0.0	
2,4,6-Tribromophenol	0.214	0.210		-1.9	
Hexachlorobenzene	0.238	0.236		-0.8	
Pentachlorophenol	0.105	0.110		4.8	20.0
Terphenyl-d14	1.284	1.308		1.9	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.084	1.248		15.1	
2-Fluorophenol	1.172	1.153		-1.6	
Phenol-d6	1.550	1.521		-1.9	
1,4-Dichlorobenzene	1.435	1.401		-2.4	20.0
2-Methylphenol	1.010	1.019		0.9	
3+4-Methylphenols	1.298	1.259		-3.0	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.521		-2.8	
Nitrobenzene	0.404	0.392		-3.0	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
2,4,6-Trichlorophenol	0.367	0.358		-2.5	20.0
2-Fluorobiphenyl	1.342	1.282		-4.5	
2,4,5-Trichlorophenol	0.399	0.395		-1.0	
2,4-Dinitrotoluene	0.397	0.389		-2.0	
2,4,6-Tribromophenol	0.214	0.206		-3.7	
Hexachlorobenzene	0.238	0.236		-0.8	
Pentachlorophenol	0.105	0.106		1.0	20.0
Terphenyl-d14	1.284	1.258		-2.0	

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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/27/2024 08:47

Lab File ID: BF140655.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.084	1.166		7.6	
2-Fluorophenol	1.172	1.138		-2.9	
Phenol-d6	1.550	1.502		-3.1	
1,4-Dichlorobenzene	1.435	1.411		-1.7	20.0
2-Methylphenol	1.010	0.990		-2.0	
3+4-Methylphenols	1.298	1.258		-3.1	
Nitrobenzene-d5	0.391	0.379		-3.1	
Hexachloroethane	0.536	0.525		-2.1	
Nitrobenzene	0.404	0.388		-4.0	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
2,4,6-Trichlorophenol	0.367	0.354		-3.5	20.0
2-Fluorobiphenyl	1.342	1.300		-3.1	
2,4,5-Trichlorophenol	0.399	0.396		-0.8	
2,4-Dinitrotoluene	0.397	0.398		0.3	
2,4,6-Tribromophenol	0.214	0.207		-3.3	
Hexachlorobenzene	0.238	0.234		-1.7	
Pentachlorophenol	0.105	0.102		-2.9	20.0
Terphenyl-d14	1.284	1.162		-9.5	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140612.D
Acq On : 25 Nov 2024 19:26
Operator : RC/JU
Sample : P4892-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 26 00:09:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

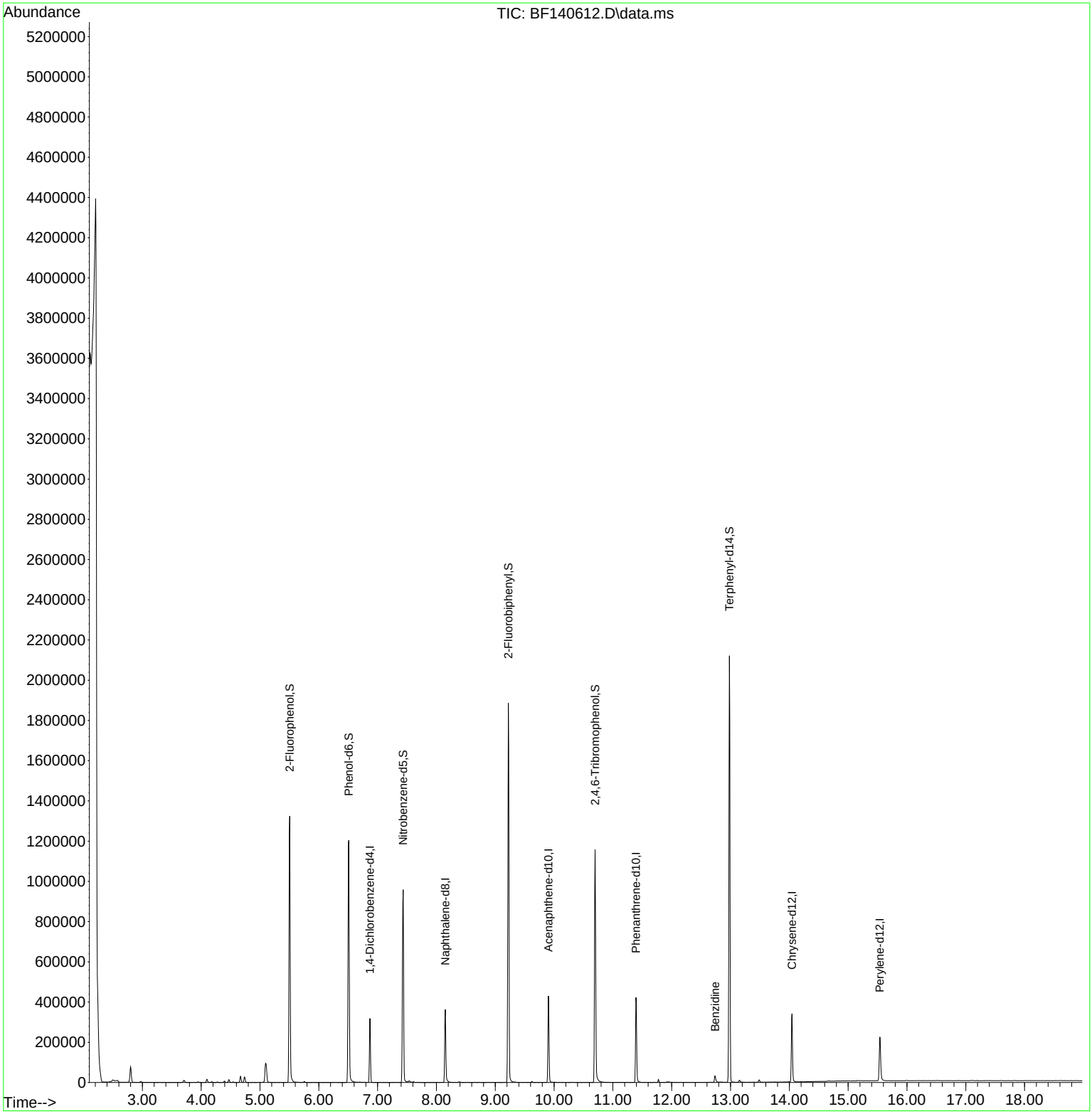
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	64242	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	241000	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	131433	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	245421	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	173047	20.000	ng	0.00
86) Perylene-d12	15.539	264	147144	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	505173	134.169	ng	0.00
7) Phenol-d6	6.510	99	596508	119.837	ng	0.00
23) Nitrobenzene-d5	7.434	82	455735	96.726	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	210116	149.476	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	836033	94.774	ng	-0.01
79) Terphenyl-d14	12.980	244	1036504	93.268	ng	-0.01
Target Compounds						Qvalue
77) Benzidine	12.739	184	27063	5.379	ng	98

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

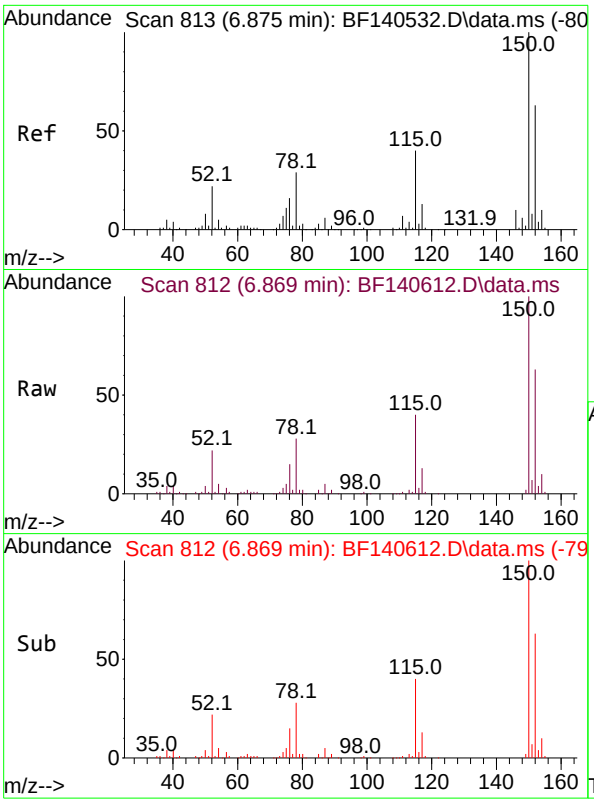
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Data File : BF140612.D
Acq On : 25 Nov 2024 19:26
Operator : RC/JU
Sample : P4892-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 26 00:09:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



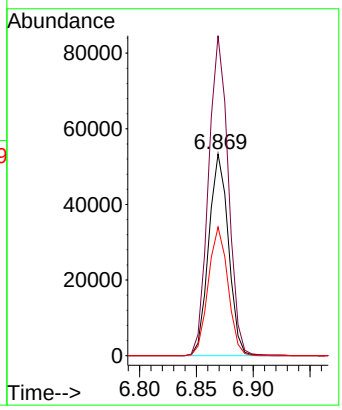
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

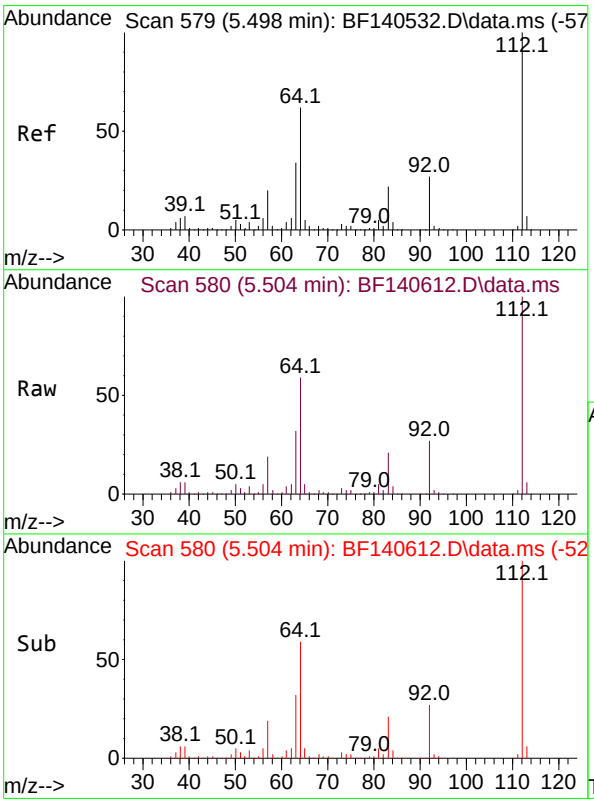


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:152 Resp: 64242

Ion	Ratio	Lower	Upper
152	100		
150	158.6	128.5	192.7
115	63.7	50.2	75.4

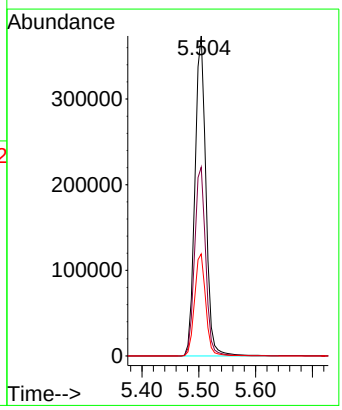




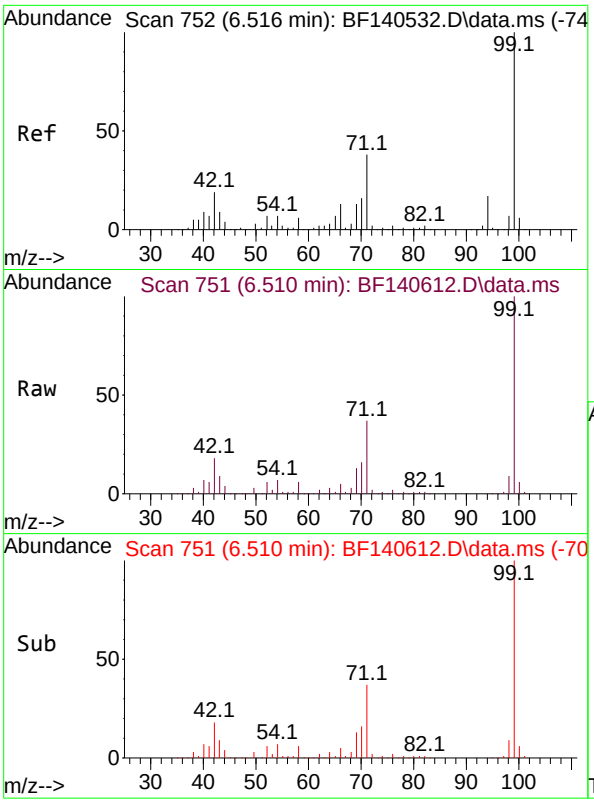
#5
2-Fluorophenol
Concen: 134.169 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:112 Resp: 505173

Ion	Ratio	Lower	Upper
112	100		
64	59.0	49.2	73.8
63	31.9	27.0	40.4



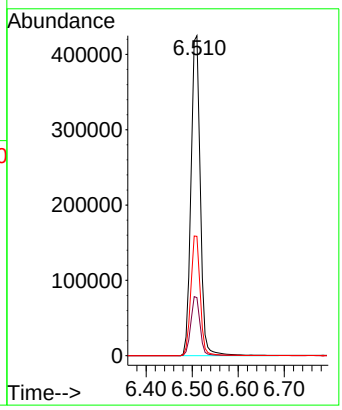
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

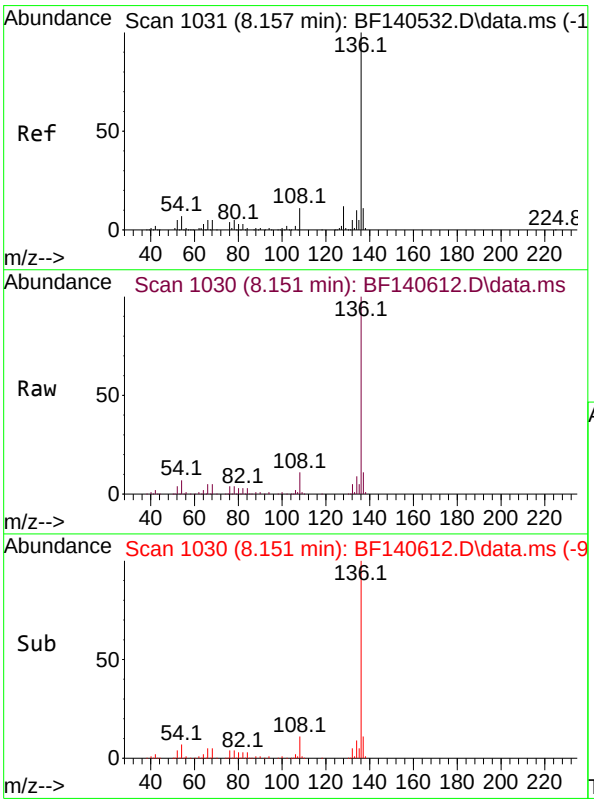


#7
Phenol-d6
Concen: 119.837 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion: 99 Resp: 596508

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.4	23.0
71	37.3	30.6	46.0

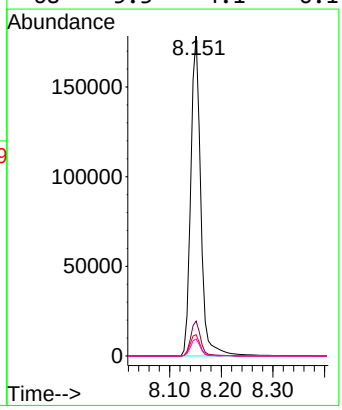




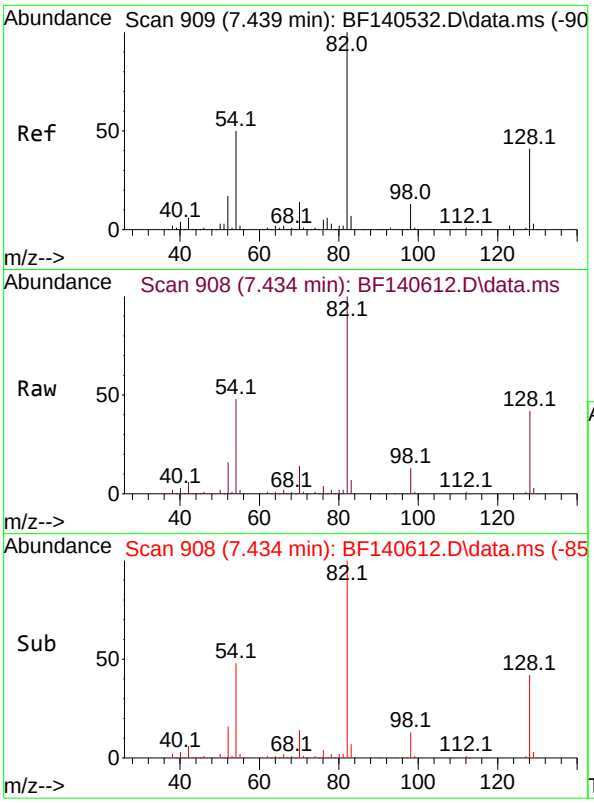
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:136 Resp: 241000

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	6.6	5.8	8.8
68	5.3	4.1	6.1



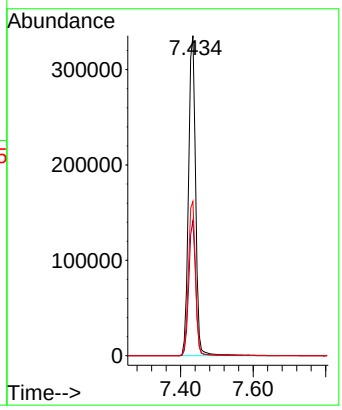
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

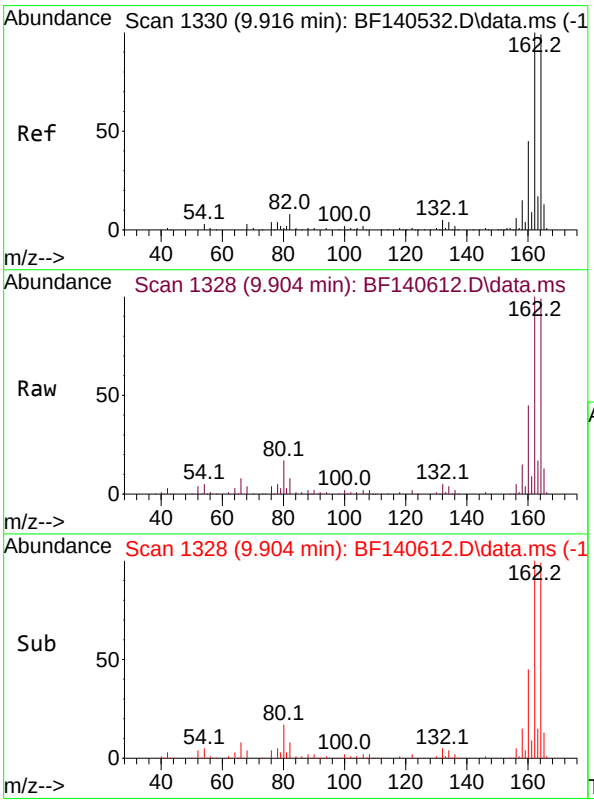


#23
Nitrobenzene-d5
Concen: 96.726 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion: 82 Resp: 455735

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.0	49.4
54	48.2	39.5	59.3

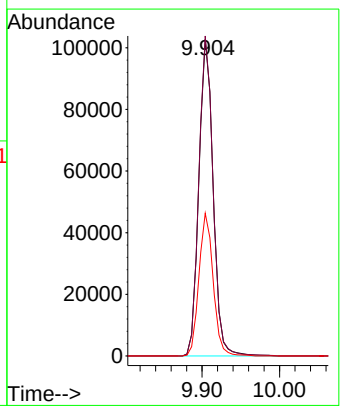


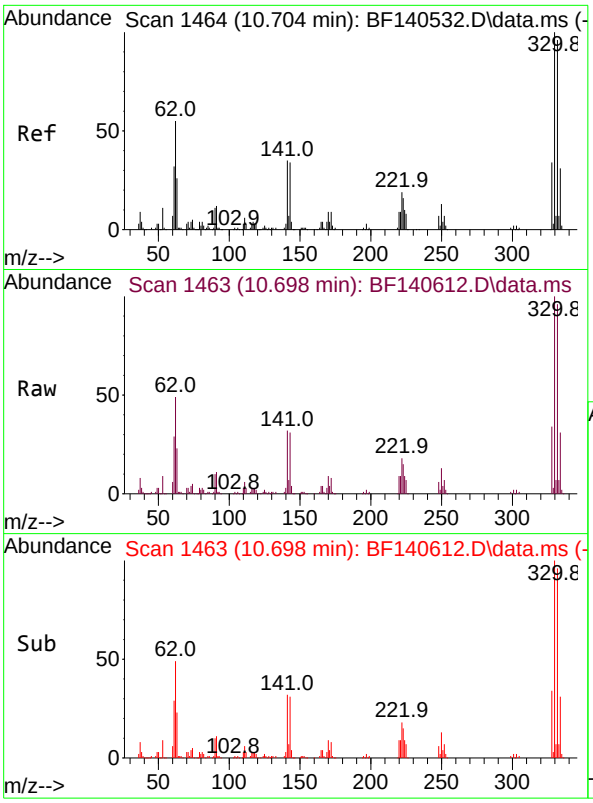


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:164 Resp: 131433

Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	120.8
160	45.1	36.2	54.4



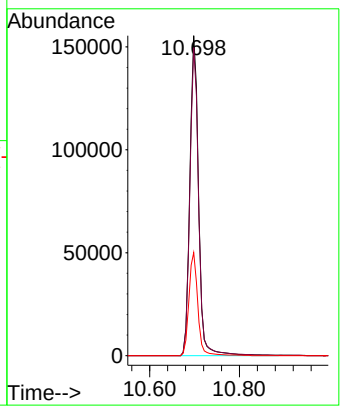


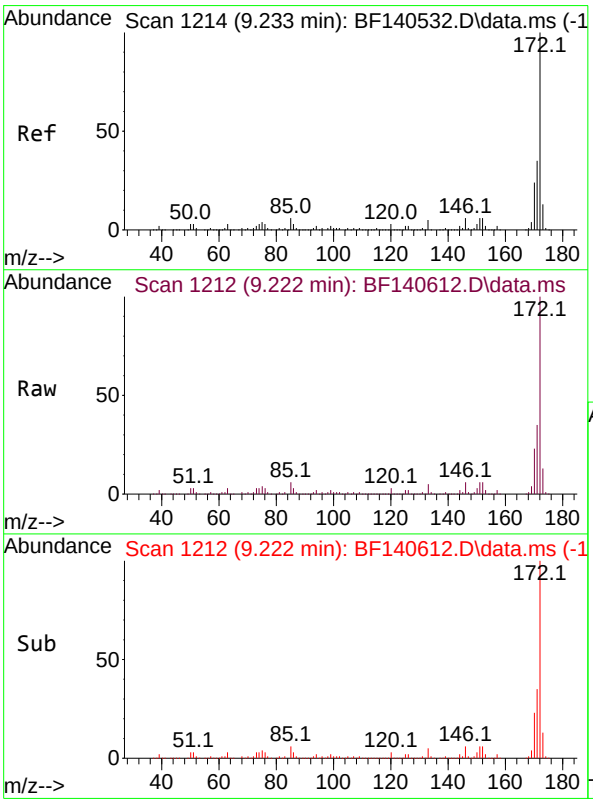
#42
2,4,6-Tribromophenol
Concen: 149.476 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:330 Resp: 210116

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.9	115.3
141	32.7	26.7	40.1

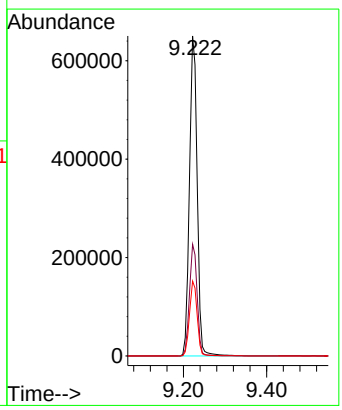




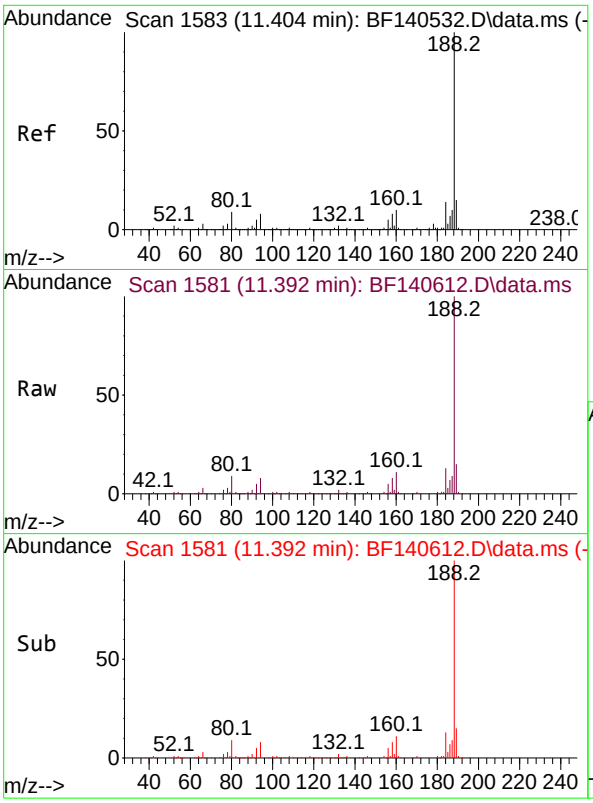
#45
2-Fluorobiphenyl
Concen: 94.774 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:172 Resp: 836033

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.4	42.6
170	23.4	19.0	28.6



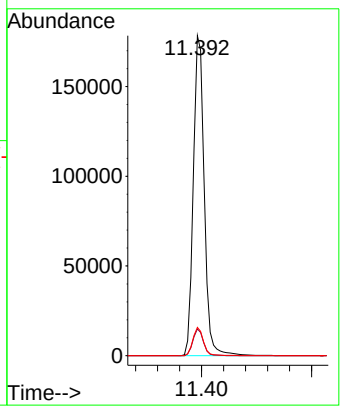
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

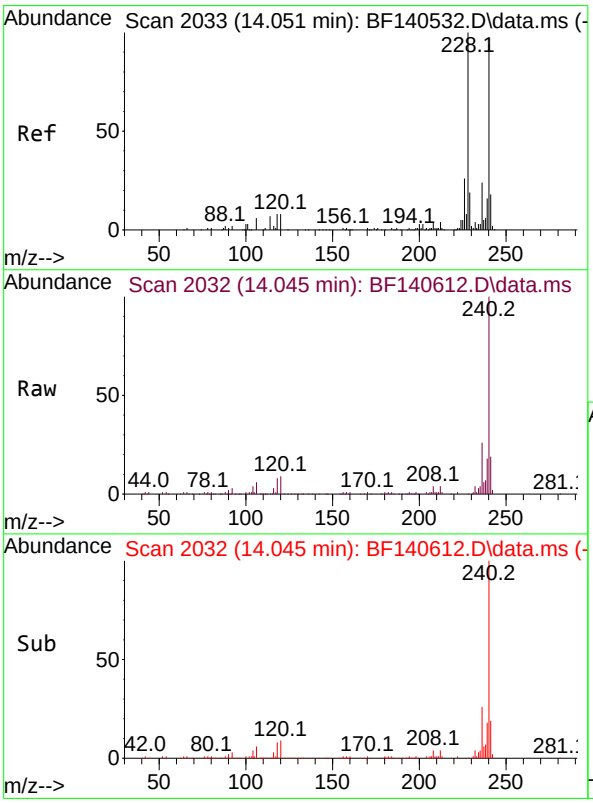


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:188 Resp: 245421

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	8.8	6.9	10.3

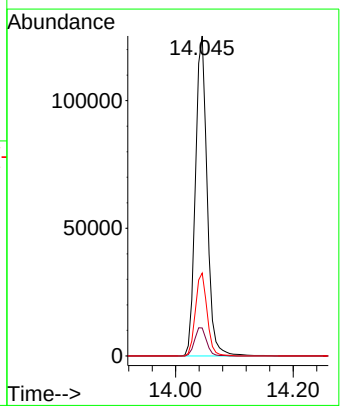




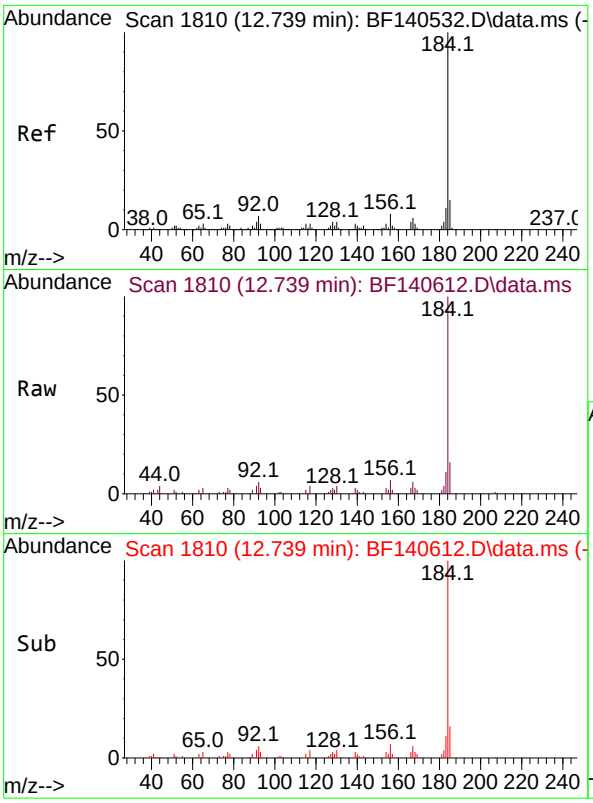
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:240 Resp: 173047

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.3	10.9
236	25.9	20.6	31.0



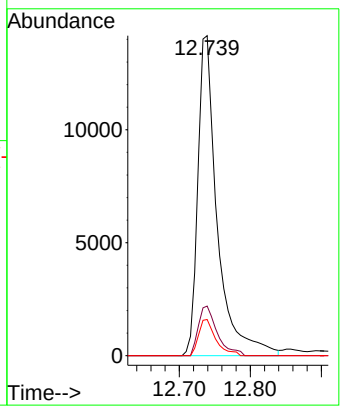
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

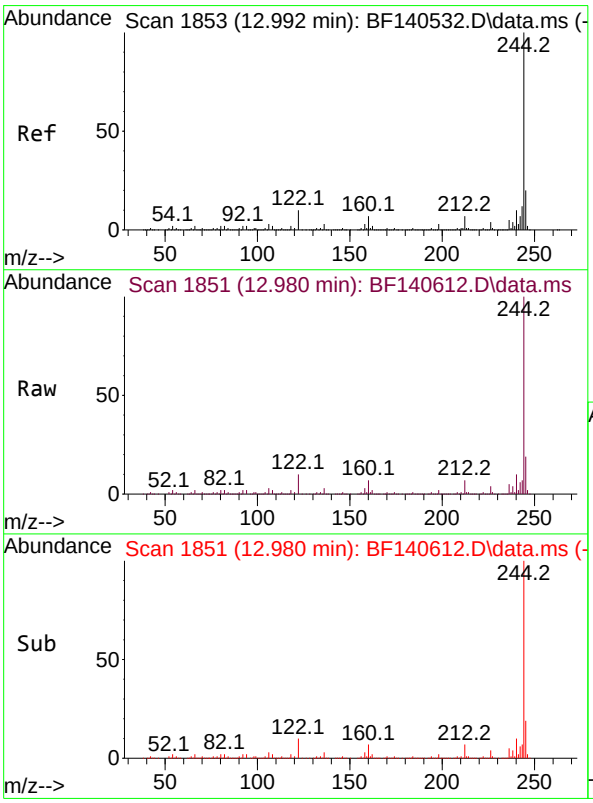


#77
Benzidine
Concen: 5.379 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:184 Resp: 27063

Ion	Ratio	Lower	Upper
184	100		
185	15.5	11.7	17.5
183	11.3	8.8	13.2

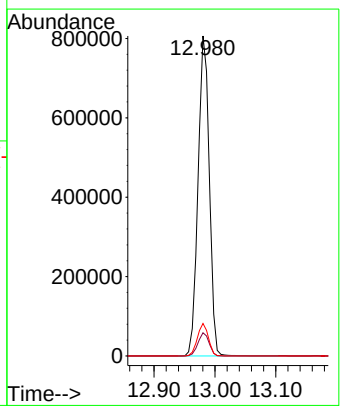


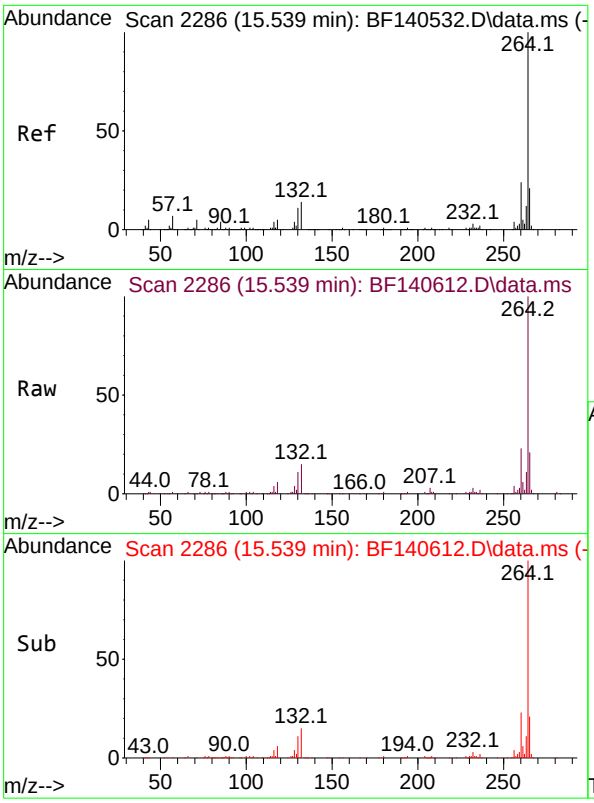


#79
Terphenyl-d14
Concen: 93.268 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.012 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Tgt Ion:244 Resp: 1036504

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.2	8.0	12.0



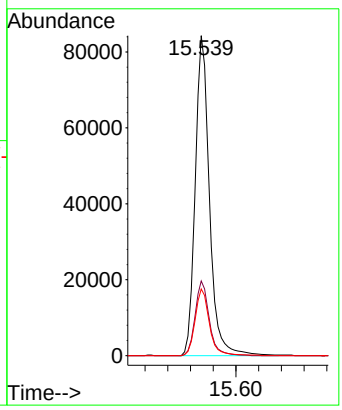


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140612.D
Acq: 25 Nov 2024 19:26

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:264 Resp: 147144

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.6
265	20.9	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140540.D
Acq On : 21 Nov 2024 17:20
Operator : RC/JU
Sample : PB165060TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165060TB

Quant Time: Nov 21 17:44:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

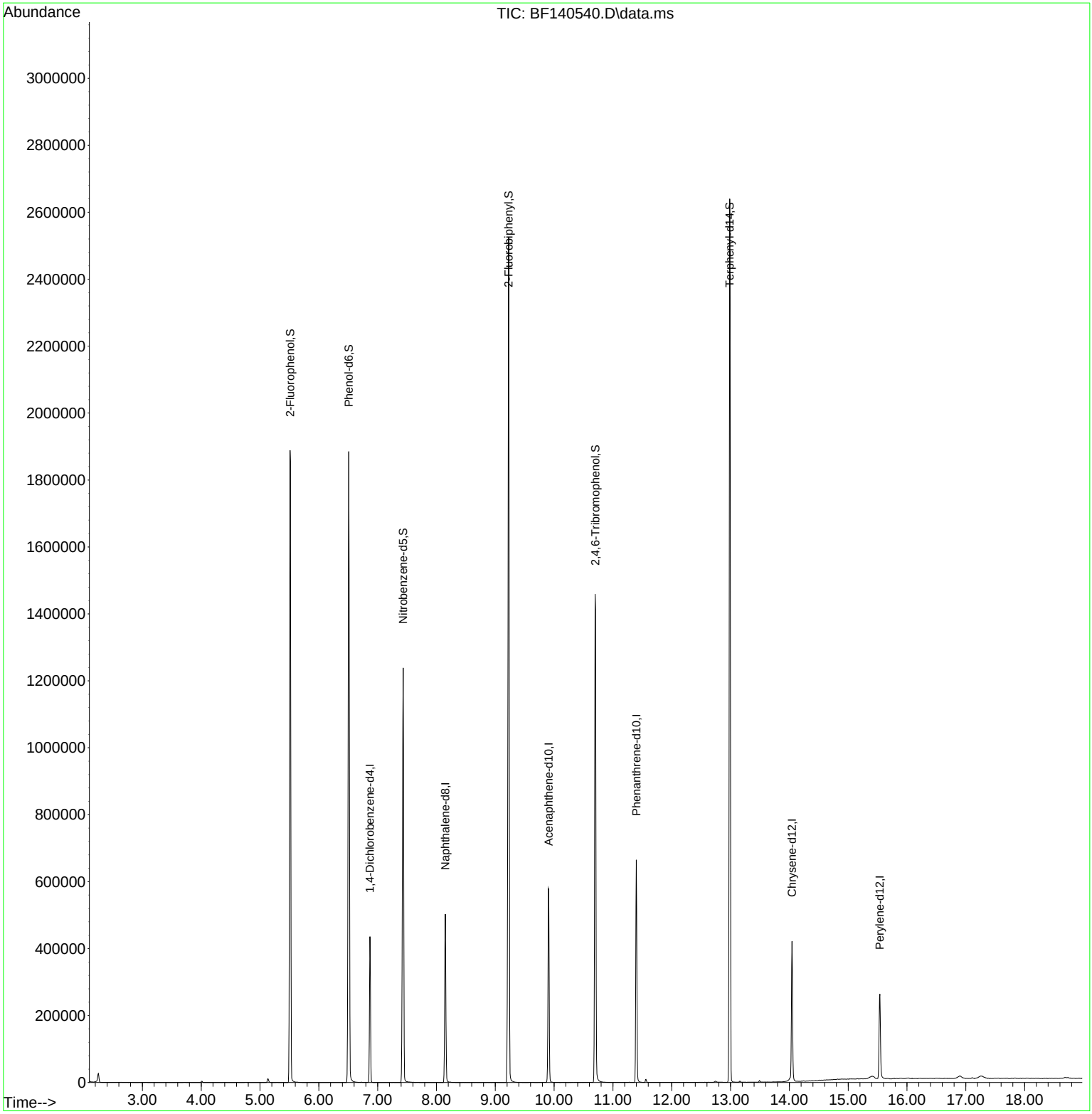
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	89751	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	336762	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	191525	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	362676	20.000	ng	0.00
76) Chrysene-d12	14.045	240	205517	20.000	ng	0.00
86) Perylene-d12	15.539	264	163891	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	726916	138.190	ng	0.02
7) Phenol-d6	6.510	99	938987	135.025	ng	0.00
23) Nitrobenzene-d5	7.433	82	625240	94.967	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	265428	129.580	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1207853	93.963	ng	0.00
79) Terphenyl-d14	12.986	244	1311789	99.390	ng	0.00
Target Compounds						Qvalue

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

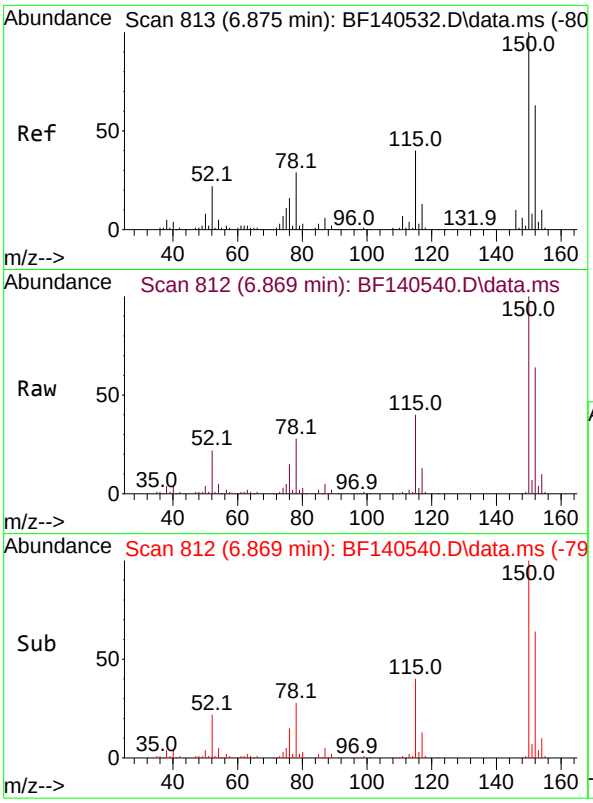
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140540.D
Acq On : 21 Nov 2024 17:20
Operator : RC/JU
Sample : PB165060TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165060TB

Quant Time: Nov 21 17:44:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



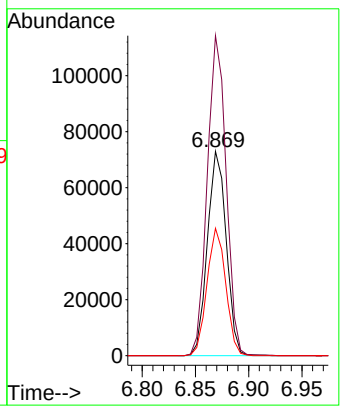
Instrument :
BNA_F
ClientSampleId :
PB165060TB

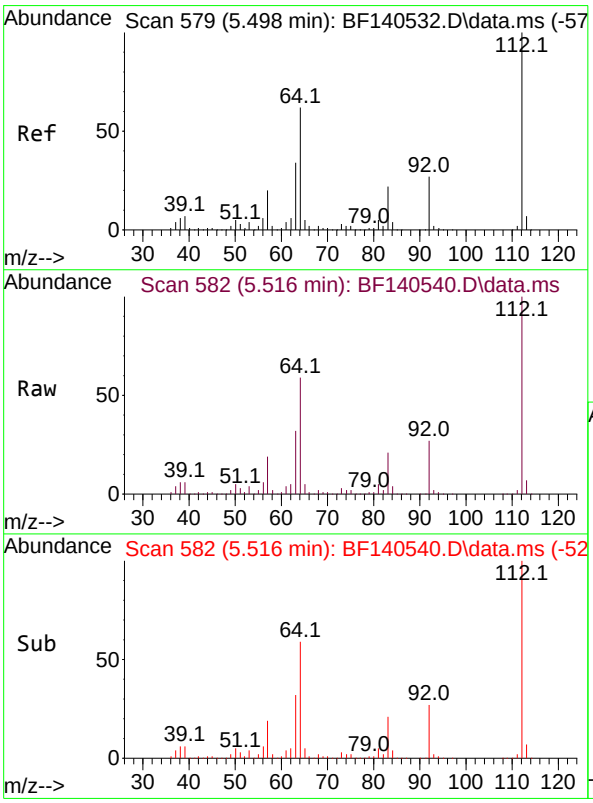


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:152 Resp: 89751

Ion	Ratio	Lower	Upper
152	100		
150	156.6	128.5	192.7
115	62.3	50.2	75.4

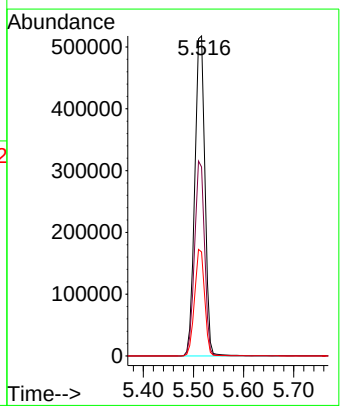


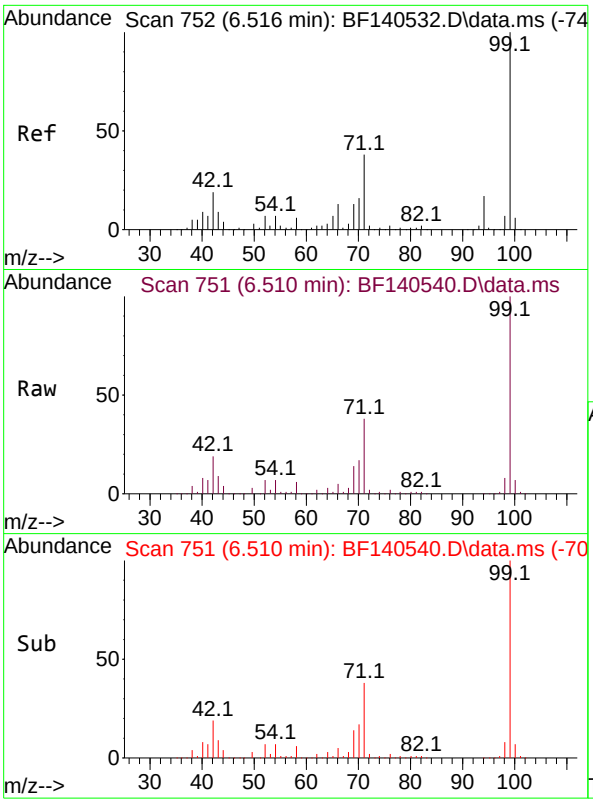


#5
2-Fluorophenol
Concen: 138.190 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:112 Resp: 726916

Ion	Ratio	Lower	Upper
112	100		
64	59.0	49.2	73.8
63	32.5	27.0	40.4



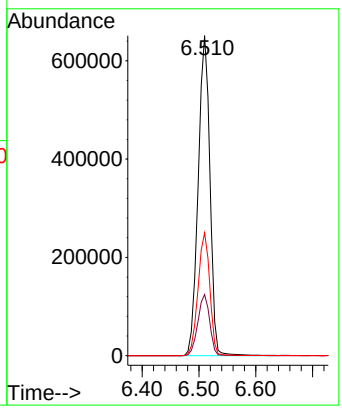


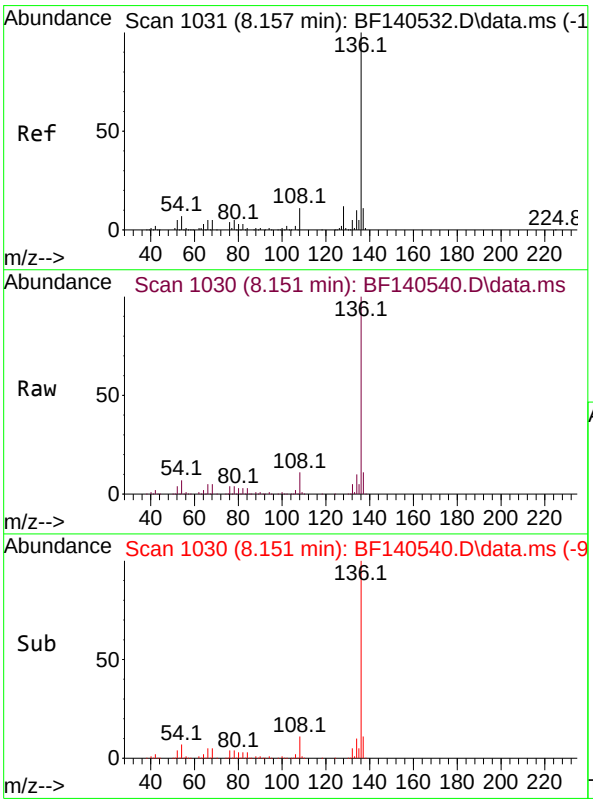
#7
Phenol-d6
Concen: 135.025 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Instrument :
BNA_F
ClientSampleId :
PB165060TB

Tgt Ion: 99 Resp: 938987

Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.4	23.0
71	38.4	30.6	46.0

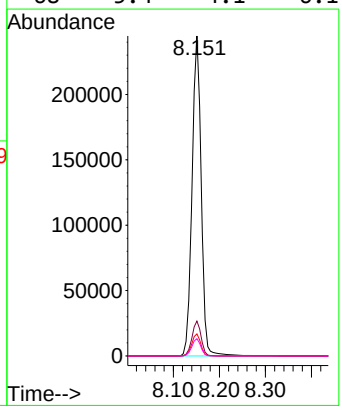


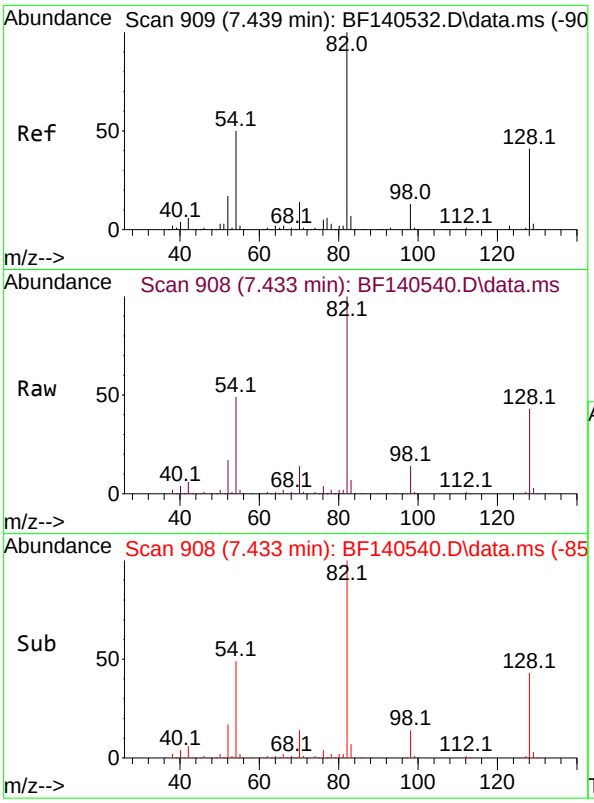


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:136 Resp: 336762

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	6.9	5.8	8.8
68	5.4	4.1	6.1



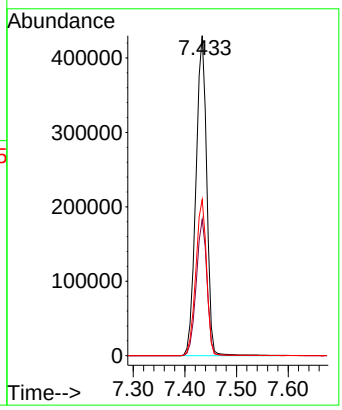


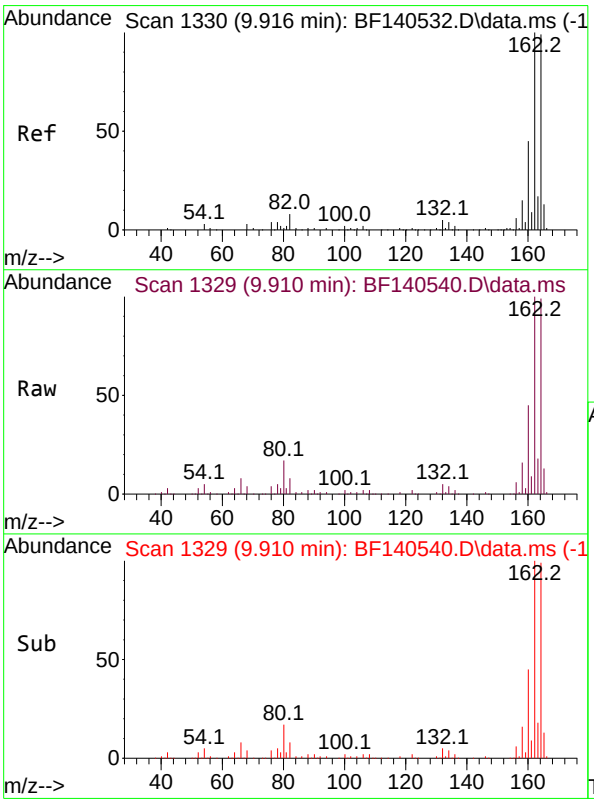
#23
Nitrobenzene-d5
Concen: 94.967 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Instrument :
BNA_F
ClientSampleId :
PB165060TB

Tgt Ion: 82 Resp: 625240

Ion	Ratio	Lower	Upper
82	100		
128	42.6	33.0	49.4
54	48.8	39.5	59.3

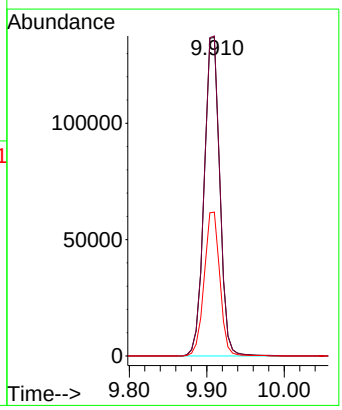


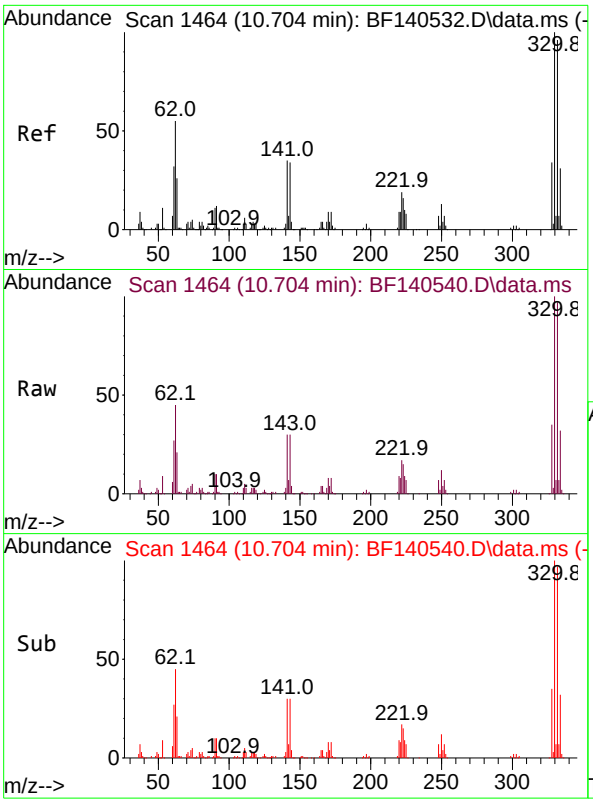


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:164 Resp: 191525

Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.6	120.8
160	45.2	36.2	54.4



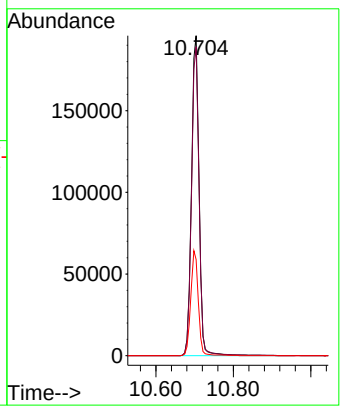


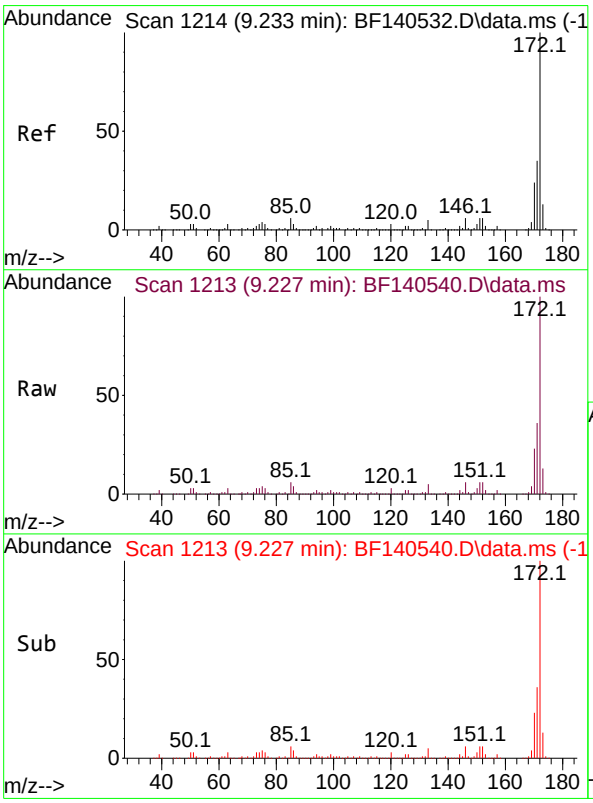
#42
2,4,6-Tribromophenol
Concen: 129.580 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Instrument :
BNA_F
ClientSampleId :
PB165060TB

Tgt Ion:330 Resp: 265428

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	32.8	26.7	40.1

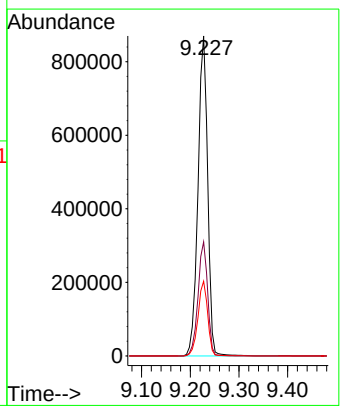




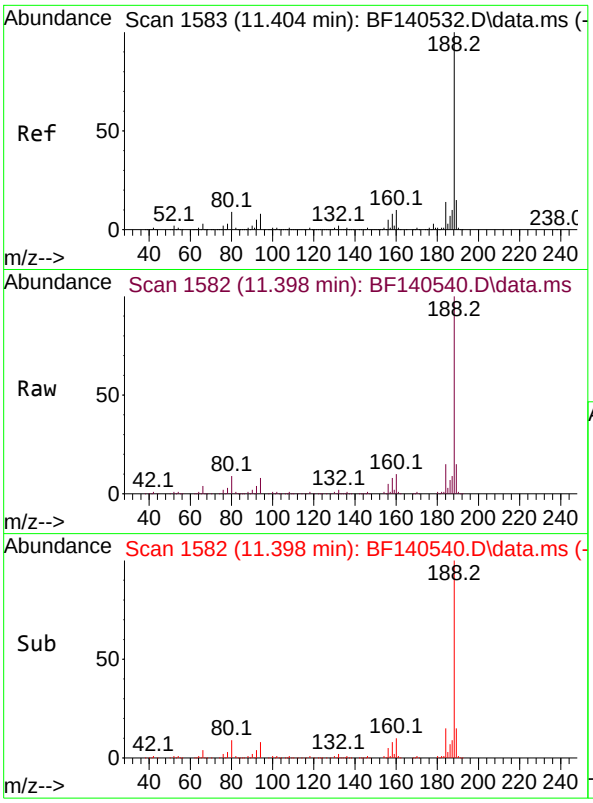
#45
2-Fluorobiphenyl
Concen: 93.963 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:172 Resp: 1207853

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.3	19.0	28.6



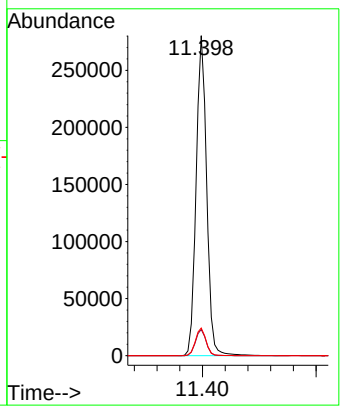
Instrument :
BNA_F
ClientSampleId :
PB165060TB

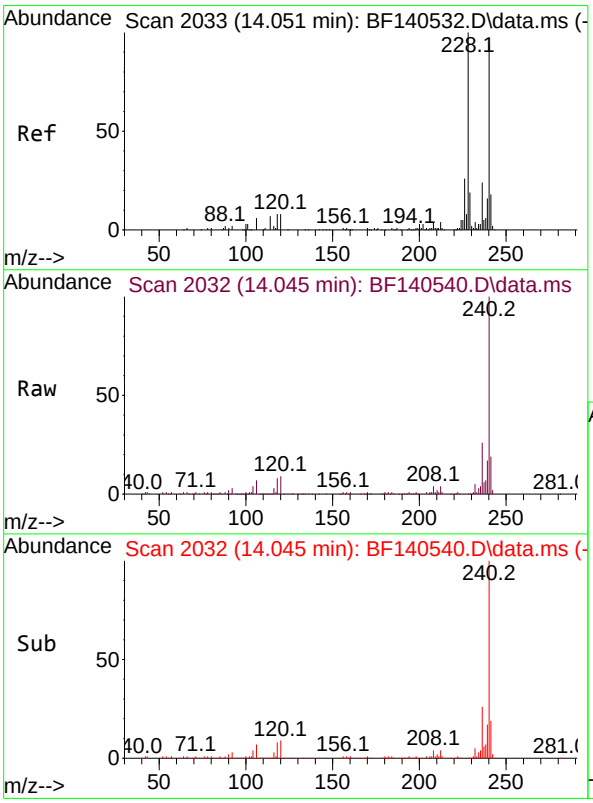


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:188 Resp: 362676

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.6	6.9	10.3

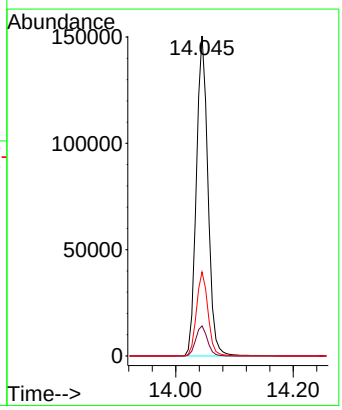




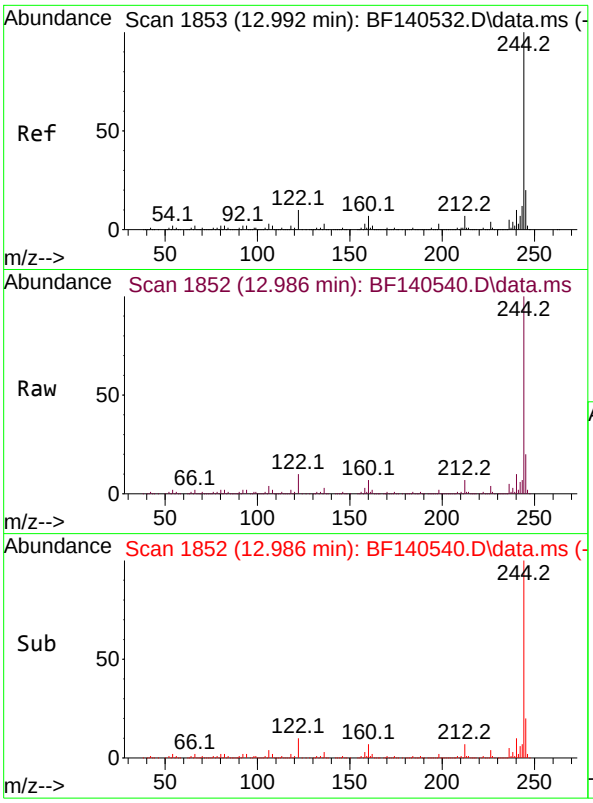
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:240 Resp: 205517

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.3	10.9
236	26.3	20.6	31.0



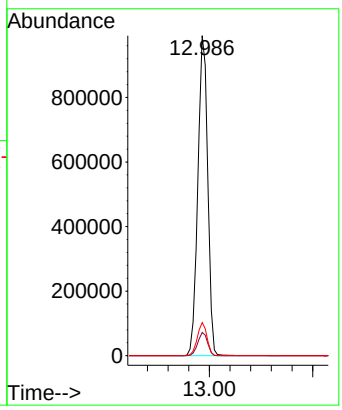
Instrument :
BNA_F
ClientSampleId :
PB165060TB

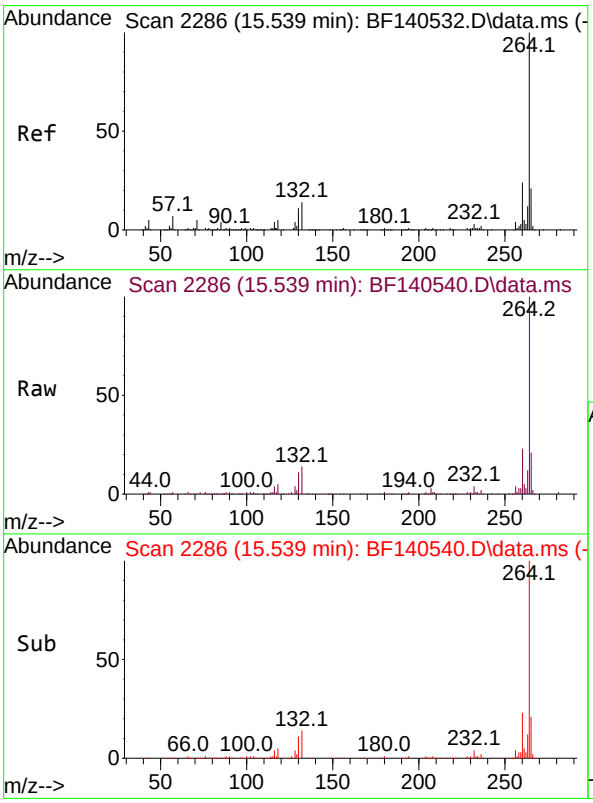


#79
Terphenyl-d14
Concen: 99.390 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:244 Resp: 1311789

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.3	8.0	12.0

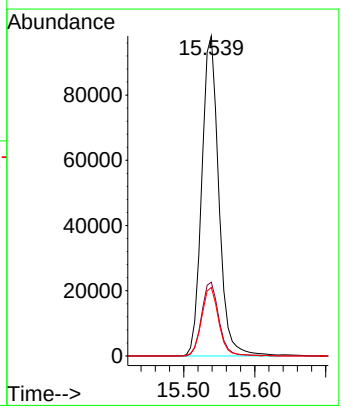




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140540.D
Acq: 21 Nov 2024 17:20

Tgt Ion:264 Resp: 163891

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.0	28.6
265	21.4	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140537.D
Acq On : 21 Nov 2024 15:34
Operator : RC/JU
Sample : PB165144BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Quant Time: Nov 21 16:12:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

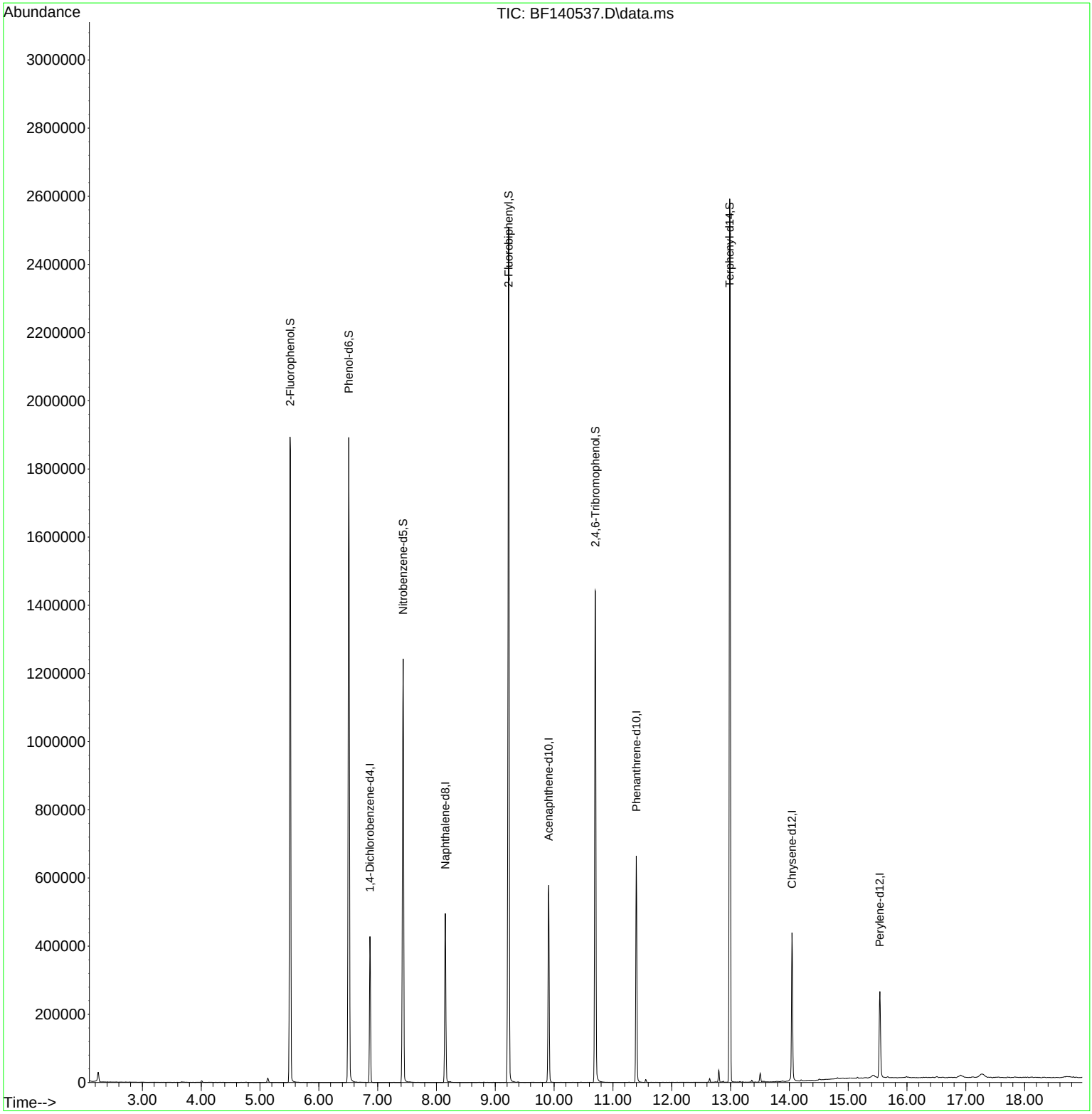
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	89214	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	332852	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	187896	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	359986	20.000	ng	0.00
76) Chrysene-d12	14.045	240	208110	20.000	ng	0.00
86) Perylene-d12	15.539	264	161923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	726213	138.888	ng	0.02
7) Phenol-d6	6.510	99	933803	135.088	ng	0.00
23) Nitrobenzene-d5	7.433	82	623751	95.854	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	267214	132.971	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1199007	95.077	ng	0.00
79) Terphenyl-d14	12.986	244	1315938	98.462	ng	0.00
Target Compounds						Qvalue

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

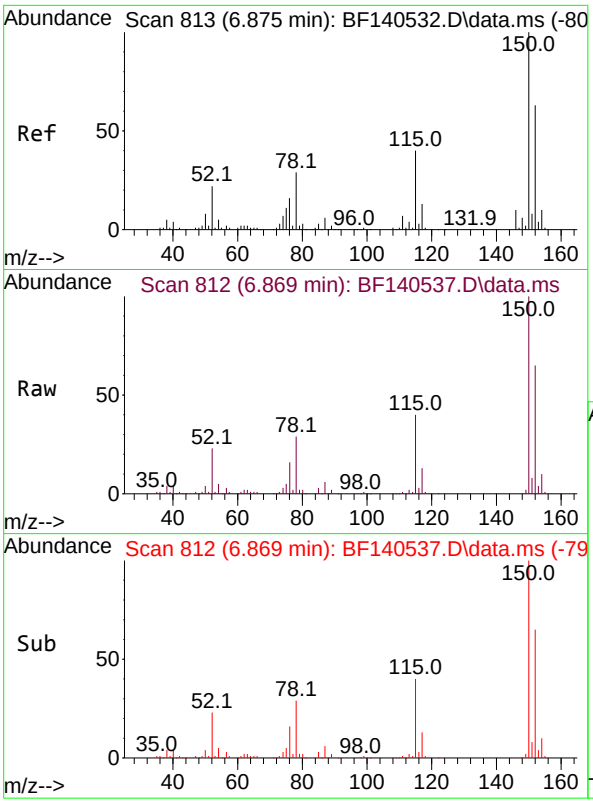
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140537.D
Acq On : 21 Nov 2024 15:34
Operator : RC/JU
Sample : PB165144BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Quant Time: Nov 21 16:12:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



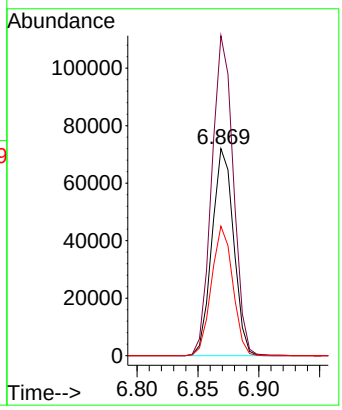
Instrument :
BNA_F
ClientSampleId :
PB165144BL

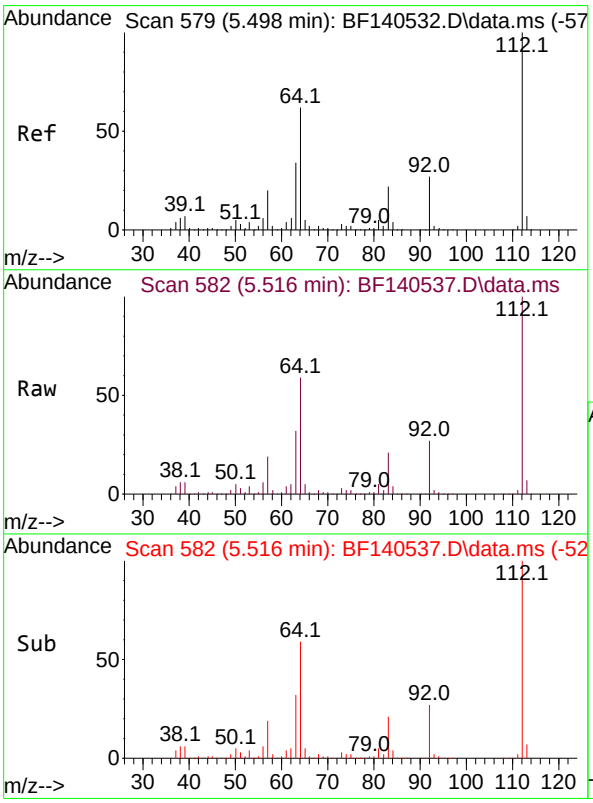


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:152 Resp: 89214

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.5	192.7
115	62.5	50.2	75.4

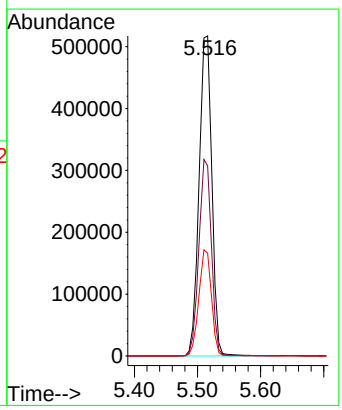


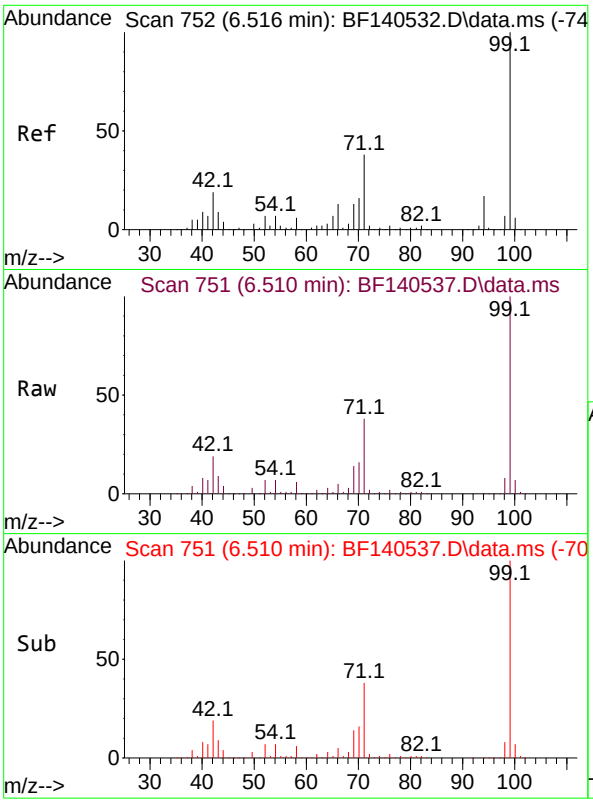


#5
2-Fluorophenol
Concen: 138.888 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:112 Resp: 726213

Ion	Ratio	Lower	Upper
112	100		
64	59.4	49.2	73.8
63	32.1	27.0	40.4



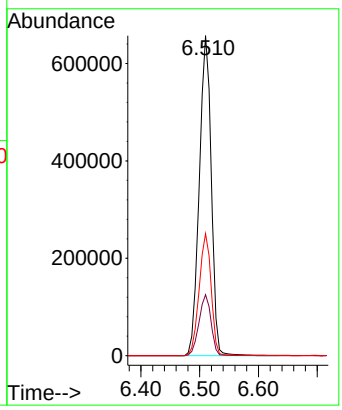


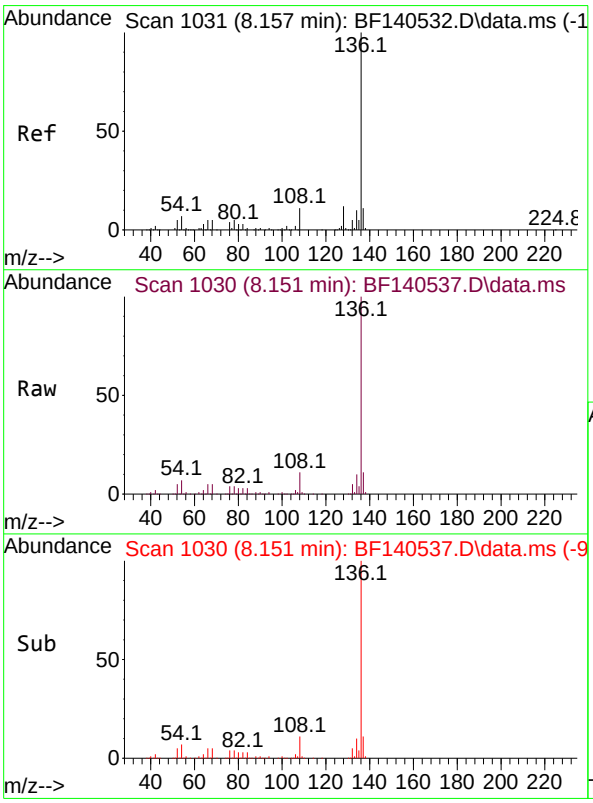
#7
Phenol-d6
Concen: 135.088 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion: 99 Resp: 933803

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.4	23.0
71	38.2	30.6	46.0

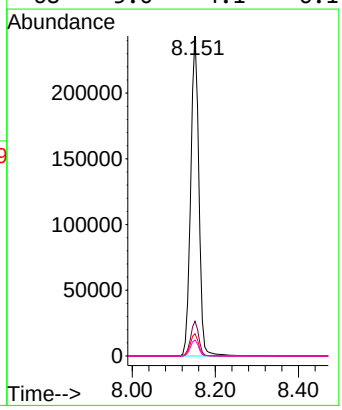




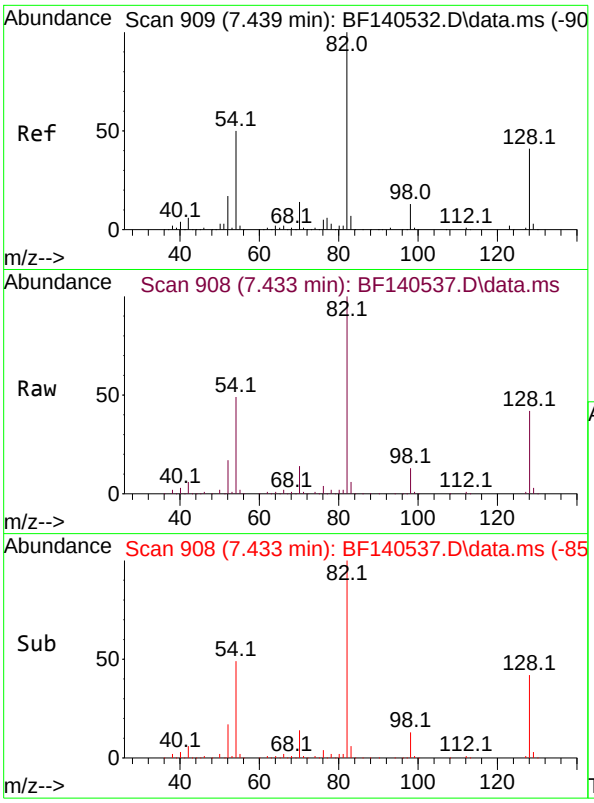
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:136 Resp: 332852

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	6.9	5.8	8.8
68	5.0	4.1	6.1



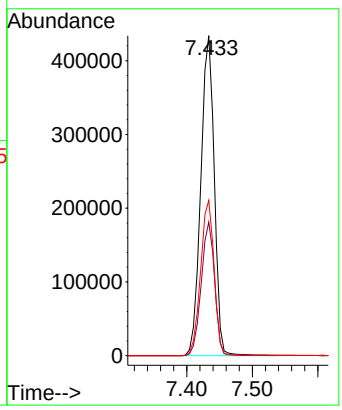
Instrument :
BNA_F
ClientSampleId :
PB165144BL

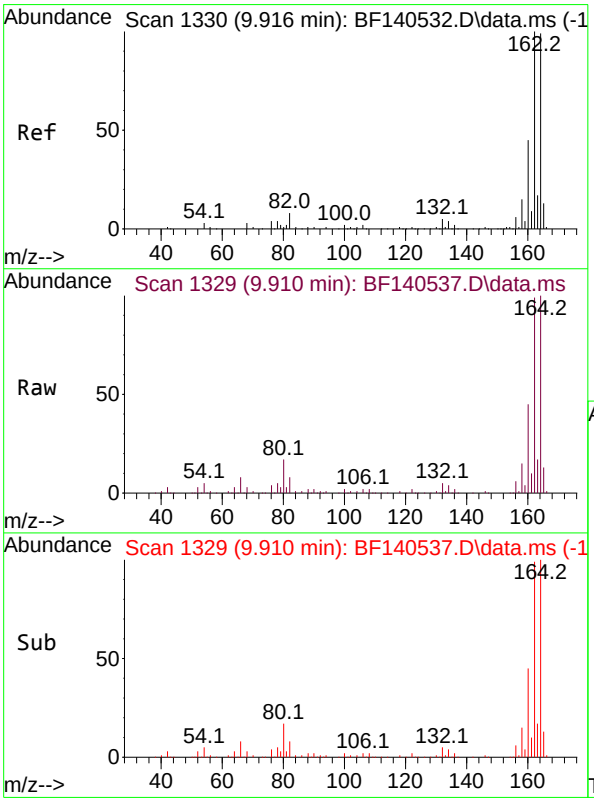


#23
Nitrobenzene-d5
Concen: 95.854 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion: 82 Resp: 623751

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.0	49.4
54	48.5	39.5	59.3

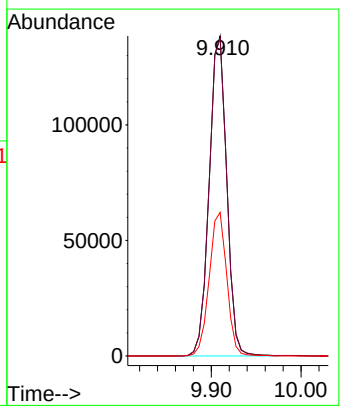




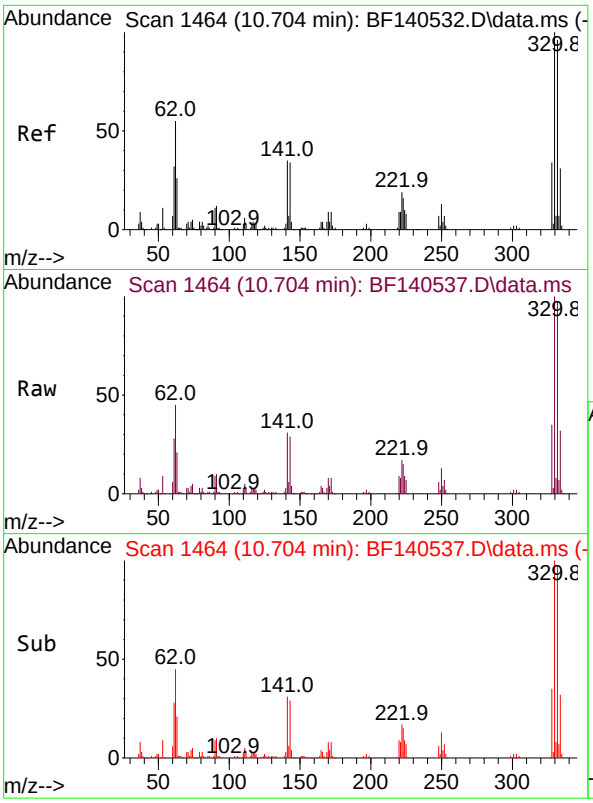
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:164 Resp: 187896

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.6	120.8
160	44.8	36.2	54.4



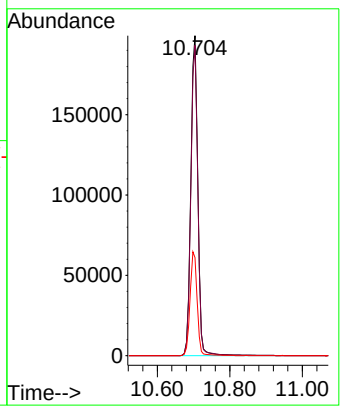
Instrument :
BNA_F
ClientSampleId :
PB165144BL

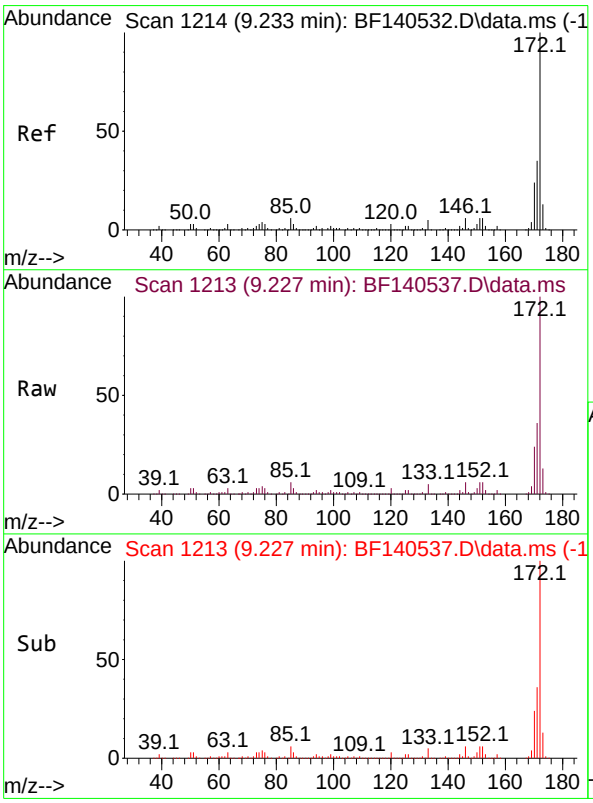


#42
2,4,6-Tribromophenol
Concen: 132.971 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:330 Resp: 267214

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	32.9	26.7	40.1

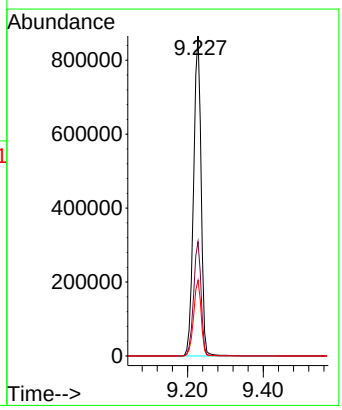




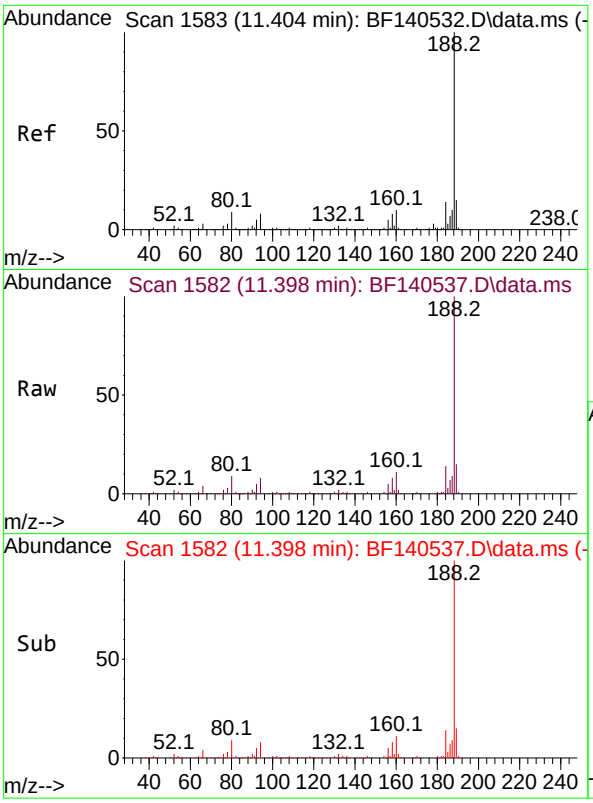
#45
2-Fluorobiphenyl
Concen: 95.077 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:172 Resp: 1199007

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.4	42.6
170	23.6	19.0	28.6



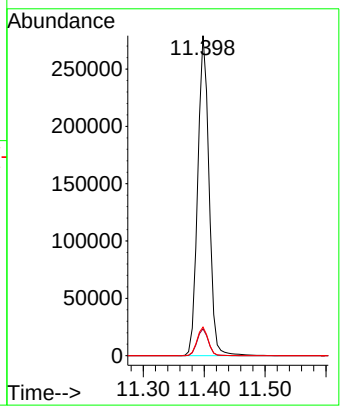
Instrument :
BNA_F
ClientSampleId :
PB165144BL

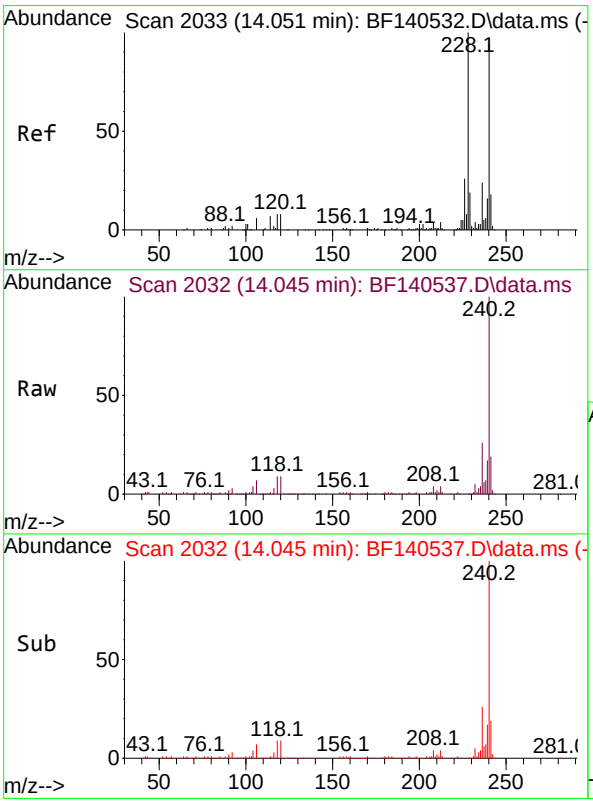


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:188 Resp: 359986

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	8.9	6.9	10.3

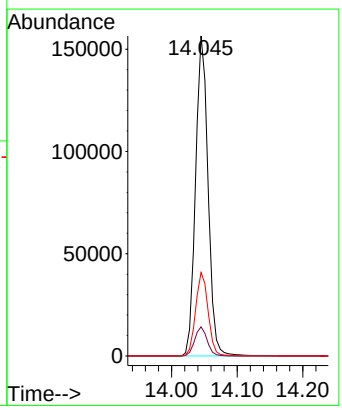




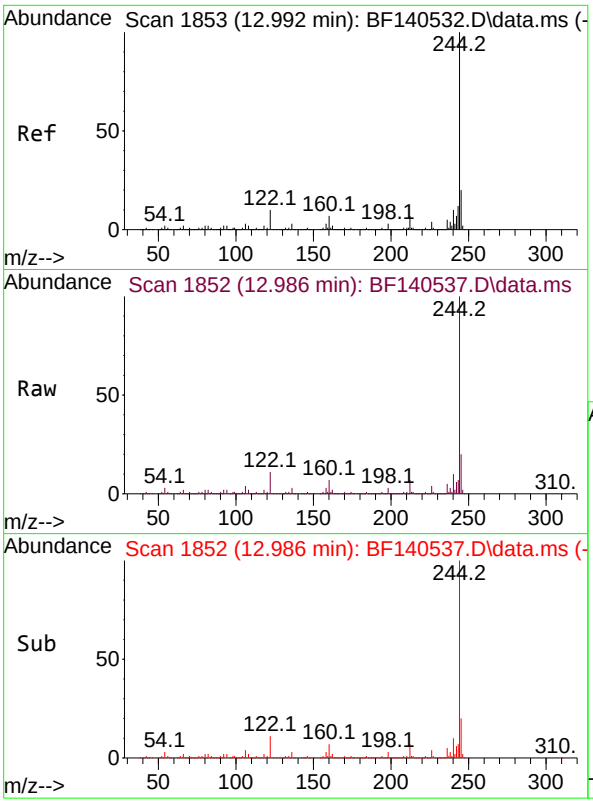
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:240 Resp: 208110

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.3	10.9
236	26.1	20.6	31.0



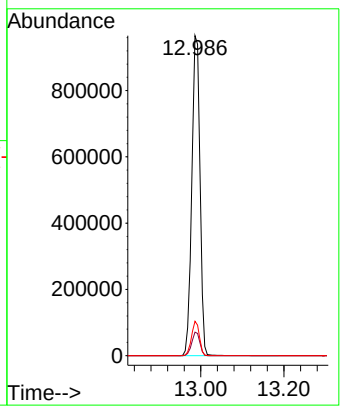
Instrument :
BNA_F
ClientSampleId :
PB165144BL

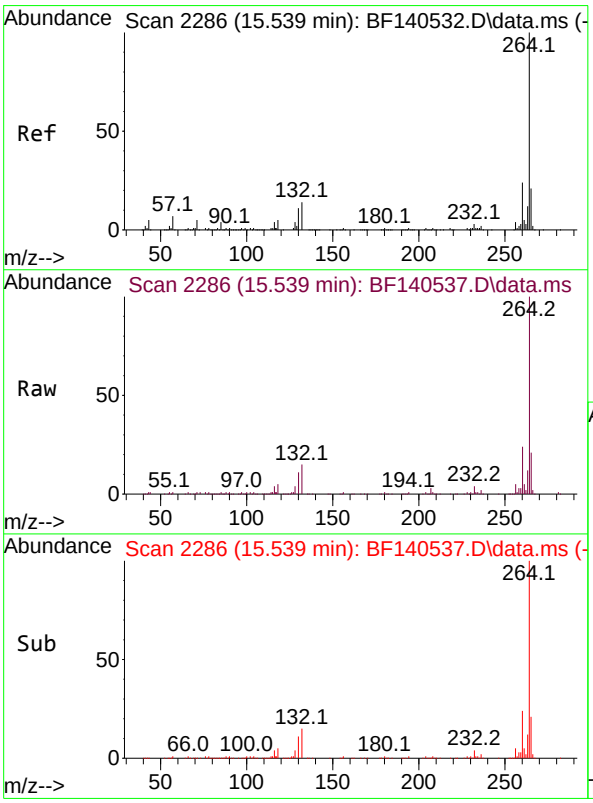


#79
Terphenyl-d14
Concen: 98.462 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:244 Resp: 1315938

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.8	8.0	12.0

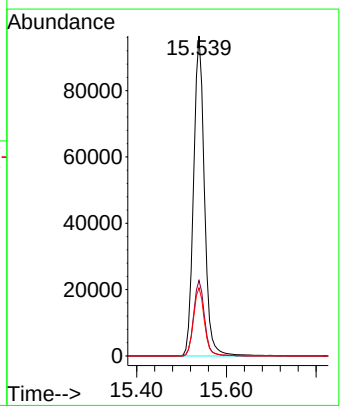




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:264 Resp: 161923

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	21.3	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 11:15:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165144BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	82046	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	308441	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	177190	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	338038	20.000	ng		0.00
76) Chrysene-d12	14.051	240	213188	20.000	ng		0.00
86) Perylene-d12	15.545	264	167110	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	660162	137.286	ng		0.01
7) Phenol-d6	6.516	99	860079	135.293	ng		0.00
23) Nitrobenzene-d5	7.434	82	560054	92.876	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	265293	139.992	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1089947	91.651	ng		0.00
79) Terphenyl-d14	12.986	244	1256199	91.753	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	86757	42.911	ng		97
3) Pyridine	3.493	79	220472	49.562	ng		99
4) n-Nitrosodimethylamine	3.446	42	121230	46.369	ng		93
6) Aniline	6.534	93	222514	49.729	ng	#	85
8) 2-Chlorophenol	6.663	128	257589	49.791	ng		95
9) Benzaldehyde	6.422	77	19047	5.660	ng		98
10) Phenol	6.528	94	326867	50.347	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	238808	48.069	ng		99
12) 1,3-Dichlorobenzene	6.810	146	273009	46.965	ng		98
13) 1,4-Dichlorobenzene	6.887	146	274088	46.566	ng		100
14) 1,2-Dichlorobenzene	7.040	146	263879	47.844	ng		100
15) Benzyl Alcohol	7.016	79	237674	50.414	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.140	45	295074	50.275	ng		90
17) 2-Methylphenol	7.128	107	206253	49.804	ng		97
18) Hexachloroethane	7.381	117	102854	46.787	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	179461	47.766	ng		99
20) 3+4-Methylphenols	7.281	107	261956	49.213	ng		96
22) Acetophenone	7.281	105	355523	47.279	ng		99
24) Nitrobenzene	7.457	77	285464	45.804	ng		97
25) Isophorone	7.693	82	494582	49.174	ng		100
26) 2-Nitrophenol	7.769	139	140191	50.759	ng		96
27) 2,4-Dimethylphenol	7.804	122	209117	63.282	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	296167	48.336	ng		99
29) 2,4-Dichlorophenol	8.016	162	218763	49.960	ng		98
30) 1,2,4-Trichlorobenzene	8.093	180	229749	45.954	ng		99
31) Naphthalene	8.175	128	765296	48.170	ng		100
32) Benzoic acid	7.940	122	114650	41.088	ng		100
33) 4-Chloroaniline	8.222	127	133189	28.000	ng		97
34) Hexachlorobutadiene	8.287	225	152393	46.020	ng		99
35) Caprolactam	8.598	113	69861m	51.555	ng		
36) 4-Chloro-3-methylphenol	8.716	107	246154	50.209	ng		98
37) 2-Methylnaphthalene	8.863	142	502787	49.825	ng		99
38) 1-Methylnaphthalene	8.963	142	467838	47.298	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	242624	46.773	ng		99
41) Hexachlorocyclopentadiene	9.016	237	200078	163.248	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	156766	48.162	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165144BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 11:15:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	164532	46.576	ng	96
46) 1,1'-Biphenyl	9.328	154	631034	47.700	ng	99
47) 2-Chloronaphthalene	9.357	162	470299	46.917	ng	99
48) 2-Nitroaniline	9.457	65	158673	49.315	ng	96
49) Acenaphthylene	9.769	152	781907	51.626	ng	99
50) Dimethylphthalate	9.628	163	574368	49.219	ng	99
51) 2,6-Dinitrotoluene	9.698	165	125055	47.251	ng	94
52) Acenaphthene	9.945	154	473370	49.189	ng	100
53) 3-Nitroaniline	9.869	138	83776	32.365	ng	96
54) 2,4-Dinitrophenol	9.981	184	120715	87.279	ng	97
55) Dibenzofuran	10.116	168	706974	48.163	ng	99
56) 4-Nitrophenol	10.045	139	168353	95.365	ng	94
57) 2,4-Dinitrotoluene	10.104	165	172553	49.057	ng	97
58) Fluorene	10.457	166	560062	47.534	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	141245	52.026	ng	95
60) Diethylphthalate	10.328	149	565227	47.672	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	277803	48.045	ng	99
62) 4-Nitroaniline	10.486	138	130223	47.967	ng	97
63) Azobenzene	10.610	77	541255	48.205	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	94895	54.935	ng	96
66) n-Nitrosodiphenylamine	10.569	169	487573	48.774	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	165350	47.497	ng	98
68) Hexachlorobenzene	11.010	284	189679	47.055	ng	99
69) Atrazine	11.098	200	161923	57.578	ng	98
70) Pentachlorophenol	11.210	266	172264	97.098	ng	99
71) Phenanthrene	11.428	178	808001	49.726	ng	99
72) Anthracene	11.475	178	823351	51.800	ng	99
73) Carbazole	11.633	167	763113	49.906	ng	100
74) Di-n-butylphthalate	11.951	149	868491	49.197	ng	100
75) Fluoranthene	12.616	202	893626	50.652	ng	99
77) Benzidine	12.739	184	184796	29.814	ng	99
78) Pyrene	12.845	202	920263	46.686	ng	100
80) Butylbenzylphthalate	13.457	149	344945	48.577	ng	98
81) Benzo(a)anthracene	14.039	228	712365	50.479	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	139928	33.025	ng	98
83) Chrysene	14.075	228	656248	50.856	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	455416	50.791	ng	100
85) Di-n-octyl phthalate	14.639	149	659465	53.817	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	548733	50.387	ng	99
88) Benzo(b)fluoranthene	15.110	252	535206	50.989	ng	99
89) Benzo(k)fluoranthene	15.139	252	484597	52.758	ng	100
90) Benzo(a)pyrene	15.480	252	467848	54.819	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	450067	50.463	ng	100
92) Benzo(g,h,i)perylene	17.510	276	423327	46.514	ng	98

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

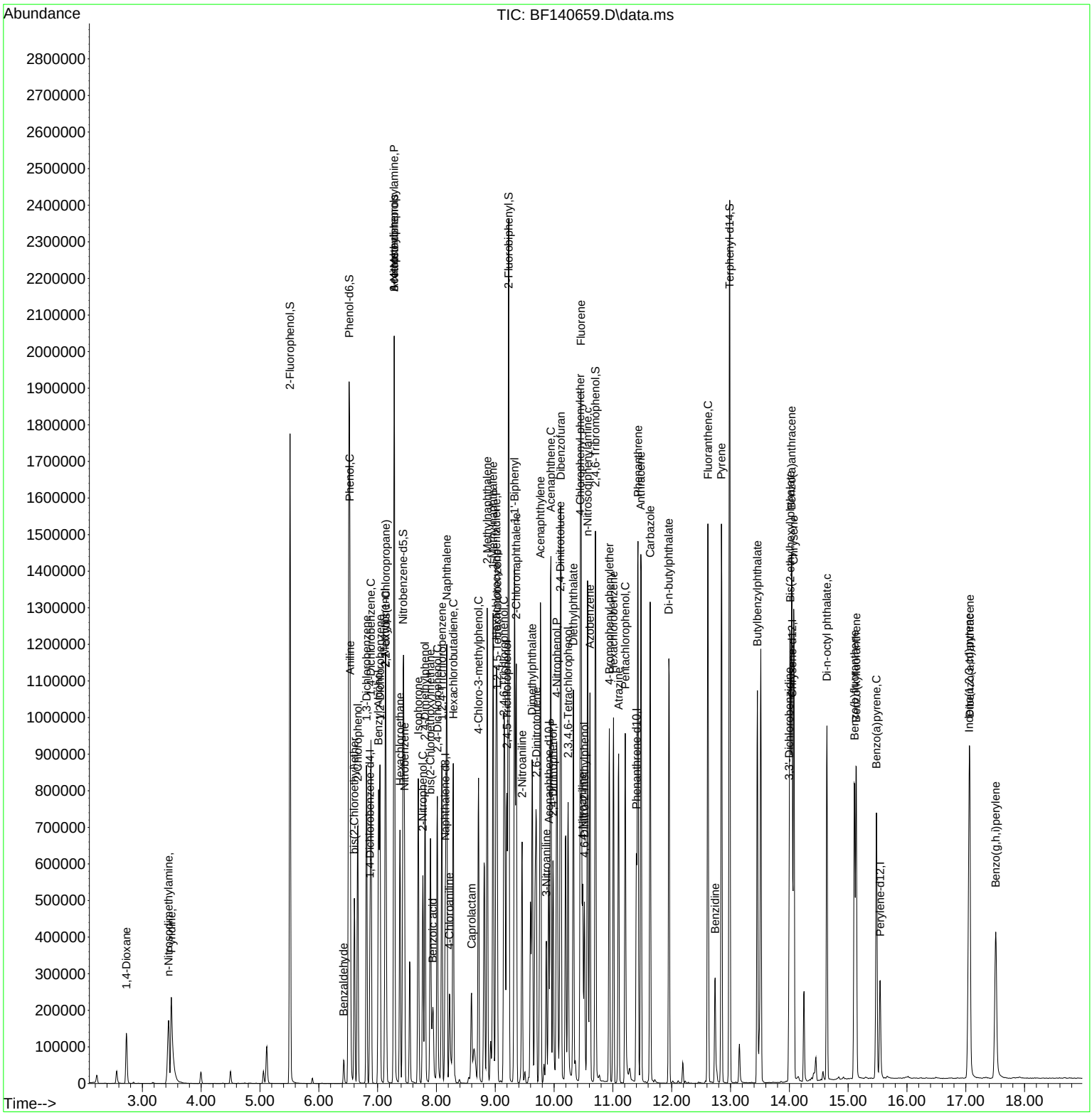
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 11:15:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165144BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 01:33:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	62131	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	221607	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	122175	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	233749	20.000	ng		0.00
76) Chrysene-d12	14.045	240	142609	20.000	ng		0.00
86) Perylene-d12	15.539	264	139916	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	480816	132.039	ng		0.00
7) Phenol-d6	6.510	99	577527	119.966	ng		0.00
23) Nitrobenzene-d5	7.434	82	431155	99.517	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	207310	158.655	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	793877	96.815	ng		0.00
79) Terphenyl-d14	12.980	244	953400	104.101	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	60736	39.670	ng		98
3) Pyridine	3.469	79	135391	40.192	ng		100
4) n-Nitrosodimethylamine	3.393	42	84881	42.872	ng		94
6) Aniline	6.534	93	98042	28.934	ng	#	70
8) 2-Chlorophenol	6.663	128	180708	46.126	ng		95
9) Benzaldehyde	6.428	77	7314	2.870	ng		96
10) Phenol	6.522	94	207548	42.215	ng		92
11) bis(2-Chloroethyl)ether	6.604	93	165298	43.937	ng		100
12) 1,3-Dichlorobenzene	6.810	146	137092	31.143	ng		99
13) 1,4-Dichlorobenzene	6.887	146	142773	32.032	ng		99
14) 1,2-Dichlorobenzene	7.039	146	143542	34.368	ng		99
15) Benzyl Alcohol	7.016	79	173262	48.531	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.139	45	192626	43.340	ng		88
17) 2-Methylphenol	7.128	107	146144	46.601	ng		99
18) Hexachloroethane	7.381	117	50313	30.223	ng		98
19) n-Nitroso-di-n-propyla...	7.281	70	133035	46.759	ng		98
20) 3+4-Methylphenols	7.281	107	189738	47.071	ng	#	88
22) Acetophenone	7.281	105	258375	47.824	ng		98
24) Nitrobenzene	7.451	77	198594	44.351	ng		99
25) Isophorone	7.692	82	362961	50.228	ng		99
26) 2-Nitrophenol	7.769	139	95271	48.012	ng		99
27) 2,4-Dimethylphenol	7.804	122	151571m	63.841	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	214347	48.690	ng		99
29) 2,4-Dichlorophenol	8.016	162	162076	51.518	ng		97
30) 1,2,4-Trichlorobenzene	8.092	180	148140	41.241	ng		98
31) Naphthalene	8.175	128	509377	44.625	ng		99
32) Benzoic acid	7.928	122	95012	46.288	ng		99
33) 4-Chloroaniline	8.228	127	44466	13.011	ng		97
34) Hexachlorobutadiene	8.286	225	91159	38.315	ng		99
35) Caprolactam	8.586	113	43981m	45.174	ng		
36) 4-Chloro-3-methylphenol	8.710	107	180333	51.197	ng		99
37) 2-Methylnaphthalene	8.863	142	356471	49.167	ng		100
38) 1-Methylnaphthalene	8.963	142	332678	46.813	ng		100
40) 1,2,4,5-Tetrachloroben...	9.028	216	176202	49.264	ng		99
41) Hexachlorocyclopentadiene	9.016	237	131931	156.436	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	115856	51.622	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 01:33:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	126594	51.974	ng	98
46) 1,1'-Biphenyl	9.328	154	451328	49.479	ng	99
47) 2-Chloronaphthalene	9.351	162	339951	49.185	ng	99
48) 2-Nitroaniline	9.451	65	121982	54.983	ng	99
49) Acenaphthylene	9.769	152	576890	55.241	ng	99
50) Dimethylphthalate	9.628	163	423095	52.582	ng	100
51) 2,6-Dinitrotoluene	9.692	165	92350	50.606	ng	98
52) Acenaphthene	9.939	154	347150	52.317	ng	99
53) 3-Nitroaniline	9.863	138	40331	22.597	ng	97
54) 2,4-Dinitrophenol	9.975	184	95599	99.083	ng	99
55) Dibenzofuran	10.116	168	529228	52.289	ng	99
56) 4-Nitrophenol	10.039	139	130842	107.491	ng	98
57) 2,4-Dinitrotoluene	10.098	165	131881	54.377	ng	97
58) Fluorene	10.457	166	430529	52.995	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	109906	58.712	ng	95
60) Diethylphthalate	10.328	149	424041	51.869	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	207770	52.113	ng	98
62) 4-Nitroaniline	10.480	138	100087	53.467	ng	97
63) Azobenzene	10.610	77	407336	52.614	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	69222	57.952	ng	100
66) n-Nitrosodiphenylamine	10.569	169	366728	53.052	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	124486	51.713	ng	96
68) Hexachlorobenzene	11.004	284	143124	51.347	ng	96
69) Atrazine	11.092	200	121415	62.436	ng	99
70) Pentachlorophenol	11.210	266	145390	118.513	ng	99
71) Phenanthrene	11.422	178	627848	55.878	ng	100
72) Anthracene	11.474	178	635239	57.796	ng	100
73) Carbazole	11.633	167	605108	57.229	ng	100
74) Di-n-butylphthalate	11.951	149	666795	54.624	ng	99
75) Fluoranthene	12.616	202	700692	57.436	ng	99
77) Benzidine	12.733	184	73119	17.635	ng	100
78) Pyrene	12.845	202	713798	54.133	ng	99
80) Butylbenzylphthalate	13.457	149	243532	51.269	ng	99
81) Benzo(a)anthracene	14.033	228	503621	53.349	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	75498	26.637	ng	99
83) Chrysene	14.074	228	474768	55.001	ng	99
84) Bis(2-ethylhexyl)phtha...	14.010	149	312333	52.073	ng	99
85) Di-n-octyl phthalate	14.639	149	448346	54.696	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	520377	57.070	ng	99
88) Benzo(b)fluoranthene	15.104	252	435157	49.515	ng	100
89) Benzo(k)fluoranthene	15.133	252	424758	55.231	ng	100
90) Benzo(a)pyrene	15.474	252	420698	58.875	ng	99
91) Dibenzo(a,h)anthracene	17.056	278	424791	56.886	ng	99
92) Benzo(g,h,i)perylene	17.503	276	386129	50.673	ng	99

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

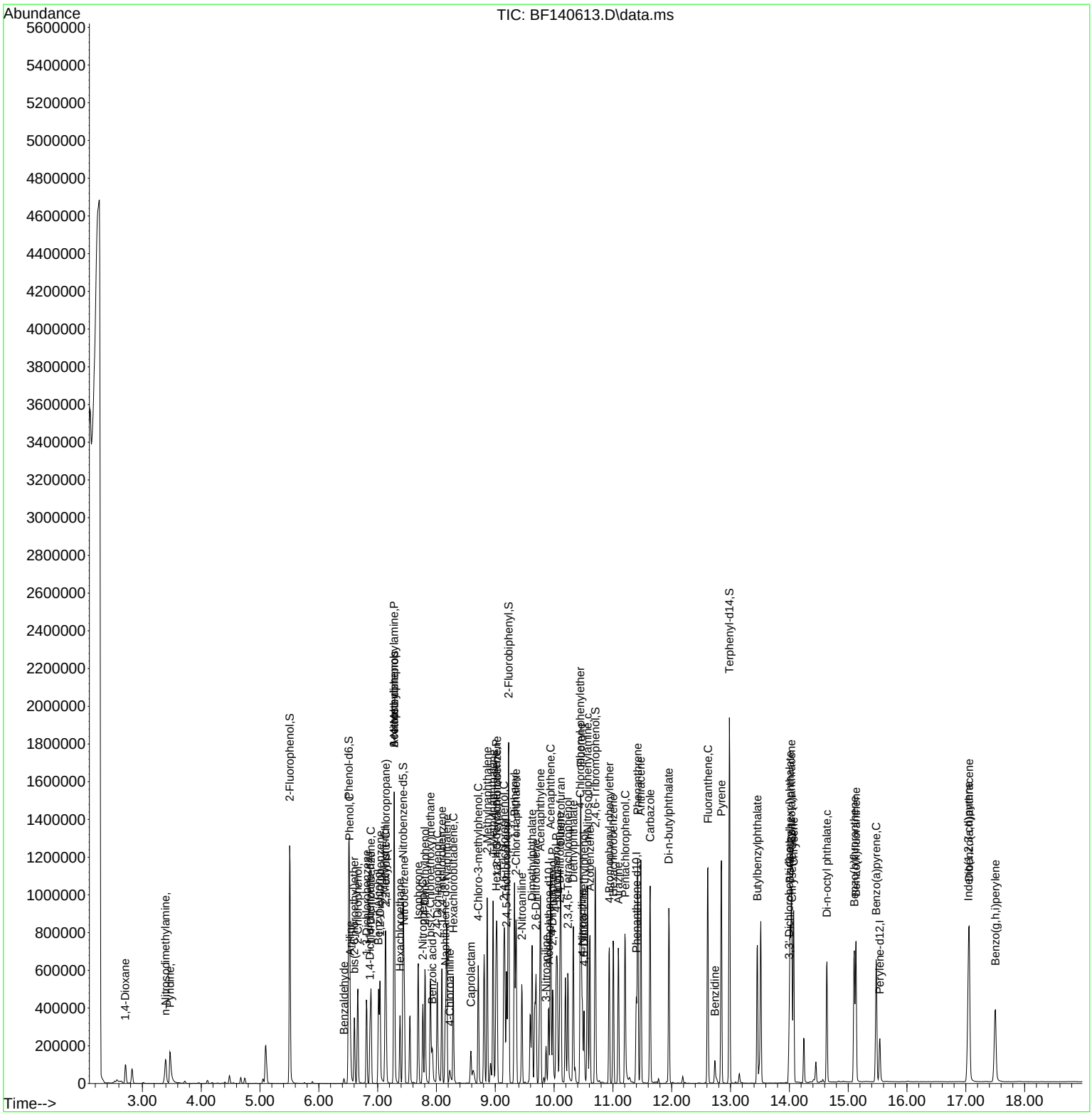
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 26 01:33:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 01:34:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	68388	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	250576	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	136071	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	265977	20.000	ng		0.00
76) Chrysene-d12	14.045	240	158457	20.000	ng		0.00
86) Perylene-d12	15.545	264	154128	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	487107	121.528	ng		0.00
7) Phenol-d6	6.510	99	588940	111.144	ng		0.00
23) Nitrobenzene-d5	7.433	82	441755	90.176	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	209536	143.982	ng		0.00
45) 2-Fluorobiphenyl	9.227	172	812987	89.020	ng		0.00
79) Terphenyl-d14	12.980	244	998992	98.169	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.716	88	61794	36.668	ng		98
3) Pyridine	3.469	79	136635	36.850	ng		99
4) n-Nitrosodimethylamine	3.398	42	86359	39.628	ng		94
6) Aniline	6.534	93	100493	26.944	ng	#	75
8) 2-Chlorophenol	6.663	128	180932	41.958	ng		95
9) Benzaldehyde	6.428	77	7953	2.835	ng		97
10) Phenol	6.522	94	207484	38.341	ng		92
11) bis(2-Chloroethyl)ether	6.604	93	170117	41.081	ng		99
12) 1,3-Dichlorobenzene	6.810	146	139108	28.709	ng		99
13) 1,4-Dichlorobenzene	6.886	146	144489	29.451	ng		99
14) 1,2-Dichlorobenzene	7.039	146	143897	31.301	ng		99
15) Benzyl Alcohol	7.016	79	178620	45.455	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	198751	40.626	ng		91
17) 2-Methylphenol	7.128	107	149816	43.401	ng		97
18) Hexachloroethane	7.381	117	51686	28.207	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	135806	43.366	ng		98
20) 3+4-Methylphenols	7.281	107	195530	44.070	ng		91
22) Acetophenone	7.281	105	262476	42.966	ng		98
24) Nitrobenzene	7.451	77	204116	40.315	ng		99
25) Isophorone	7.692	82	373232	45.679	ng		99
26) 2-Nitrophenol	7.769	139	97570	43.486	ng		100
27) 2,4-Dimethylphenol	7.804	122	152516m	56.812	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	219376	44.072	ng		99
29) 2,4-Dichlorophenol	8.016	162	165314	46.472	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	149998	36.931	ng		100
31) Naphthalene	8.175	128	516754	40.037	ng		99
32) Benzoic acid	7.928	122	98272	42.955	ng		99
33) 4-Chloroaniline	8.228	127	47085	12.184	ng		99
34) Hexachlorobutadiene	8.286	225	93509	34.759	ng		99
35) Caprolactam	8.586	113	45577m	41.401	ng		
36) 4-Chloro-3-methylphenol	8.710	107	183294	46.021	ng		98
37) 2-Methylnaphthalene	8.863	142	362690	44.242	ng		100
38) 1-Methylnaphthalene	8.963	142	334560	41.635	ng		99
40) 1,2,4,5-Tetrachloroben...	9.027	216	178801	44.886	ng		99
41) Hexachlorocyclopentadiene	9.016	237	135486	144.814	ng		97
43) 2,4,6-Trichlorophenol	9.145	196	119232	47.701	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 01:34:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	129606	47.776	ng	98
46) 1,1'-Biphenyl	9.327	154	464325	45.705	ng	99
47) 2-Chloronaphthalene	9.351	162	345698	44.908	ng	99
48) 2-Nitroaniline	9.451	65	122141	49.433	ng	99
49) Acenaphthylene	9.769	152	583694	50.185	ng	99
50) Dimethylphthalate	9.627	163	443335	49.471	ng	100
51) 2,6-Dinitrotoluene	9.692	165	95189	46.835	ng	96
52) Acenaphthene	9.939	154	355666	48.127	ng	98
53) 3-Nitroaniline	9.863	138	44625	22.449	ng	96
54) 2,4-Dinitrophenol	9.980	184	101741	95.027	ng	96
55) Dibenzofuran	10.116	168	543099	48.180	ng	99
56) 4-Nitrophenol	10.039	139	131867	97.270	ng	98
57) 2,4-Dinitrotoluene	10.098	165	136165	50.410	ng	96
58) Fluorene	10.457	166	432577	47.809	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	115986	55.632	ng	93
60) Diethylphthalate	10.327	149	445170	48.892	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	210620	47.433	ng	99
62) 4-Nitroaniline	10.480	138	103456	49.623	ng	98
63) Azobenzene	10.610	77	418948	48.588	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	72339	53.224	ng	98
66) n-Nitrosodiphenylamine	10.569	169	380471	48.371	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	125800	45.927	ng	98
68) Hexachlorobenzene	11.010	284	144983	45.712	ng	99
69) Atrazine	11.092	200	125336	56.642	ng	98
70) Pentachlorophenol	11.204	266	150143	107.558	ng	100
71) Phenanthrene	11.421	178	641827	50.201	ng	99
72) Anthracene	11.474	178	654706	52.350	ng	99
73) Carbazole	11.633	167	623193	51.798	ng	99
74) Di-n-butylphthalate	11.951	149	693409	49.921	ng	100
75) Fluoranthene	12.616	202	713438	51.395	ng	100
77) Benzidine	12.733	184	84067	18.247	ng	99
78) Pyrene	12.845	202	734707	50.146	ng	99
80) Butylbenzylphthalate	13.457	149	260689	49.392	ng	100
81) Benzo(a)anthracene	14.039	228	533478	50.860	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	80889	25.685	ng	96
83) Chrysene	14.074	228	477909	49.828	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	331820	49.789	ng	99
85) Di-n-octyl phthalate	14.645	149	476576	52.325	ng	98
87) Indeno(1,2,3-cd)pyrene	17.056	276	504658	50.243	ng	99
88) Benzo(b)fluoranthene	15.109	252	429558	44.371	ng	99
89) Benzo(k)fluoranthene	15.139	252	442743	52.261	ng	100
90) Benzo(a)pyrene	15.480	252	417691	53.064	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	414830	50.429	ng	99
92) Benzo(g,h,i)perylene	17.509	276	373682	44.517	ng	98

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

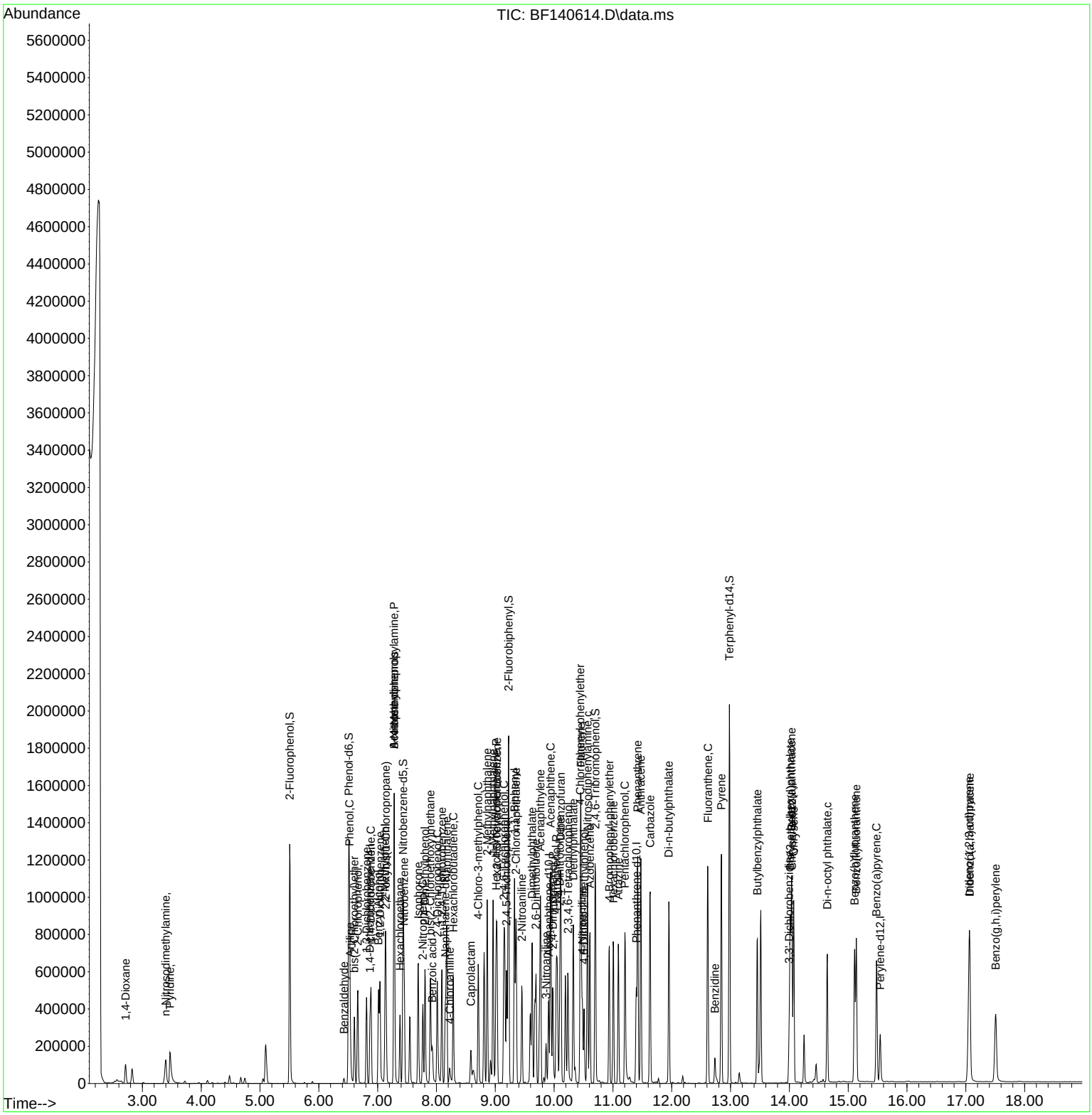
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:34:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



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

Manual Integration Report

Sequence:	BF112124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140530.D	Benzoic acid	yogesh	11/22/2024 3:53:18 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf112524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140590.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:26:43 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
SSTDCCC040	BF140604.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:03 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MS	BF140613.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:11 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MS	BF140613.D	Caprolactam	yogesh	11/27/2024 5:27:11 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MSD	BF140614.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:13 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MSD	BF140614.D	Caprolactam	yogesh	11/27/2024 5:27:13 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf112724	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140655.D	2,4-Dimethylphenol	yogesh	11/29/2024 12:45:59 AM	mohammad	11/29/2024 12:50:46 AM	Peak Integrated by Software
PB165144BS	BF140659.D	Caprolactam	yogesh	11/29/2024 12:46:01 AM	mohammad	11/29/2024 12:50:46 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 # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140526.D	21 Nov 2024 10:17	RC/JU	Ok
2	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	RC/JU	Not Ok
3	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13	RC/JU	Ok
4	SSTDICC005	BF140529.D	21 Nov 2024 11:39	RC/JU	Ok
5	SSTDICC010	BF140530.D	21 Nov 2024 12:05	RC/JU	Ok,M
6	SSTDICC020	BF140531.D	21 Nov 2024 12:32	RC/JU	Ok,M
7	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	RC/JU	Ok,M
8	SSTDICC050	BF140533.D	21 Nov 2024 13:25	RC/JU	Ok
9	SSTDICC060	BF140534.D	21 Nov 2024 13:51	RC/JU	Ok
10	SSTDICC080	BF140535.D	21 Nov 2024 14:18	RC/JU	Ok
11	SSTDICV040	BF140536.D	21 Nov 2024 15:07	RC/JU	Ok,M
12	PB165144BL	BF140537.D	21 Nov 2024 15:34	RC/JU	Ok
13	DFTPP	BF140538.D	21 Nov 2024 16:27	RC/JU	Ok
14	SSTDCCC040	BF140539.D	21 Nov 2024 16:54	RC/JU	Ok,M
15	PB165060TB	BF140540.D	21 Nov 2024 17:20	RC/JU	Ok
16	P4887-06	BF140541.D	21 Nov 2024 17:55	RC/JU	Ok
17	P4887-02	BF140542.D	21 Nov 2024 18:21	RC/JU	Ok
18	P4870-16	BF140543.D	21 Nov 2024 18:48	RC/JU	Ok
19	P4870-15	BF140544.D	21 Nov 2024 19:14	RC/JU	Ok
20	P4870-14	BF140545.D	21 Nov 2024 19:40	RC/JU	Ok
21	P4870-13	BF140546.D	21 Nov 2024 20:07	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 # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4929-02	BF140547.D	21 Nov 2024 20:33	RC/JU	Ok
23	P4924-04	BF140548.D	21 Nov 2024 20:59	RC/JU	Ok
24	P4921-01	BF140549.D	21 Nov 2024 21:25	RC/JU	Ok
25	P4916-12	BF140550.D	21 Nov 2024 21:51	RC/JU	Ok
26	P4916-08	BF140551.D	21 Nov 2024 22:18	RC/JU	Ok
27	P4916-04	BF140552.D	21 Nov 2024 22:44	RC/JU	Ok
28	P4887-01	BF140553.D	21 Nov 2024 23:10	RC/JU	Ok
29	P4916-09	BF140554.D	21 Nov 2024 23:36	RC/JU	Ok
30	P4916-09MS	BF140555.D	22 Nov 2024 00:02	RC/JU	Ok,M
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,M
32	P4916-01	BF140557.D	22 Nov 2024 00:54	RC/JU	Ok
33	P4916-05RE	BF140558.D	22 Nov 2024 01:21	RC/JU	Confirms
34	P4887-05RE	BF140559.D	22 Nov 2024 01:47	RC/JU	Confirms
35	P4924-01	BF140560.D	22 Nov 2024 02:13	RC/JU	ReRun
36	P4936-01	BF140561.D	22 Nov 2024 02:39	RC/JU	Ok,M
37	P4929-01	BF140562.D	22 Nov 2024 03:06	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 # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM				
SubDirectory	BF112524	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140589.D	25 Nov 2024 09:07	RC/JU	Ok
2	SSTDCCC040	BF140590.D	25 Nov 2024 09:33	RC/JU	Ok,M
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,M
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Ok,M
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,M
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,M
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,M
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,M
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,M
17	PB165052BL	BF140605.D	25 Nov 2024 16:17	RC/JU	Ok
18	P4947-01	BF140606.D	25 Nov 2024 16:49	RC/JU	Ok
19	P4892-04	BF140607.D	25 Nov 2024 17:15	RC/JU	Ok
20	P4860-09	BF140608.D	25 Nov 2024 17:41	RC/JU	Ok
21	P4860-01	BF140609.D	25 Nov 2024 18:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4960-01	BF140610.D	25 Nov 2024 18:34	RC/JU	Ok
23	P4960-05	BF140611.D	25 Nov 2024 19:00	RC/JU	Ok
24	P4892-03	BF140612.D	25 Nov 2024 19:26	RC/JU	Ok
25	P4892-03MS	BF140613.D	25 Nov 2024 19:52	RC/JU	Ok,M
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,M
27	P4860-06	BF140615.D	25 Nov 2024 20:45	RC/JU	Ok
28	P4860-09MS	BF140616.D	25 Nov 2024 21:11	RC/JU	Not Ok
29	P4860-09MSD	BF140617.D	25 Nov 2024 21:37	RC/JU	Not Ok
30	P4960-03	BF140618.D	25 Nov 2024 22:03	RC/JU	ReRun
31	P4860-10	BF140619.D	25 Nov 2024 22:29	RC/JU	ReRun
32	P4860-04	BF140620.D	25 Nov 2024 22:55	RC/JU	Ok
33	P4860-07	BF140621.D	25 Nov 2024 23:22	RC/JU	Ok
34	P4860-03	BF140622.D	25 Nov 2024 23:48	RC/JU	Ok
35	P4951-01	BF140623.D	26 Nov 2024 00:14	RC/JU	ReRun
36	P4954-01	BF140624.D	26 Nov 2024 00:40	RC/JU	Ok,M
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,M
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,M
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM				
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM				
SubDirectory	BF112724	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140654.D	27 Nov 2024 08:19	RC/JU	Ok
2	SSTDCCC040	BF140655.D	27 Nov 2024 08:47	RC/JU	Ok,M
3	PB165255BL	BF140656.D	27 Nov 2024 09:13	RC/JU	Ok
4	PB165255BS	BF140657.D	27 Nov 2024 09:38	RC/JU	Ok,M
5	PB165269BL	BF140658.D	27 Nov 2024 10:05	RC/JU	Ok
6	PB165144BS	BF140659.D	27 Nov 2024 10:30	RC/JU	Ok,M
7	PB165159TB	BF140660.D	27 Nov 2024 10:56	RC/JU	Ok
8	PB165269BS	BF140661.D	27 Nov 2024 11:22	RC/JU	Ok,M
9	PB165252TB	BF140662.D	27 Nov 2024 11:48	RC/JU	Ok
10	P4985-08	BF140663.D	27 Nov 2024 12:19	RC/JU	Ok
11	P4938-04	BF140664.D	27 Nov 2024 12:45	RC/JU	Ok
12	P4938-04MS	BF140665.D	27 Nov 2024 13:11	RC/JU	Ok,M
13	P4938-04MSD	BF140666.D	27 Nov 2024 13:38	RC/JU	Ok,M
14	P4985-01	BF140667.D	27 Nov 2024 14:04	RC/JU	Ok
15	P4985-01MS	BF140668.D	27 Nov 2024 14:30	RC/JU	Not Ok
16	P4985-01MSD	BF140669.D	27 Nov 2024 14:55	RC/JU	Not Ok
17	P4985-04	BF140670.D	27 Nov 2024 15:22	RC/JU	Ok
18	P4938-08	BF140671.D	27 Nov 2024 15:48	RC/JU	Ok
19	P4995-02	BF140672.D	27 Nov 2024 16:14	RC/JU	Ok
20	P5000-04	BF140673.D	27 Nov 2024 16:40	RC/JU	Ok
21	P5000-08	BF140674.D	27 Nov 2024 17:06	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM				
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM				
SubDirectory	BF112724	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4985-05	BF140675.D	27 Nov 2024 17:32	RC/JU	Ok
23	P5005-01	BF140676.D	27 Nov 2024 17:58	RC/JU	Ok,M
24	P5005-01MS	BF140677.D	27 Nov 2024 18:24	RC/JU	Ok,M
25	P5005-01MSD	BF140678.D	27 Nov 2024 18:50	RC/JU	Ok,M
26	P5019-01	BF140679.D	27 Nov 2024 19:16	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140526.D	21 Nov 2024 10:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF140529.D	21 Nov 2024 11:39	Compound#9,32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF140530.D	21 Nov 2024 12:05		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF140531.D	21 Nov 2024 12:32	Compound#32,41,54 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	Calibration failed for Benzidine	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BF140533.D	21 Nov 2024 13:25	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF140534.D	21 Nov 2024 13:51		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF140535.D	21 Nov 2024 14:18	Compound#9 removed from 80 ppm	RC/JU	Ok
11	SSTDICV040	ICVBF112124	BF140536.D	21 Nov 2024 15:07		RC/JU	Ok,M
12	PB165144BL	PB165144BL	BF140537.D	21 Nov 2024 15:34		RC/JU	Ok
13	DFTPP	DFTPP	BF140538.D	21 Nov 2024 16:27		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF140539.D	21 Nov 2024 16:54		RC/JU	Ok,M
15	PB165060TB	PB165060TB	BF140540.D	21 Nov 2024 17:20		RC/JU	Ok
16	P4887-06	MH-760	BF140541.D	21 Nov 2024 17:55		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4887-02	MH-739	BF140542.D	21 Nov 2024 18:21		RC/JU	Ok
18	P4870-16	TP-15	BF140543.D	21 Nov 2024 18:48		RC/JU	Ok
19	P4870-15	MH-736	BF140544.D	21 Nov 2024 19:14		RC/JU	Ok
20	P4870-14	MH-735	BF140545.D	21 Nov 2024 19:40		RC/JU	Ok
21	P4870-13	TP-1	BF140546.D	21 Nov 2024 20:07		RC/JU	Ok
22	P4929-02	ARS520	BF140547.D	21 Nov 2024 20:33		RC/JU	Ok
23	P4924-04	MH-4	BF140548.D	21 Nov 2024 20:59		RC/JU	Ok
24	P4921-01	WC-11-A-202411	BF140549.D	21 Nov 2024 21:25		RC/JU	Ok
25	P4916-12	TP-3-WC	BF140550.D	21 Nov 2024 21:51		RC/JU	Ok
26	P4916-08	TP-2-WC	BF140551.D	21 Nov 2024 22:18		RC/JU	Ok
27	P4916-04	TP-1-WC	BF140552.D	21 Nov 2024 22:44		RC/JU	Ok
28	P4887-01	MH-739	BF140553.D	21 Nov 2024 23:10		RC/JU	Ok
29	P4916-09	TP-3-WC	BF140554.D	21 Nov 2024 23:36		RC/JU	Ok
30	P4916-09MS	TP-3-WCMS	BF140555.D	22 Nov 2024 00:02		RC/JU	Ok,M
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,M
32	P4916-01	TP-1-WC	BF140557.D	22 Nov 2024 00:54		RC/JU	Ok
33	P4916-05RE	TP-2-WCRE	BF140558.D	22 Nov 2024 01:21	Internal Standard Fail	RC/JU	Confirms
34	P4887-05RE	MH-760RE	BF140559.D	22 Nov 2024 01:47	Internal Standard Fail	RC/JU	Confirms
35	P4924-01	MH-4	BF140560.D	22 Nov 2024 02:13	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P4936-01	PL-01-11202024	BF140561.D	22 Nov 2024 02:39	Internal Standard Fail	RC/JU	Ok,M
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	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 # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140589.D	25 Nov 2024 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140590.D	25 Nov 2024 09:33		RC/JU	Ok,M
3	PB165123TB	PB165123TB	BF140591.D	25 Nov 2024 09:59		RC/JU	Ok
4	PB165155BS	PB165155BS	BF140592.D	25 Nov 2024 10:25		RC/JU	Ok,M
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17		RC/JU	Ok,M
7	PB165111TB	PB165111TB	BF140595.D	25 Nov 2024 11:43		RC/JU	Ok
8	PB165052BS	PB165052BS	BF140596.D	25 Nov 2024 12:09		RC/JU	Ok,M
9	PB164986TB	PB164986TB	BF140597.D	25 Nov 2024 12:36		RC/JU	Ok
10	PB165152BS	PB165152BS	BF140598.D	25 Nov 2024 13:02		RC/JU	Ok,M
11	PB164886TB	PB164886TB	BF140599.D	25 Nov 2024 13:27		RC/JU	Ok
12	PB165152BSD	PB165152BSD	BF140600.D	25 Nov 2024 13:54		RC/JU	Ok,M
13	PB165152BL	PB165152BL	BF140601.D	25 Nov 2024 14:28		RC/JU	Ok
14	PB165185BS	PB165185BS	BF140602.D	25 Nov 2024 14:54		RC/JU	Ok,M
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49		RC/JU	Ok,M
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		RC/JU	Ok
18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4892-04	WB-310-SW	BF140607.D	25 Nov 2024 17:15		RC/JU	Ok
20	P4860-09	PH2-BOT-006	BF140608.D	25 Nov 2024 17:41		RC/JU	Ok
21	P4860-01	DUP-01	BF140609.D	25 Nov 2024 18:07		RC/JU	Ok
22	P4960-01	B1	BF140610.D	25 Nov 2024 18:34		RC/JU	Ok
23	P4960-05	SW3	BF140611.D	25 Nov 2024 19:00		RC/JU	Ok
24	P4892-03	WB-310-BOT	BF140612.D	25 Nov 2024 19:26		RC/JU	Ok
25	P4892-03MS	WB-310-BOTMS	BF140613.D	25 Nov 2024 19:52		RC/JU	Ok,M
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,M
27	P4860-06	PH2-BOT-009	BF140615.D	25 Nov 2024 20:45		RC/JU	Ok
28	P4860-09MS	PH2-BOT-006MS	BF140616.D	25 Nov 2024 21:11	MSD Not Ok	RC/JU	Not Ok
29	P4860-09MSD	PH2-BOT-006MSD	BF140617.D	25 Nov 2024 21:37	Internal Standard Fail	RC/JU	Not Ok
30	P4960-03	SW1	BF140618.D	25 Nov 2024 22:03	Internal Standard Fail	RC/JU	ReRun
31	P4860-10	PH2-BOT-005	BF140619.D	25 Nov 2024 22:29	Internal Standard Fail	RC/JU	ReRun
32	P4860-04	PH2-BOT-003	BF140620.D	25 Nov 2024 22:55		RC/JU	Ok
33	P4860-07	PH2-BOT-008	BF140621.D	25 Nov 2024 23:22		RC/JU	Ok
34	P4860-03	PH2-BOT-002	BF140622.D	25 Nov 2024 23:48		RC/JU	Ok
35	P4951-01	AU-05-112124	BF140623.D	26 Nov 2024 00:14	Internal Standard Fail	RC/JU	ReRun
36	P4954-01	TR-05-112124	BF140624.D	26 Nov 2024 00:40	Internal Standard Fail	RC/JU	Ok,M
37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,M
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	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 # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM		
SubDirectory	BF112724	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140654.D	27 Nov 2024 08:19		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140655.D	27 Nov 2024 08:47		RC/JU	Ok,M
3	PB165255BL	PB165255BL	BF140656.D	27 Nov 2024 09:13		RC/JU	Ok
4	PB165255BS	PB165255BS	BF140657.D	27 Nov 2024 09:38		RC/JU	Ok,M
5	PB165269BL	PB165269BL	BF140658.D	27 Nov 2024 10:05		RC/JU	Ok
6	PB165144BS	PB165144BS	BF140659.D	27 Nov 2024 10:30		RC/JU	Ok,M
7	PB165159TB	PB165159TB	BF140660.D	27 Nov 2024 10:56		RC/JU	Ok
8	PB165269BS	PB165269BS	BF140661.D	27 Nov 2024 11:22		RC/JU	Ok,M
9	PB165252TB	PB165252TB	BF140662.D	27 Nov 2024 11:48		RC/JU	Ok
10	P4985-08	MH-740-WC	BF140663.D	27 Nov 2024 12:19		RC/JU	Ok
11	P4938-04	MH-732	BF140664.D	27 Nov 2024 12:45		RC/JU	Ok
12	P4938-04MS	MH-732MS	BF140665.D	27 Nov 2024 13:11		RC/JU	Ok,M
13	P4938-04MSD	MH-732MSD	BF140666.D	27 Nov 2024 13:38		RC/JU	Ok,M
14	P4985-01	MH-756-WC	BF140667.D	27 Nov 2024 14:04		RC/JU	Ok
15	P4985-01MS	MH-756-WCMS	BF140668.D	27 Nov 2024 14:30	Recovery fail for many compound	RC/JU	Not Ok
16	P4985-01MSD	MH-756-WCMSD	BF140669.D	27 Nov 2024 14:55	MS not ok	RC/JU	Not Ok
17	P4985-04	MH-756-WC	BF140670.D	27 Nov 2024 15:22		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 # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM		
SubDirectory	BF112724	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4938-08	MH-734	BF140671.D	27 Nov 2024 15:48		RC/JU	Ok
19	P4995-02	001	BF140672.D	27 Nov 2024 16:14		RC/JU	Ok
20	P5000-04	MH-745	BF140673.D	27 Nov 2024 16:40		RC/JU	Ok
21	P5000-08	MH-733	BF140674.D	27 Nov 2024 17:06		RC/JU	Ok
22	P4985-05	MH-740-WC	BF140675.D	27 Nov 2024 17:32		RC/JU	Ok
23	P5005-01	STOCK-PILE	BF140676.D	27 Nov 2024 17:58		RC/JU	Ok,M
24	P5005-01MS	STOCK-PILEMS	BF140677.D	27 Nov 2024 18:24		RC/JU	Ok,M
25	P5005-01MSD	STOCK-PILEMSD	BF140678.D	27 Nov 2024 18:50		RC/JU	Ok,M
26	P5019-01	EO-02-11262024	BF140679.D	27 Nov 2024 19:16		RC/JU	Ok,M

M : Manual Integration

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Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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

TCLP Filter ID : 114771

Start Prep Date : 11/18/2024 **Time :** 16:00

End Prep Date : 11/19/2024 **Time :** 08:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Particle size reduction is not required. p4910-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 10:30	JP / TCLP Room	JZ / Met Dry
	Preparation Group	**Analysis Group** RS / EXT

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB165060

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4890-06	D3721	N/A	N/A	N/A	N/A	100	N/A
P4892-03	WB-310-BOT	N/A	N/A	N/A	N/A	100	N/A
P4893-04	MH-763	N/A	N/A	N/A	N/A	100	N/A
P4893-08	MH-762	N/A	N/A	N/A	N/A	100	N/A
P4910-04	MH-COTTAGE	N/A	N/A	N/A	N/A	100	N/A
P4910-08	MH-759	N/A	N/A	N/A	N/A	100	N/A
PB165060TB	LEB060	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB165060

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
P4890-06	D3721	5.02	96.5	6.2	2.5	#1	4.94
P4892-03	WB-310-BOT	5.03	96.5	8.6	3.5	#1	4.94
P4893-04	MH-763	5.02	96.5	8.6	3.5	#1	4.94
P4893-08	MH-762	5.01	96.5	8.0	3.0	#1	4.94
P4910-04	MH-COTTAGE	5.02	96.5	9.1	4.5	#1	4.94
P4910-08	MH-759	5.03	96.5	8.6	4.0	#1	4.94
PB165060TB	LEB060	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4892 **WorkList ID :** 185532 **Department :** TCLP Extraction **Date :** 11-18-2024 12:28:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4890-06	D3721	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		11/15/2024	1311
P4892-03	WB-310-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	M11	11/15/2024	1311
P4893-04	MH-763	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4893-08	MH-762	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4910-04	MH-COTTAGE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311
P4910-08	MH-759	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311

Date/Time 11-18-24 15:00
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 11-18-24 17:30
Raw Sample Received by:
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165144

8

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/20/2024

Extraction Start Time : 11:30

Extraction End Date : 11/20/2024

Extraction End Time : 16:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6681
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	E3829
Baked Na2SO4	N/A	EP2562
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. p H Adjusted<2 with 1:1 H2SO4 &>11 with 10N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RP (Set 1a3)	AC/SVOC
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165144

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165060TB	PB165060TB	TCLP BNA	1000	6	RUPESH	rajesh	1			SEP-01
PB165111TB	PB165111TB	TCLP BNA	100	6	RUPESH	rajesh	1			2
PB165123TB	PB165123TB	TCLP BNA	100	6	RUPESH	rajesh	1			3
PB165144BL	PB165144BL	TCLP BNA	1000	6	RUPESH	rajesh	1			4
PB165144BS	PB165144BS	TCLP BNA	1000	6	RUPESH	rajesh	1			5
P4892-03	WB-310-BOT	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
P4892-03MS	WB-310-BOTMS	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
P4892-03MSD	WB-310-BOTMSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
P4893-04	MH-763	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
P4893-08	MH-762	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
P4910-04	MH-COTTAGE	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
P4910-08	MH-759	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
P4916-04	TP-1-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
P4916-08	TP-2-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
P4916-12	TP-3-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		15
P4921-01	WC-11-A-202411	TCLP BNA	100	6	RUPESH	rajesh	1	A		16
P4924-04	MH-4	TCLP BNA	100	6	RUPESH	rajesh	1	A		SEP-01
P4925-04	MH-741	TCLP BNA	100	6	RUPESH	rajesh	1	A		2
P4925-08	MH-741	TCLP BNA	100	6	RUPESH	rajesh	1	A		3
P4929-02	ARS520	TCLP BNA	100	6	RUPESH	rajesh	1	A		4

* **Extracts relinquished on the same date as received.**

11/20/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165111

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
P4916-04	TP-1-WC	01	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
P4916-08	TP-2-WC	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4916-12	TP-3-WC	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4923-02	COMP-1	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4923-03	COMP-2	05	100.01	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4923-04	COMP-3	06	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4923-05	COMP-4	07	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4923-07	72-11991	08	100.04	2000	N/A	N/A	N/A	8.6	1.0	T-1
P4924-04	MH-4	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4925-04	MH-741	10	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
P4925-08	MH-741	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4929-02	ARS520	12	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-2
PB165111TB	LEB111	13	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

11/20/25

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165123

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
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

11/20/24

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB16506

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	Pr Pc
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/19/2024
10:30

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP BNA	8270E		11/20/24	11/25/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/20/24	11/25/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4892 **Order ID:** P4892

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	59.8 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108097.D	1	11/19/24 08:25	11/19/24 14:40	PB165082

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.70	U	5.70	28.4	ug/kg
11104-28-2	Aroclor-1221	10.7	U	10.7	28.4	ug/kg
11141-16-5	Aroclor-1232	5.70	U	5.70	28.4	ug/kg
53469-21-9	Aroclor-1242	5.70	U	5.70	28.4	ug/kg
12672-29-6	Aroclor-1248	13.2	U	13.2	28.4	ug/kg
11097-69-1	Aroclor-1254	4.60	U	4.60	28.4	ug/kg
37324-23-5	Aroclor-1262	7.60	U	7.60	28.4	ug/kg
11100-14-4	Aroclor-1268	5.70	U	5.70	28.4	ug/kg
11096-82-5	Aroclor-1260	4.90	U	4.90	28.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.7		30 (32) - 150 (144)	74%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		30 (32) - 150 (175)	74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	86.1 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
PO108098.D	1	11/19/24 08:25	11/19/24 14:57	PB165082

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	19.7	ug/kg
11104-28-2	Aroclor-1221	7.40	U	7.40	19.7	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	19.7	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.7	ug/kg
12672-29-6	Aroclor-1248	9.20	U	9.20	19.7	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	19.7	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	19.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.7	ug/kg
11096-82-5	Aroclor-1260	3.40	U	3.40	19.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.2		30 (32) - 150 (144)	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		30 (32) - 150 (175)	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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	485 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108157.D	1	11/20/24 08:35	11/20/24 21:49	PB165133

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.52	ug/L
11104-28-2	Aroclor-1221	0.24	U	0.24	0.52	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.52	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.52	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.52	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.52	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.52	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.52	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.52	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.7		30 (10) - 150 (157)	129%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.7		30 (10) - 150 (173)	124%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: P4892

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-PO108037.D	PIBLK-PO108037.D	Tetrachloro-m-xylene	1	20	21.2	106		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.2	116		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.5	112		70 (60)	130 (140)
I.BLK-PO108094.D	PIBLK-PO108094.D	Tetrachloro-m-xylene	1	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	25.5	128		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.5	108		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.9	114		70 (60)	130 (140)
P4892-01	WB-310-TOP	Tetrachloro-m-xylene	1	20	14.4	72		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	14.8	74		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	14.7	74		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	12.1	60		30 (32)	150 (175)
P4892-02	WB-310-BOT	Tetrachloro-m-xylene	1	20	19.2	96		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	21.5	108		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.8	94		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.5	93		30 (32)	150 (175)
P4893-01MS	MH-763MS	Tetrachloro-m-xylene	1	20	18.1	91		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	21.4	107		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	17.8	89		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.9	95		30 (32)	150 (175)
P4893-01MSD	MH-763MSD	Tetrachloro-m-xylene	1	20	17.9	90		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.0	110		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	17.8	89		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.6	93		30 (32)	150 (175)
I.BLK-PO108107.D	PIBLK-PO108107.D	Tetrachloro-m-xylene	1	20	22.1	111		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	26.3	131	*	70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.8	109		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.7	114		70 (60)	130 (140)
I.BLK-PO108123.D	PIBLK-PO108123.D	Tetrachloro-m-xylene	1	20	22.9	115		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	26.1	131	*	70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.3	112		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.2	116		70 (60)	130 (140)
PB165082BL	PB165082BL	Tetrachloro-m-xylene	1	20	23.1	116		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	26.0	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	22.4	112		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.2	116		30 (32)	150 (175)
PB165082BS	PB165082BS	Tetrachloro-m-xylene	1	20	23.2	116		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.9	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.9	115		30 (32)	150 (175)
I.BLK-PO108138.D	PIBLK-PO108138.D	Tetrachloro-m-xylene	1	20	22.9	115		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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

SDG No.: P4892

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-PO108138.D	PIBLK-PO108138.D	Decachlorobiphenyl	1	20	26.1	130		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.4	112		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.1	115		70 (60)	130 (140)
I.BLK-PO108153.D	PIBLK-PO108153.D	Tetrachloro-m-xylene	1	20	23.1	116		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	25.0	125		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	23.2	116		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.0	110		70 (60)	130 (140)
PB165133BL	PB165133BL	Tetrachloro-m-xylene	1	20	21.7	108		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	23.8	119		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	20.9	105		30 (10)	150 (173)
PB165133BS	PB165133BS	Tetrachloro-m-xylene	1	20	22.1	111		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	23.9	120		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	20.9	104		30 (10)	150 (173)
PB165133BSD	PB165133BSD	Tetrachloro-m-xylene	1	20	22.2	111		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	23.7	119		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	20.9	104		30 (10)	150 (173)
P4892-04	WB-310-SW	Tetrachloro-m-xylene	1	20	25.7	129		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	24.7	124		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	25.5	128		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	22.0	110		30 (10)	150 (173)
I.BLK-PO108163.D	PIBLK-PO108163.D	Tetrachloro-m-xylene	1	20	23.4	117		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	26.2	131	*	70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	23.2	116		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.3	117		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO108100.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:	**MH-763MS**											
P4893-01MS	AR1016	191.4	0	184	ug/kg	96				40 (55)	140 (146)	
	AR1260	191.4	0	190	ug/kg	99				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO108101.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:	**MH-763MSD**											
P4893-01MSD	AR1016	191.1	0	183	ug/kg	96		0		40 (55)	140 (146)	30 (20)
	AR1260	191.1	0	192	ug/kg	100		1		40 (45)	140 (144)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO108125.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165082BS	AR1016	166.5	171	ug/kg	103				40 (71)	140 (120)	
	AR1260	166.5	173	ug/kg	104				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO108155.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165133BS	AR1016	5	4.90	ug/L	98				40 (61)	140 (112)	
	AR1260	5	4.90	ug/L	98				40 (66)	140 (113)	

( ) = 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.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO108156.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165133BSD	AR1016	5	4.90	ug/L	98	0			40 (61)	140 (112)	20 (20)
	AR1260	5	4.90	ug/L	98	0			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165082BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: PB165082BL Lab File ID: PO108124.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/19/2024

Date Analyzed (1): 11/20/2024 Date Analyzed (2): 11/20/2024

Time Analyzed (1): 11:12 Time Analyzed (2): 11:12

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
WB-310-TOP	P4892-01	PO108097.D	11/19/2024	11/19/2024
WB-310-BOT	P4892-02	PO108098.D	11/19/2024	11/19/2024
MH-763MS	P4893-01MS	PO108100.D	11/19/2024	11/19/2024
MH-763MSD	P4893-01MSD	PO108101.D	11/19/2024	11/19/2024
PB165082BS	PB165082BS	PO108125.D	11/20/2024	11/20/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165133BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: PB165133BL Lab File ID: PO108154.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/20/2024

Date Analyzed (1): 11/20/2024 Date Analyzed (2): 11/20/2024

Time Analyzed (1): 21:00 Time Analyzed (2): 21:00

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
PB165133BS	PB165133BS	PO108155.D	11/20/2024	11/20/2024
PB165133BSD	PB165133BSD	PO108156.D	11/20/2024	11/20/2024
WB-310-SW	P4892-04	PO108157.D	11/20/2024	11/20/2024

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165082BL	SDG No.:	P4892
Lab Sample ID:	PB165082BL	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
PO108124.D	1	11/19/24 08:25	11/20/24 11:12	PB165082

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	23.1		30 (32) - 150 (144)	116%	SPK: 20
2051-24-3	Decachlorobiphenyl	26.0		30 (32) - 150 (175)	130%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165133BL	SDG No.:	P4892
Lab Sample ID:	PB165133BL	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
PO108154.D	1	11/20/24 08:35	11/20/24 21:00	PB165133

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	21.7		30 (10) - 150 (157)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		30 (10) - 150 (173)	119%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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B = Analyte Found in Associated Method Blank
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* = 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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/18/24
Client Sample ID:	PIBLK-PO108037.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108037.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
PO108037.D	1		11/18/24	PO111824

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	21.0		70 (60) - 130 (140)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.5		70 (60) - 130 (140)	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

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/19/24
Client Sample ID:	PIBLK-PO108094.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108094.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
PO108094.D	1		11/19/24	PO111924

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	21.5		70 (60) - 130 (140)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.9		70 (60) - 130 (140)	114%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/19/24
Client Sample ID:	PIBLK-PO108107.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108107.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
PO108107.D	1		11/19/24	PO111924

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	21.8		70 (60) - 130 (140)	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.7		70 (60) - 130 (140)	114%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PIBLK-PO108123.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108123.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
PO108123.D	1		11/20/24	PO112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		70 (60) - 130 (140)	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.2		70 (60) - 130 (140)	116%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PIBLK-PO108138.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108138.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
PO108138.D	1		11/20/24	PO112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.4		70 (60) - 130 (140)	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		70 (60) - 130 (140)	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PIBLK-PO108153.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108153.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
PO108153.D	1		11/20/24	PO112024

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	23.1		70 (60) - 130 (140)	116%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.0		70 (60) - 130 (140)	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
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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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/21/24
Client Sample ID:	PIBLK-PO108163.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PO108163.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
PO108163.D	1		11/21/24	PO112024

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	23.2		70 (60) - 130 (140)	116%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		70 (60) - 130 (140)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165082BS	SDG No.:	P4892
Lab Sample ID:	PB165082BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108125.D	1	11/19/24 08:25	11/20/24 11:29	PB165082

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	171		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	173		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.2		30 (32) - 150 (144)	116%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.9		30 (32) - 150 (175)	130%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165133BS	SDG No.:	P4892
Lab Sample ID:	PB165133BS	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
PO108155.D	1	11/20/24 08:35	11/20/24 21:16	PB165133

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.90		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.90		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		30 (10) - 150 (157)	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.9		30 (10) - 150 (173)	120%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165133BSD	SDG No.:	P4892
Lab Sample ID:	PB165133BSD	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
PO108156.D	1	11/20/24 08:35	11/20/24 21:33	PB165133

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.90		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.90		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.2		30 (10) - 150 (157)	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.7		30 (10) - 150 (173)	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
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/16/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/18/24
Client Sample ID:	MH-763MS	SDG No.:	P4892
Lab Sample ID:	P4893-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108100.D	1	11/19/24 08:25	11/19/24 15:30	PB165082

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	184		3.90	19.5	ug/kg
11104-28-2	Aroclor-1221	7.40	U	7.40	19.5	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	19.5	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.5	ug/kg
12672-29-6	Aroclor-1248	9.10	U	9.10	19.5	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.5	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	19.5	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.5	ug/kg
11096-82-5	Aroclor-1260	190		3.30	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		30 (32) - 150 (144)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.4		30 (32) - 150 (175)	107%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/16/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/18/24
Client Sample ID:	MH-763MSD	SDG No.:	P4892
Lab Sample ID:	P4893-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87 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
PO108101.D	1	11/19/24 08:25	11/19/24 15:47	PB165082

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	183		3.90	19.5	ug/kg
11104-28-2	Aroclor-1221	7.30	U	7.30	19.5	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	19.5	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.5	ug/kg
12672-29-6	Aroclor-1248	9.00	U	9.00	19.5	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.5	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	19.5	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.5	ug/kg
11096-82-5	Aroclor-1260	192		3.30	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.9		30 (32) - 150 (144)	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.0		30 (32) - 150 (175)	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

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Calibration Date(s):** 11/18/2024 11/18/2024

Calibration Times: 15:32 22:51

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO108038.D RT 750 = PO108039.D

RT 500 = PO108040.D RT 250 = PO108041.D RT 050 = PO108042.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.53	5.53	5.53	5.52	5.53	5.53	5.43	5.63
Aroclor-1016-2	(2)	5.55	5.55	5.55	5.55	5.55	5.55	5.45	5.65
Aroclor-1016-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1016-4	(4)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1016-5	(5)	6.01	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1260-1	(1)	7.14	7.14	7.14	7.14	7.14	7.14	7.04	7.24
Aroclor-1260-2	(2)	7.40	7.39	7.40	7.39	7.39	7.39	7.29	7.49
Aroclor-1260-3	(3)	7.76	7.76	7.76	7.76	7.76	7.76	7.66	7.86
Aroclor-1260-4	(4)	7.98	7.98	7.98	7.98	7.98	7.98	7.88	8.08
Aroclor-1260-5	(5)	8.30	8.30	8.30	8.30	8.30	8.30	8.20	8.40
Decachlorobiphenyl		10.09	10.09	10.09	10.09	10.09	10.09	9.99	10.19
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1242-1	(1)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1242-2	(2)	5.55	5.55	5.55	5.55	5.55	5.55	5.45	5.65
Aroclor-1242-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1242-4	(4)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1242-5	(5)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Decachlorobiphenyl		10.09	10.09	10.09	10.09	10.09	10.09	9.99	10.19
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1248-1	(1)	5.53	5.52	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1248-2	(2)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1248-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1248-4	(4)	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
Aroclor-1248-5	(5)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Decachlorobiphenyl		10.09	10.09	10.09	10.09	10.09	10.09	9.99	10.19
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1254-1	(1)	6.38	6.38	6.38	6.38	6.38	6.38	6.28	6.48
Aroclor-1254-2	(2)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1254-3	(3)	6.97	6.97	6.97	6.97	6.97	6.97	6.87	7.07
Aroclor-1254-4	(4)	7.26	7.26	7.25	7.26	7.25	7.26	7.16	7.36
Aroclor-1254-5	(5)	7.68	7.68	7.68	7.68	7.68	7.68	7.58	7.78
Decachlorobiphenyl		10.09	10.09	10.09	10.09	10.09	10.09	9.99	10.19
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1268-1	(1)	8.61	8.61	8.61	8.61	8.61	8.61	8.51	8.71
Aroclor-1268-2	(2)	8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Aroclor-1268-3	(3)	8.93	8.93	8.93	8.93	8.93	8.93	8.83	9.03
Aroclor-1268-4	(4)	9.34	9.34	9.34	9.34	9.34	9.34	9.24	9.44
Aroclor-1268-5	(5)	9.76	9.76	9.75	9.75	9.75	9.75	9.65	9.85

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.09	10.09	10.09	10.09	10.09	10.09	9.99	10.19
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Calibration Date(s):** 11/18/2024 11/18/2024

Calibration Times: 15:32 22:51

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO108038.D RT 750 = PO108039.D

RT 500 = PO108040.D RT 250 = PO108041.D RT 050 = PO108042.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Aroclor-1016-2	(2)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1016-3	(3)	4.91	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.17	5.17	5.17	5.17	5.17	5.17	5.07	5.27
Aroclor-1260-1	(1)	6.20	6.20	6.20	6.20	6.20	6.20	6.10	6.30
Aroclor-1260-2	(2)	6.39	6.39	6.39	6.39	6.39	6.39	6.29	6.49
Aroclor-1260-3	(3)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1260-4	(4)	7.01	7.01	7.01	7.01	7.01	7.01	6.91	7.11
Aroclor-1260-5	(5)	7.25	7.25	7.25	7.25	7.25	7.25	7.15	7.35
Decachlorobiphenyl		8.64	8.63	8.64	8.63	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1242-1	(1)	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Aroclor-1242-2	(2)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1242-3	(3)	4.91	4.91	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-4	(4)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1242-5	(5)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Decachlorobiphenyl		8.63	8.63	8.63	8.64	8.64	8.63	8.53	8.73
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1248-1	(1)	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Aroclor-1248-2	(2)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-3	(3)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-4	(4)	5.17	5.17	5.17	5.17	5.17	5.17	5.07	5.27
Aroclor-1248-5	(5)	5.56	5.56	5.56	5.56	5.56	5.56	5.46	5.66
Decachlorobiphenyl		8.64	8.63	8.64	8.63	8.64	8.63	8.53	8.73
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1254-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1254-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-3	(3)	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Aroclor-1254-4	(4)	6.30	6.30	6.30	6.30	6.30	6.30	6.20	6.40
Aroclor-1254-5	(5)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Decachlorobiphenyl		8.64	8.64	8.63	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1268-1	(1)	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
Aroclor-1268-2	(2)	7.60	7.60	7.60	7.60	7.60	7.60	7.50	7.70
Aroclor-1268-3	(3)	7.81	7.81	7.81	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-4	(4)	8.09	8.09	8.09	8.09	8.09	8.09	7.99	8.19
Aroclor-1268-5	(5)	8.38	8.38	8.38	8.38	8.38	8.38	8.28	8.48

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.63	8.63	8.63	8.63	8.53	8.73
Tetrachloro-m-xylene	3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Calibration Date(s):** 11/18/2024 11/18/2024

Calibration Times: 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PO108038.D CF 750 = PO108039.D

CF 500 = PO108040.D CF 250 = PO108041.D CF 050 = PO108042.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	246762638	255183097	267973476	283317680	291399940	268927366	7
Aroclor-1016-2	(2)	361906701	371340893	387074982	408562964	409480900	387673288	6
Aroclor-1016-3	(3)	222622001	230895227	242997188	262828576	290224400	249913478	11
Aroclor-1016-4	(4)	180908655	187263399	196564780	208828236	202781360	195269286	6
Aroclor-1016-5	(5)	172054377	178657919	188464708	198508344	189466020	185430274	6
Aroclor-1260-1	(1)	247038034	257258523	276155998	300356752	291432540	274448369	8
Aroclor-1260-2	(2)	272689813	275156095	291862946	311284092	264022160	283003021	7
Aroclor-1260-3	(3)	196571881	200863216	216965512	232635324	227109120	214829011	7
Aroclor-1260-4	(4)	206067217	211502581	224665900	236880824	230926000	222008504	6
Aroclor-1260-5	(5)	361568828	367344987	386082756	401302256	391367100	381533185	4
Decachlorobiphenyl		2788452830	2899237187	3078698780	3257210480	3247383800	3054196615	7
Tetrachloro-m-xylene		8465605050	8620290680	8898313680	9030365440	8515879800	8706090930	3
Aroclor-1242-1	(1)	202566328	209266423	216968960	226834060	251201700	221367494	9
Aroclor-1242-2	(2)	292414213	300976153	306906846	326944128	345266040	314501476	7
Aroclor-1242-3	(3)	180504553	188122379	204296224	206704844	232713180	202468236	10
Aroclor-1242-4	(4)	145573082	151871127	147856924	161129744	174130240	156112223	7
Aroclor-1242-5	(5)	141458429	150487075	174887798	165575256	171811960	160844104	9
Decachlorobiphenyl		2883024050	2993599120	3112238920	3347716960	3290585400	3125432890	6
Tetrachloro-m-xylene		8474998350	8554163053	8448632340	8865007800	8445940200	8557748349	2
Aroclor-1248-1	(1)	159118922	161357184	172663464	181852748	193964860	173791436	8
Aroclor-1248-2	(2)	223667475	232366575	244148502	257041984	245312320	240507371	5
Aroclor-1248-3	(3)	235052357	249913948	255721754	270339584	271390180	256483565	6
Aroclor-1248-4	(4)	254865791	270625609	276970026	290980956	271389120	272966300	5
Aroclor-1248-5	(5)	250852362	264749787	277140996	291546208	270671600	270992191	6
Decachlorobiphenyl		3055844430	3212426880	3323854080	3502784880	3470872200	3313156494	6
Tetrachloro-m-xylene		8617109190	8960264667	8973068820	9149151720	8598975400	8859713959	3
Aroclor-1254-1	(1)	252273984	264379132	273757404	293053280	301432280	276979216	7
Aroclor-1254-2	(2)	370718764	381771509	401517756	431022924	452397520	407485695	8
Aroclor-1254-3	(3)	371029833	378293709	395728354	413498008	404266220	392563225	5
Aroclor-1254-4	(4)	258988770	265852057	279911766	295707108	295222320	279136404	6
Aroclor-1254-5	(5)	253254357	260982649	273964622	289085188	263893220	268236007	5
Decachlorobiphenyl		3053184730	3175475907	3371258020	3559677880	3473166600	3326552627	6
Tetrachloro-m-xylene		8676286000	8781692213	9032518320	9252845040	8520211800	8852710675	3
Aroclor-1268-1	(1)	470799605	475917148	498858234	526027740	502833980	494887341	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	426122965	429724292	449577094	474735796	444314960	444895021	4
Aroclor-1268-3	(3)	347803598	350738465	369541246	388683644	373678420	366089075	5
Aroclor-1268-4	(4)	159396827	162304215	169881814	178873580	168510400	167793367	5
Aroclor-1268-5	(5)	1064152927	1072377252	1107204992	1148173928	1104978940	1099377608	3
Decachlorobiphenyl		5130801040	5235509600	5479770240	5801588440	5574999800	5444533824	5
Tetrachloro-m-xylene		8604281960	8613628107	8840909600	9045256040	8253129800	8671441101	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Calibration Date(s):** 11/18/2024 11/18/2024

Calibration Times: 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PO108038.D CF 750 = PO108039.D

CF 500 = PO108040.D CF 250 = PO108041.D CF 050 = PO108042.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	106788150	108798153	111718164	113509520	105554920	109273781	3
Aroclor-1016-2	(2)	152123024	154097571	158326228	159327316	140638080	152902444	5
Aroclor-1016-3	(3)	80988346	82315700	85055114	86482700	75979360	82164244	5
Aroclor-1016-4	(4)	61290280	63322112	65890902	67513476	60347000	63672754	5
Aroclor-1016-5	(5)	83859555	84976180	88574978	90258120	85814880	86696743	3
Aroclor-1260-1	(1)	157781272	160281296	165675998	168803692	157161680	161940788	3
Aroclor-1260-2	(2)	193178496	195374557	201955632	205123576	188687800	196864012	3
Aroclor-1260-3	(3)	183308515	185530125	190617304	192222592	178946180	186124943	3
Aroclor-1260-4	(4)	158006285	159976592	164422288	165515456	152052260	159994576	3
Aroclor-1260-5	(5)	397600161	398299031	405738120	401770156	360054820	392692458	5
Decachlorobiphenyl		3329333650	3376455133	3495318160	3542281840	3265178400	3401713437	3
Tetrachloro-m-xylene		3460288000	3499045520	3533194380	3490778200	2968782600	3390417740	7
Aroclor-1242-1	(1)	87969741	88248992	87758754	93432100	85060960	88494109	3
Aroclor-1242-2	(2)	124351775	125884719	122342024	129672256	115828860	123615927	4
Aroclor-1242-3	(3)	66089426	66658731	64420492	69305104	64944480	66283647	3
Aroclor-1242-4	(4)	61409091	62399051	61772248	66049176	61264060	62578725	3
Aroclor-1242-5	(5)	80580818	81655216	82065824	87619560	85982300	83580744	4
Decachlorobiphenyl		3376553600	3460953067	3489794800	3599195960	3335440400	3452387565	3
Tetrachloro-m-xylene		3506478780	3524758680	3390143240	3493295680	3130140400	3408963356	5
Aroclor-1248-1	(1)	67026994	69560969	69998122	71628912	68826780	69408355	2
Aroclor-1248-2	(2)	89376189	93801245	94712640	97706412	91207920	93360881	3
Aroclor-1248-3	(3)	94788893	98911040	100115740	103278720	96514280	98721735	3
Aroclor-1248-4	(4)	115527324	120128197	120921898	125233548	119364180	120235029	3
Aroclor-1248-5	(5)	119804627	123323009	123889724	128054636	128073460	124629091	3
Decachlorobiphenyl		3528559440	3596963560	3616896320	3663454400	3377244800	3556623704	3
Tetrachloro-m-xylene		3528541860	3631159893	3583888800	3559804240	3171920200	3495062999	5
Aroclor-1254-1	(1)	174289834	176158589	180893068	186013588	167948420	177060700	4
Aroclor-1254-2	(2)	150108724	152943737	157672006	163048368	154480520	155650671	3
Aroclor-1254-3	(3)	256239069	259520284	265457534	269328112	244789800	259066960	4
Aroclor-1254-4	(4)	157049736	150166115	151648294	150255064	114987000	144821242	12
Aroclor-1254-5	(5)	226514935	228906973	235035164	238147696	216555420	229032038	4
Decachlorobiphenyl		3488739090	3567821253	3665438080	3726867560	3437434800	3577260157	3
Tetrachloro-m-xylene		3561296690	3571149600	3637431600	3609953440	3188991400	3513764546	5
Aroclor-1268-1	(1)	503786717	502542995	506955678	510483304	449116600	494577059	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	474790608	472331845	474584838	476025240	407711300	461088766	6
Aroclor-1268-3	(3)	398042300	395049041	397077938	397623440	338330320	385224608	7
Aroclor-1268-4	(4)	165026234	165243123	167676480	171057252	157015720	165203762	3
Aroclor-1268-5	(5)	1353304001	1345522504	1338264668	1326360488	1125948300	1297879992	7
Decachlorobiphenyl		6035126950	6057706560	6116207360	6217717120	5517400400	5988831678	5
Tetrachloro-m-xylene		3503890680	3480404160	3510527020	3509133960	2981330200	3397057204	7

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Date(s) Analyzed:** 11/18/2024 11/18/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.57	4.47	4.67	108422000
		2	4.66	4.56	4.76	80468200
		3	4.73	4.63	4.83	233076000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	171958000
		2	5.26	5.16	5.36	94164000
		3	5.55	5.45	5.65	161766000
		4	5.71	5.61	5.81	76393000
		5	5.80	5.70	5.90	52874400
Aroclor-1262	500	1	7.76	7.66	7.86	323292000
		2	8.30	8.20	8.40	449988000
		3	8.61	8.51	8.71	288986000
		4	8.70	8.60	8.80	223132000
		5	9.34	9.24	9.44	152022000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_O **Date(s) Analyzed:** 11/18/2024 11/18/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.85	3.75	3.95	35476800
		2	3.94	3.84	4.04	29137000
		3	4.01	3.91	4.11	89032800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.01	3.91	4.11	63710600
		2	4.74	4.64	4.84	64827200
		3	4.91	4.81	5.01	33220400
		4	5.00	4.90	5.10	30291200
		5	5.17	5.07	5.27	31376600
Aroclor-1262	500	1	6.75	6.65	6.85	227544000
		2	7.25	7.15	7.35	426902000
		3	7.54	7.44	7.64	165111000
		4	7.60	7.50	7.70	317924000
		5	8.09	7.99	8.19	148021000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.01	6.00	5.90	6.10	-0.01
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.40	7.40	7.30	7.50	0.00
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.99	7.98	7.88	8.08	-0.01
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.10	10.09	9.99	10.19	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/19/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108090.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.527	5.425	5.625	517.960	500.000	3.6
Aroclor-1016-2	5.549	5.447	5.647	518.210	500.000	3.6
Aroclor-1016-3	5.612	5.510	5.710	508.200	500.000	1.6
Aroclor-1016-4	5.709	5.607	5.807	522.050	500.000	4.4
Aroclor-1016-5	6.005	5.904	6.104	523.510	500.000	4.7
Aroclor-1260-1	7.139	7.037	7.237	519.840	500.000	4.0
Aroclor-1260-2	7.396	7.295	7.495	548.610	500.000	9.7
Aroclor-1260-3	7.760	7.658	7.858	530.810	500.000	6.2
Aroclor-1260-4	7.985	7.884	8.084	543.060	500.000	8.6
Aroclor-1260-5	8.300	8.198	8.398	545.640	500.000	9.1
Decachlorobiphenyl	10.095	9.991	10.191	53.260	50.000	6.5
Tetrachloro-m-xylene	4.372	4.270	4.470	53.000	50.000	6.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/19/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108090.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.720	4.620	4.820	514.990	500.000	3.0
Aroclor-1016-2	4.739	4.639	4.839	523.120	500.000	4.6
Aroclor-1016-3	4.915	4.815	5.015	524.490	500.000	4.9
Aroclor-1016-4	4.957	4.856	5.056	517.640	500.000	3.5
Aroclor-1016-5	5.170	5.070	5.270	525.250	500.000	5.1
Aroclor-1260-1	6.201	6.100	6.300	517.640	500.000	3.5
Aroclor-1260-2	6.389	6.288	6.488	519.540	500.000	3.9
Aroclor-1260-3	6.542	6.441	6.641	516.100	500.000	3.2
Aroclor-1260-4	7.013	6.912	7.112	518.930	500.000	3.8
Aroclor-1260-5	7.254	7.154	7.354	520.740	500.000	4.1
Decachlorobiphenyl	8.634	8.535	8.735	50.730	50.000	1.5
Tetrachloro-m-xylene	3.639	3.539	3.739	52.510	50.000	5.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 16:34 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.53	5.43	5.63	0.01
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.39	7.40	7.30	7.50	0.01
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.98	7.98	7.88	8.08	0.00
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.09	10.09	9.99	10.19	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 16:34 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.01
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/19/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108103.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.524	5.425	5.625	515.170	500.000	3.0
Aroclor-1016-2	5.547	5.447	5.647	520.530	500.000	4.1
Aroclor-1016-3	5.610	5.510	5.710	508.600	500.000	1.7
Aroclor-1016-4	5.707	5.607	5.807	522.040	500.000	4.4
Aroclor-1016-5	6.003	5.904	6.104	530.110	500.000	6.0
Aroclor-1260-1	7.136	7.037	7.237	525.910	500.000	5.2
Aroclor-1260-2	7.394	7.295	7.495	559.580	500.000	11.9
Aroclor-1260-3	7.756	7.658	7.858	539.160	500.000	7.8
Aroclor-1260-4	7.982	7.884	8.084	548.890	500.000	9.8
Aroclor-1260-5	8.298	8.198	8.398	552.520	500.000	10.5
Decachlorobiphenyl	10.092	9.991	10.191	53.750	50.000	7.5
Tetrachloro-m-xylene	4.370	4.270	4.470	52.920	50.000	5.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/19/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108103.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.719	4.620	4.820	512.440	500.000	2.5
Aroclor-1016-2	4.737	4.639	4.839	521.260	500.000	4.3
Aroclor-1016-3	4.914	4.815	5.015	520.400	500.000	4.1
Aroclor-1016-4	4.955	4.856	5.056	515.180	500.000	3.0
Aroclor-1016-5	5.168	5.070	5.270	519.470	500.000	3.9
Aroclor-1260-1	6.199	6.100	6.300	517.700	500.000	3.5
Aroclor-1260-2	6.387	6.288	6.488	515.130	500.000	3.0
Aroclor-1260-3	6.541	6.441	6.641	512.730	500.000	2.5
Aroclor-1260-4	7.012	6.912	7.112	513.710	500.000	2.7
Aroclor-1260-5	7.253	7.154	7.354	513.270	500.000	2.7
Decachlorobiphenyl	8.633	8.535	8.735	49.900	50.000	-0.2
Tetrachloro-m-xylene	3.637	3.539	3.739	52.380	50.000	4.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 09:21 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.01	6.00	5.90	6.10	-0.01
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.40	7.40	7.30	7.50	0.00
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.99	7.98	7.88	8.08	-0.01
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.10	10.09	9.99	10.19	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 09:21 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108119.D **Time Analyzed:** 09:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.528	5.425	5.625	491.220	500.000	-1.8
Aroclor-1016-2	5.550	5.447	5.647	494.320	500.000	-1.1
Aroclor-1016-3	5.612	5.510	5.710	476.060	500.000	-4.8
Aroclor-1016-4	5.710	5.607	5.807	483.320	500.000	-3.3
Aroclor-1016-5	6.006	5.904	6.104	495.840	500.000	-0.8
Aroclor-1260-1	7.141	7.037	7.237	511.610	500.000	2.3
Aroclor-1260-2	7.399	7.295	7.495	544.230	500.000	8.8
Aroclor-1260-3	7.762	7.658	7.858	518.550	500.000	3.7
Aroclor-1260-4	7.987	7.884	8.084	530.680	500.000	6.1
Aroclor-1260-5	8.303	8.198	8.398	539.820	500.000	8.0
Decachlorobiphenyl	10.098	9.991	10.191	53.340	50.000	6.7
Tetrachloro-m-xylene	4.372	4.270	4.470	51.090	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108119.D **Time Analyzed:** 09:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.720	4.620	4.820	523.940	500.000	4.8
Aroclor-1016-2	4.738	4.639	4.839	527.440	500.000	5.5
Aroclor-1016-3	4.914	4.815	5.015	528.130	500.000	5.6
Aroclor-1016-4	4.956	4.856	5.056	517.930	500.000	3.6
Aroclor-1016-5	5.169	5.070	5.270	531.540	500.000	6.3
Aroclor-1260-1	6.201	6.100	6.300	525.860	500.000	5.2
Aroclor-1260-2	6.389	6.288	6.488	519.470	500.000	3.9
Aroclor-1260-3	6.542	6.441	6.641	518.410	500.000	3.7
Aroclor-1260-4	7.013	6.912	7.112	518.810	500.000	3.8
Aroclor-1260-5	7.254	7.154	7.354	519.750	500.000	4.0
Decachlorobiphenyl	8.635	8.535	8.735	50.790	50.000	1.6
Tetrachloro-m-xylene	3.638	3.539	3.739	53.620	50.000	7.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.40	7.40	7.30	7.50	0.01
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.98	7.98	7.88	8.08	0.00
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.09	10.09	9.99	10.19	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108134.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.525	5.425	5.625	521.430	500.000	4.3
Aroclor-1016-2	5.548	5.447	5.647	525.660	500.000	5.1
Aroclor-1016-3	5.610	5.510	5.710	517.460	500.000	3.5
Aroclor-1016-4	5.708	5.607	5.807	532.790	500.000	6.6
Aroclor-1016-5	6.004	5.904	6.104	530.560	500.000	6.1
Aroclor-1260-1	7.138	7.037	7.237	511.560	500.000	2.3
Aroclor-1260-2	7.395	7.295	7.495	542.950	500.000	8.6
Aroclor-1260-3	7.759	7.658	7.858	527.760	500.000	5.6
Aroclor-1260-4	7.984	7.884	8.084	540.130	500.000	8.0
Aroclor-1260-5	8.300	8.198	8.398	540.760	500.000	8.2
Decachlorobiphenyl	10.093	9.991	10.191	52.860	50.000	5.7
Tetrachloro-m-xylene	4.371	4.270	4.470	53.890	50.000	7.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108134.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.719	4.620	4.820	531.180	500.000	6.2
Aroclor-1016-2	4.738	4.639	4.839	535.030	500.000	7.0
Aroclor-1016-3	4.914	4.815	5.015	538.150	500.000	7.6
Aroclor-1016-4	4.956	4.856	5.056	526.910	500.000	5.4
Aroclor-1016-5	5.169	5.070	5.270	537.190	500.000	7.4
Aroclor-1260-1	6.200	6.100	6.300	526.660	500.000	5.3
Aroclor-1260-2	6.388	6.288	6.488	519.760	500.000	4.0
Aroclor-1260-3	6.540	6.441	6.641	510.520	500.000	2.1
Aroclor-1260-4	7.012	6.912	7.112	510.320	500.000	2.1
Aroclor-1260-5	7.253	7.154	7.354	508.310	500.000	1.7
Decachlorobiphenyl	8.634	8.535	8.735	48.500	50.000	-3.0
Tetrachloro-m-xylene	3.638	3.539	3.739	54.200	50.000	8.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 19:38 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.40	7.40	7.30	7.50	0.01
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.98	7.98	7.88	8.08	0.00
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.09	10.09	9.99	10.19	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 19:38 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL05 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108149.D **Time Analyzed:** 19:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.526	5.425	5.625	528.630	500.000	5.7
Aroclor-1016-2	5.549	5.447	5.647	520.240	500.000	4.0
Aroclor-1016-3	5.611	5.510	5.710	513.970	500.000	2.8
Aroclor-1016-4	5.708	5.607	5.807	521.170	500.000	4.2
Aroclor-1016-5	6.004	5.904	6.104	514.630	500.000	2.9
Aroclor-1260-1	7.138	7.037	7.237	518.810	500.000	3.8
Aroclor-1260-2	7.395	7.295	7.495	545.340	500.000	9.1
Aroclor-1260-3	7.759	7.658	7.858	520.170	500.000	4.0
Aroclor-1260-4	7.984	7.884	8.084	517.420	500.000	3.5
Aroclor-1260-5	8.300	8.198	8.398	525.890	500.000	5.2
Decachlorobiphenyl	10.093	9.991	10.191	50.960	50.000	1.9
Tetrachloro-m-xylene	4.371	4.270	4.470	53.830	50.000	7.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL05 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108149.D **Time Analyzed:** 19:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.719	4.620	4.820	547.380	500.000	9.5
Aroclor-1016-2	4.738	4.639	4.839	545.840	500.000	9.2
Aroclor-1016-3	4.914	4.815	5.015	540.160	500.000	8.0
Aroclor-1016-4	4.956	4.856	5.056	518.270	500.000	3.7
Aroclor-1016-5	5.168	5.070	5.270	554.520	500.000	10.9
Aroclor-1260-1	6.200	6.100	6.300	547.210	500.000	9.4
Aroclor-1260-2	6.387	6.288	6.488	534.890	500.000	7.0
Aroclor-1260-3	6.541	6.441	6.641	524.600	500.000	4.9
Aroclor-1260-4	7.012	6.912	7.112	520.030	500.000	4.0
Aroclor-1260-5	7.253	7.154	7.354	511.160	500.000	2.2
Decachlorobiphenyl	8.633	8.535	8.735	47.130	50.000	-5.7
Tetrachloro-m-xylene	3.638	3.539	3.739	55.980	50.000	12.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 23:06 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.71	5.61	5.81	0.00
Aroclor-1016-5	(5)	6.01	6.00	5.90	6.10	-0.01
Aroclor-1260-1	(1)	7.14	7.14	7.04	7.24	0.00
Aroclor-1260-2	(2)	7.40	7.40	7.30	7.50	0.00
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	7.99	7.98	7.88	8.08	-0.01
Aroclor-1260-5	(5)	8.30	8.30	8.20	8.40	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.10	10.09	9.99	10.19	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/20/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

Continuing Calib Time: 23:06 **Initial Calibration Time(s):** 15:32 22:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.72	4.62	4.82	0.00
Aroclor-1016-2	(2)	4.74	4.74	4.64	4.84	0.00
Aroclor-1016-3	(3)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-1	(1)	6.20	6.20	6.10	6.30	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.54	6.44	6.64	0.00
Aroclor-1260-4	(4)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-5	(5)	7.25	7.25	7.15	7.35	0.00
Tetrachloro-m-xylene		3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL06 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108159.D **Time Analyzed:** 23:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.526	5.425	5.625	545.410	500.000	9.1
Aroclor-1016-2	5.548	5.447	5.647	539.240	500.000	7.8
Aroclor-1016-3	5.611	5.510	5.710	531.900	500.000	6.4
Aroclor-1016-4	5.708	5.607	5.807	546.420	500.000	9.3
Aroclor-1016-5	6.005	5.904	6.104	552.530	500.000	10.5
Aroclor-1260-1	7.138	7.037	7.237	546.400	500.000	9.3
Aroclor-1260-2	7.397	7.295	7.495	577.560	500.000	15.5
Aroclor-1260-3	7.760	7.658	7.858	556.610	500.000	11.3
Aroclor-1260-4	7.985	7.884	8.084	559.850	500.000	12.0
Aroclor-1260-5	8.301	8.198	8.398	566.220	500.000	13.2
Decachlorobiphenyl	10.097	9.991	10.191	53.910	50.000	7.8
Tetrachloro-m-xylene	4.371	4.270	4.470	56.130	50.000	12.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2024 11/18/2024

Client Sample No.: CCAL06 **Date Analyzed:** 11/20/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108159.D **Time Analyzed:** 23:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.719	4.620	4.820	547.280	500.000	9.5
Aroclor-1016-2	4.738	4.639	4.839	549.370	500.000	9.9
Aroclor-1016-3	4.914	4.815	5.015	546.590	500.000	9.3
Aroclor-1016-4	4.956	4.856	5.056	532.480	500.000	6.5
Aroclor-1016-5	5.169	5.070	5.270	557.300	500.000	11.5
Aroclor-1260-1	6.200	6.100	6.300	549.930	500.000	10.0
Aroclor-1260-2	6.388	6.288	6.488	546.610	500.000	9.3
Aroclor-1260-3	6.541	6.441	6.641	538.450	500.000	7.7
Aroclor-1260-4	7.013	6.912	7.112	537.050	500.000	7.4
Aroclor-1260-5	7.254	7.154	7.354	536.090	500.000	7.2
Decachlorobiphenyl	8.636	8.535	8.735	50.810	50.000	1.6
Tetrachloro-m-xylene	3.638	3.539	3.739	56.020	50.000	12.0

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/18/2024 11/18/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	11/18/2024	15:16	PO108037.D	10.09	4.37
AR1660ICC1000	AR1660ICC1000	11/18/2024	15:32	PO108038.D	10.09	4.37
AR1660ICC750	AR1660ICC750	11/18/2024	15:48	PO108039.D	10.09	4.37
AR1660ICC500	AR1660ICC500	11/18/2024	16:05	PO108040.D	10.09	4.37
AR1660ICC250	AR1660ICC250	11/18/2024	16:21	PO108041.D	10.09	4.37
AR1660ICC050	AR1660ICC050	11/18/2024	16:37	PO108042.D	10.09	4.37
AR1221ICC500	AR1221ICC500	11/18/2024	16:53	PO108043.D	10.09	4.37
AR1232ICC500	AR1232ICC500	11/18/2024	17:09	PO108044.D	10.09	4.37
AR1242ICC1000	AR1242ICC1000	11/18/2024	17:25	PO108045.D	10.09	4.37
AR1242ICC750	AR1242ICC750	11/18/2024	17:42	PO108046.D	10.09	4.37
AR1242ICC500	AR1242ICC500	11/18/2024	17:58	PO108047.D	10.09	4.37
AR1242ICC250	AR1242ICC250	11/18/2024	18:14	PO108048.D	10.09	4.37
AR1242ICC050	AR1242ICC050	11/18/2024	18:30	PO108049.D	10.09	4.37
AR1248ICC1000	AR1248ICC1000	11/18/2024	18:47	PO108050.D	10.09	4.37
AR1248ICC750	AR1248ICC750	11/18/2024	19:03	PO108051.D	10.09	4.37
AR1248ICC500	AR1248ICC500	11/18/2024	19:19	PO108052.D	10.09	4.37
AR1248ICC250	AR1248ICC250	11/18/2024	19:35	PO108053.D	10.09	4.37
AR1248ICC050	AR1248ICC050	11/18/2024	19:51	PO108054.D	10.09	4.37
AR1254ICC1000	AR1254ICC1000	11/18/2024	20:07	PO108055.D	10.09	4.37
AR1254ICC750	AR1254ICC750	11/18/2024	20:24	PO108056.D	10.09	4.37
AR1254ICC500	AR1254ICC500	11/18/2024	20:40	PO108057.D	10.09	4.37
AR1254ICC250	AR1254ICC250	11/18/2024	20:56	PO108058.D	10.09	4.37
AR1254ICC050	AR1254ICC050	11/18/2024	21:12	PO108059.D	10.09	4.37
AR1262ICC500	AR1262ICC500	11/18/2024	21:28	PO108060.D	10.09	4.37
AR1268ICC1000	AR1268ICC1000	11/18/2024	21:45	PO108061.D	10.09	4.37
AR1268ICC750	AR1268ICC750	11/18/2024	22:02	PO108062.D	10.09	4.37
AR1268ICC500	AR1268ICC500	11/18/2024	22:19	PO108063.D	10.09	4.37
AR1268ICC250	AR1268ICC250	11/18/2024	22:35	PO108064.D	10.09	4.37
AR1268ICC050	AR1268ICC050	11/18/2024	22:51	PO108065.D	10.09	4.37
AR1660CCC500	AR1660CCC500	11/19/2024	09:37	PO108090.D	10.10	4.37
I.BLK	I.BLK	11/19/2024	10:42	PO108094.D	10.09	4.37
WB-310-TOP	P4892-01	11/19/2024	14:40	PO108097.D	10.09	4.37
WB-310-BOT	P4892-02	11/19/2024	14:57	PO108098.D	10.09	4.37
MH-763MS	P4893-01MS	11/19/2024	15:30	PO108100.D	10.09	4.37
MH-763MSD	P4893-01MSD	11/19/2024	15:47	PO108101.D	10.09	4.37
AR1660CCC500	AR1660CCC500	11/19/2024	16:34	PO108103.D	10.09	4.37
I.BLK	I.BLK	11/19/2024	17:40	PO108107.D	10.09	4.37
AR1660CCC500	AR1660CCC500	11/20/2024	09:21	PO108119.D	10.10	4.37
I.BLK	I.BLK	11/20/2024	10:27	PO108123.D	10.09	4.37
PB165082BL	PB165082BL	11/20/2024	11:12	PO108124.D	10.09	4.37
PB165082BS	PB165082BS	11/20/2024	11:29	PO108125.D	10.09	4.37
AR1660CCC500	AR1660CCC500	11/20/2024	14:51	PO108134.D	10.09	4.37

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Analytical Sequence

I.BLK	I.BLK	11/20/2024	15:56	PO108138.D	10.10	4.37
AR1660CCC500	AR1660CCC500	11/20/2024	19:38	PO108149.D	10.09	4.37
I.BLK	I.BLK	11/20/2024	20:44	PO108153.D	10.10	4.37
PB165133BL	PB165133BL	11/20/2024	21:00	PO108154.D	10.09	4.37
PB165133BS	PB165133BS	11/20/2024	21:16	PO108155.D	10.09	4.37
PB165133BSD	PB165133BSD	11/20/2024	21:33	PO108156.D	10.09	4.37
WB-310-SW	P4892-04	11/20/2024	21:49	PO108157.D	10.09	4.37
AR1660CCC500	AR1660CCC500	11/20/2024	23:06	PO108159.D	10.10	4.37
I.BLK	I.BLK	11/21/2024	00:12	PO108163.D	10.09	4.37

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/18/2024 11/18/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	11/18/2024	15:16	PO108037.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	11/18/2024	15:32	PO108038.D	8.64	3.64
AR1660ICC750	AR1660ICC750	11/18/2024	15:48	PO108039.D	8.63	3.64
AR1660ICC500	AR1660ICC500	11/18/2024	16:05	PO108040.D	8.64	3.64
AR1660ICC250	AR1660ICC250	11/18/2024	16:21	PO108041.D	8.63	3.64
AR1660ICC050	AR1660ICC050	11/18/2024	16:37	PO108042.D	8.64	3.64
AR1221ICC500	AR1221ICC500	11/18/2024	16:53	PO108043.D	8.63	3.64
AR1232ICC500	AR1232ICC500	11/18/2024	17:09	PO108044.D	8.63	3.64
AR1242ICC1000	AR1242ICC1000	11/18/2024	17:25	PO108045.D	8.63	3.64
AR1242ICC750	AR1242ICC750	11/18/2024	17:42	PO108046.D	8.63	3.64
AR1242ICC500	AR1242ICC500	11/18/2024	17:58	PO108047.D	8.63	3.64
AR1242ICC250	AR1242ICC250	11/18/2024	18:14	PO108048.D	8.64	3.64
AR1242ICC050	AR1242ICC050	11/18/2024	18:30	PO108049.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	11/18/2024	18:47	PO108050.D	8.64	3.64
AR1248ICC750	AR1248ICC750	11/18/2024	19:03	PO108051.D	8.63	3.64
AR1248ICC500	AR1248ICC500	11/18/2024	19:19	PO108052.D	8.64	3.64
AR1248ICC250	AR1248ICC250	11/18/2024	19:35	PO108053.D	8.63	3.64
AR1248ICC050	AR1248ICC050	11/18/2024	19:51	PO108054.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	11/18/2024	20:07	PO108055.D	8.64	3.64
AR1254ICC750	AR1254ICC750	11/18/2024	20:24	PO108056.D	8.64	3.64
AR1254ICC500	AR1254ICC500	11/18/2024	20:40	PO108057.D	8.63	3.64
AR1254ICC250	AR1254ICC250	11/18/2024	20:56	PO108058.D	8.64	3.64
AR1254ICC050	AR1254ICC050	11/18/2024	21:12	PO108059.D	8.64	3.64
AR1262ICC500	AR1262ICC500	11/18/2024	21:28	PO108060.D	8.63	3.64
AR1268ICC1000	AR1268ICC1000	11/18/2024	21:45	PO108061.D	8.64	3.64
AR1268ICC750	AR1268ICC750	11/18/2024	22:02	PO108062.D	8.64	3.64
AR1268ICC500	AR1268ICC500	11/18/2024	22:19	PO108063.D	8.63	3.64
AR1268ICC250	AR1268ICC250	11/18/2024	22:35	PO108064.D	8.63	3.64
AR1268ICC050	AR1268ICC050	11/18/2024	22:51	PO108065.D	8.63	3.64
AR1660CCC500	AR1660CCC500	11/19/2024	09:37	PO108090.D	8.63	3.64
I.BLK	I.BLK	11/19/2024	10:42	PO108094.D	8.63	3.64
WB-310-TOP	P4892-01	11/19/2024	14:40	PO108097.D	8.63	3.64
WB-310-BOT	P4892-02	11/19/2024	14:57	PO108098.D	8.63	3.64
MH-763MS	P4893-01MS	11/19/2024	15:30	PO108100.D	8.64	3.64
MH-763MSD	P4893-01MSD	11/19/2024	15:47	PO108101.D	8.63	3.64
AR1660CCC500	AR1660CCC500	11/19/2024	16:34	PO108103.D	8.63	3.64
I.BLK	I.BLK	11/19/2024	17:40	PO108107.D	8.63	3.64
AR1660CCC500	AR1660CCC500	11/20/2024	09:21	PO108119.D	8.64	3.64
I.BLK	I.BLK	11/20/2024	10:27	PO108123.D	8.63	3.64
PB165082BL	PB165082BL	11/20/2024	11:12	PO108124.D	8.63	3.64
PB165082BS	PB165082BS	11/20/2024	11:29	PO108125.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/20/2024	14:51	PO108134.D	8.63	3.64

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Analytical Sequence

I.BLK	I.BLK	11/20/2024	15:56	PO108138.D	8.63	3.64
AR1660CCC500	AR1660CCC500	11/20/2024	19:38	PO108149.D	8.63	3.64
I.BLK	I.BLK	11/20/2024	20:44	PO108153.D	8.63	3.64
PB165133BL	PB165133BL	11/20/2024	21:00	PO108154.D	8.63	3.64
PB165133BS	PB165133BS	11/20/2024	21:16	PO108155.D	8.63	3.64
PB165133BSD	PB165133BSD	11/20/2024	21:33	PO108156.D	8.64	3.64
WB-310-SW	P4892-04	11/20/2024	21:49	PO108157.D	8.63	3.64
AR1660CCC500	AR1660CCC500	11/20/2024	23:06	PO108159.D	8.64	3.64
I.BLK	I.BLK	11/21/2024	00:12	PO108163.D	8.64	3.64

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

MH-763MS

Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: P4893-01MS Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO108100.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.527	5.477	5.577	185		
	2	5.55	5.5	5.6	177		
	3	5.613	5.563	5.663	175		
COLUMN 1	4	5.71	5.66	5.76	189		
	5	6.006	5.956	6.056	180	181	
	1	4.719	4.669	4.769	182		
	2	4.739	4.689	4.789	185		
	3	4.914	4.864	4.964	188		
	4	4.955	4.905	5.005	185		
COLUMN 2	5	5.169	5.119	5.219	180	184	1.64
Aroclor-1260	1	7.14	7.09	7.19	202		
	2	7.397	7.347	7.447	204		
	3	7.76	7.71	7.81	169		
COLUMN 1	4	7.986	7.936	8.036	190		
	5	8.302	8.252	8.352	184	190	
	1	6.2	6.15	6.25	192		
	2	6.388	6.338	6.438	190		
	3	6.541	6.491	6.591	191		
	4	7.012	6.962	7.062	165		
COLUMN 2	5	7.253	7.203	7.303	166	181	4.85

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

MH-763MSD

Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: P4893-01MSD Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO108101.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.525	5.475	5.575	185		
	2	5.547	5.497	5.597	175		
	3	5.61	5.56	5.66	174		
COLUMN 1	4	5.707	5.657	5.757	189		
	5	6.003	5.953	6.053	179	180	
	1	4.717	4.667	4.767	180		
	2	4.736	4.686	4.786	184		
	3	4.913	4.863	4.963	188		
	4	4.954	4.904	5.004	185		
COLUMN 2	5	5.168	5.118	5.218	179	183	1.65
Aroclor-1260	1	7.135	7.085	7.185	201		
	2	7.394	7.344	7.444	205		
	3	7.756	7.706	7.806	170		
COLUMN 1	4	7.982	7.932	8.032	196		
	5	8.297	8.247	8.347	187	192	
	1	6.199	6.149	6.249	190		
	2	6.386	6.336	6.436	188		
	3	6.539	6.489	6.589	189		
	4	7.011	6.961	7.061	163		
COLUMN 2	5	7.253	7.203	7.303	164	179	7.01

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB165082BS

Contract: PORT06
Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892
Lab Sample ID: PB165082BS Date(s) Analyzed: 11/20/2024 11/20/2024
Instrument ID (1): ECD_O Instrument ID (2): ECD_O
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PO108125.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.527	5.477	5.577	172		
	2	5.55	5.5	5.6	173		
	3	5.612	5.562	5.662	167		
COLUMN 1	4	5.709	5.659	5.759	173		
	5	6.006	5.956	6.056	171	171	
	1	4.718	4.668	4.768	172		
	2	4.737	4.687	4.787	174		
	3	4.914	4.864	4.964	173		
	4	4.955	4.905	5.005	169		
COLUMN 2	5	5.168	5.118	5.218	166	171	0
Aroclor-1260	1	7.139	7.089	7.189	178		
	2	7.397	7.347	7.447	190		
	3	7.76	7.71	7.81	157		
COLUMN 1	4	7.984	7.934	8.034	176		
	5	8.3	8.25	8.35	166	173	
	1	6.2	6.15	6.25	175		
	2	6.388	6.338	6.438	175		
	3	6.541	6.491	6.591	175		
	4	7.012	6.962	7.062	151		
COLUMN 2	5	7.253	7.203	7.303	152	166	4.13

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB165133BS

Contract: PORT06
Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892
Lab Sample ID: PB165133BS Date(s) Analyzed: 11/20/2024 11/20/2024
Instrument ID (1): ECD_O Instrument ID (2): ECD_O
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PO108155.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.525	5.475	5.575	4.91		
	2	5.548	5.498	5.598	4.88		
	3	5.611	5.561	5.661	4.72		
COLUMN 1	4	5.708	5.658	5.758	4.91		
	5	6.005	5.955	6.055	4.78	4.80	
	1	4.719	4.669	4.769	4.99		
	2	4.737	4.687	4.787	5.07		
	3	4.914	4.864	4.964	4.85		
	4	4.955	4.905	5.005	4.81		
COLUMN 2	5	5.169	5.119	5.219	4.79	4.90	2.06
Aroclor-1260	1	7.138	7.088	7.188	5.14		
	2	7.396	7.346	7.446	5.27		
	3	7.759	7.709	7.809	4.49		
COLUMN 1	4	7.984	7.934	8.034	4.84		
	5	8.301	8.251	8.351	4.63	4.90	
	1	6.2	6.15	6.25	5.08		
	2	6.387	6.337	6.437	5.02		
	3	6.54	6.49	6.59	5.00		
	4	7.011	6.961	7.061	4.31		
COLUMN 2	5	7.252	7.202	7.302	4.30	4.70	4.17

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

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB165133BSD

Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: PB165133BSD Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO108156.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.526	5.476	5.576	4.89		
	2	5.549	5.499	5.599	4.92		
	3	5.612	5.562	5.662	4.74		
COLUMN 1	4	5.709	5.659	5.759	4.90		
	5	6.005	5.955	6.055	4.83	4.90	
	1	4.719	4.669	4.769	5.00		
	2	4.738	4.688	4.788	5.06		
	3	4.915	4.865	4.965	4.88		
	4	4.956	4.906	5.006	4.86		
COLUMN 2	5	5.169	5.119	5.219	4.81	4.90	0
Aroclor-1260	1	7.139	7.089	7.189	5.22		
	2	7.396	7.346	7.446	5.32		
	3	7.76	7.71	7.81	4.50		
COLUMN 1	4	7.985	7.935	8.035	4.78		
	5	8.3	8.25	8.35	4.63	4.90	
	1	6.2	6.15	6.25	5.04		
	2	6.388	6.338	6.438	4.99		
	3	6.541	6.491	6.591	5.00		
	4	7.012	6.962	7.062	4.30		
COLUMN 2	5	7.253	7.203	7.303	4.29	4.70	4.17

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108097.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:40
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:12:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	4.369	3.638	125.3E6	49854878	14.391m	14.705
2) SA	Decachlor...	10.091	8.633	45187961	41123449	14.795	12.089m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

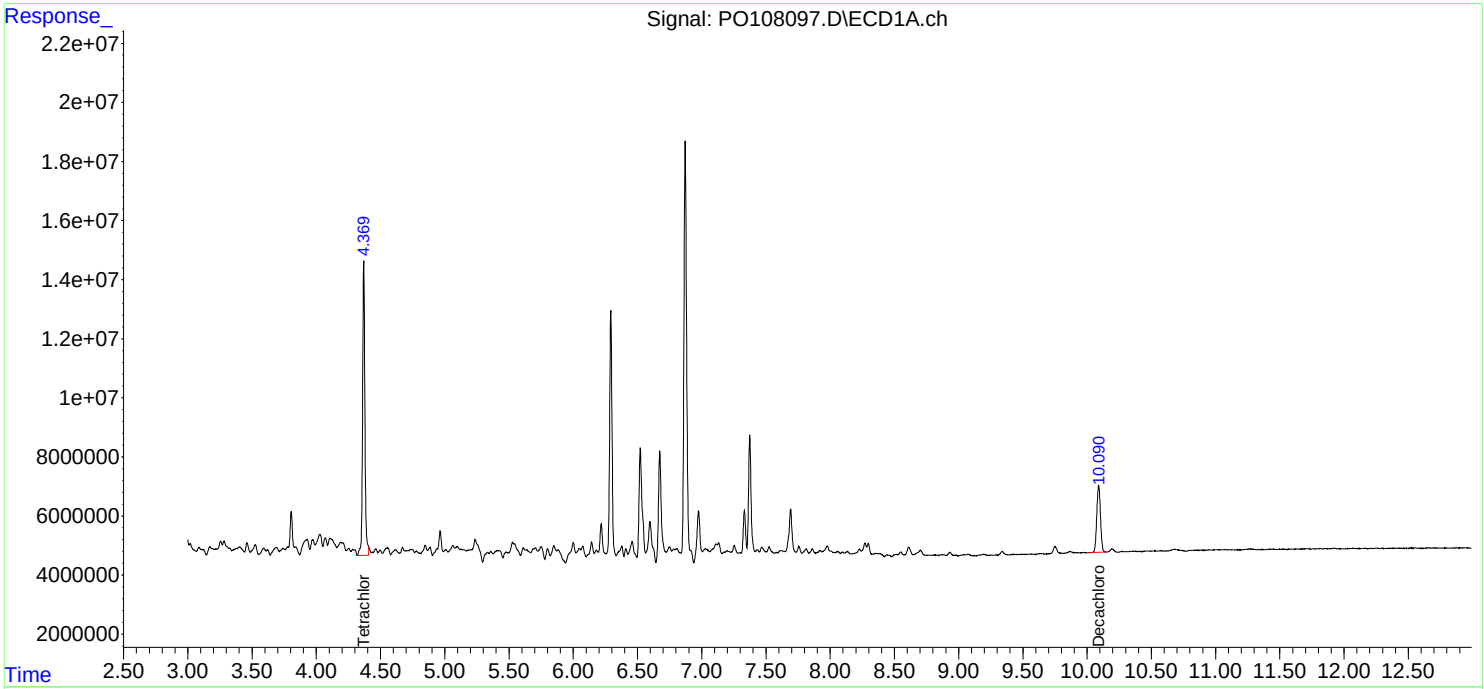
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108097.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:40
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

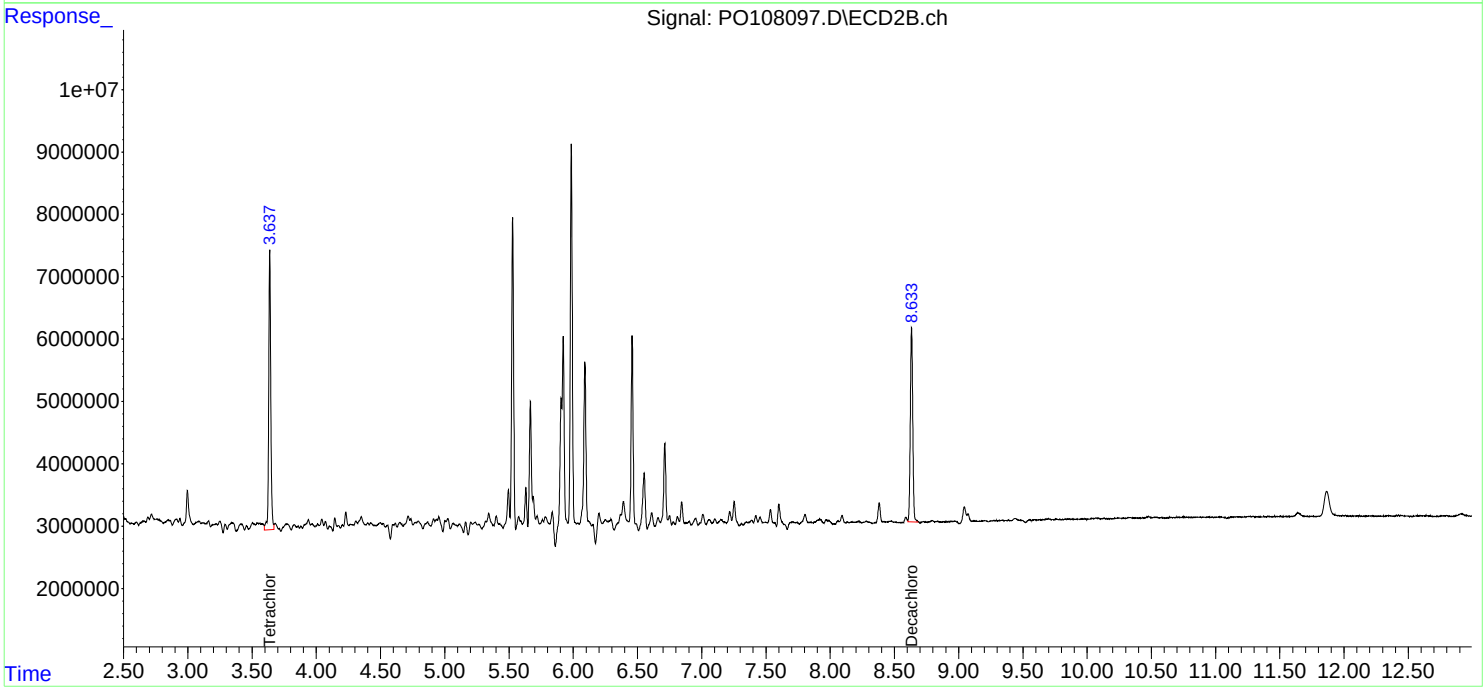
Instrument :
ECD_O
ClientSampleId :
WB-310-TOP

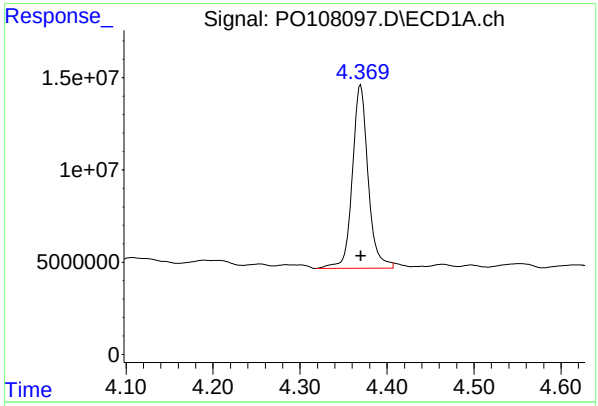
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:12:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







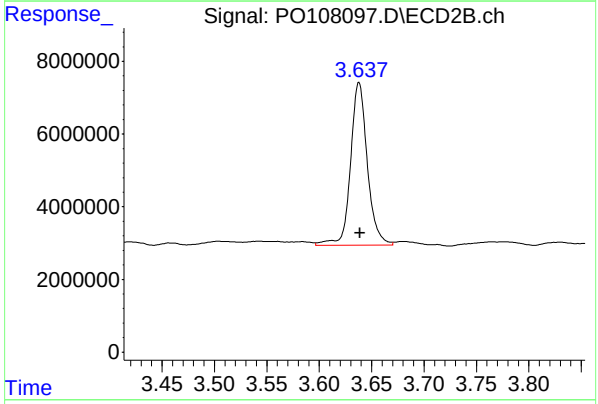
#1 Tetrachloro-m-xylene

R.T.: 4.369 min
Delta R.T.: -0.001 min
Response: 125293430
Conc: 14.39 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-310-TOP

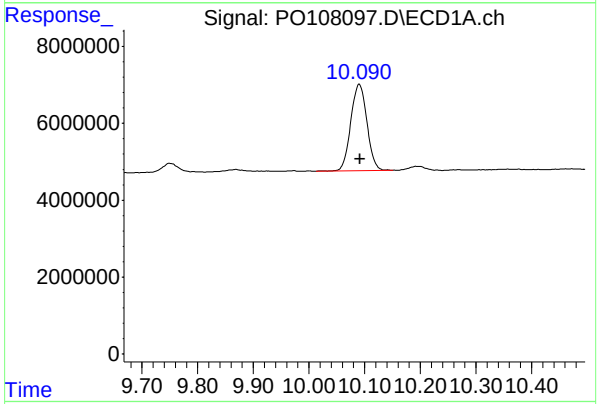
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



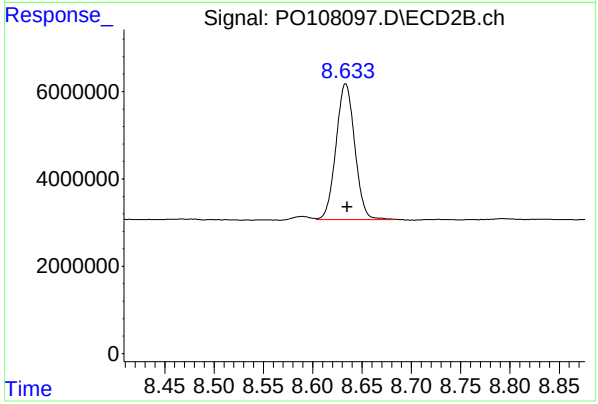
#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 49854878
Conc: 14.70 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.091 min
Delta R.T.: 0.000 min
Response: 45187961
Conc: 14.80 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.002 min
Response: 41123449
Conc: 12.09 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108098.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:57
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-310-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:12:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.372	3.637	167.5E6	63664279	19.234	18.778
2)	SA Decachlor...	10.093	8.634	65719656	62934896	21.518	18.501
	Target Compounds						

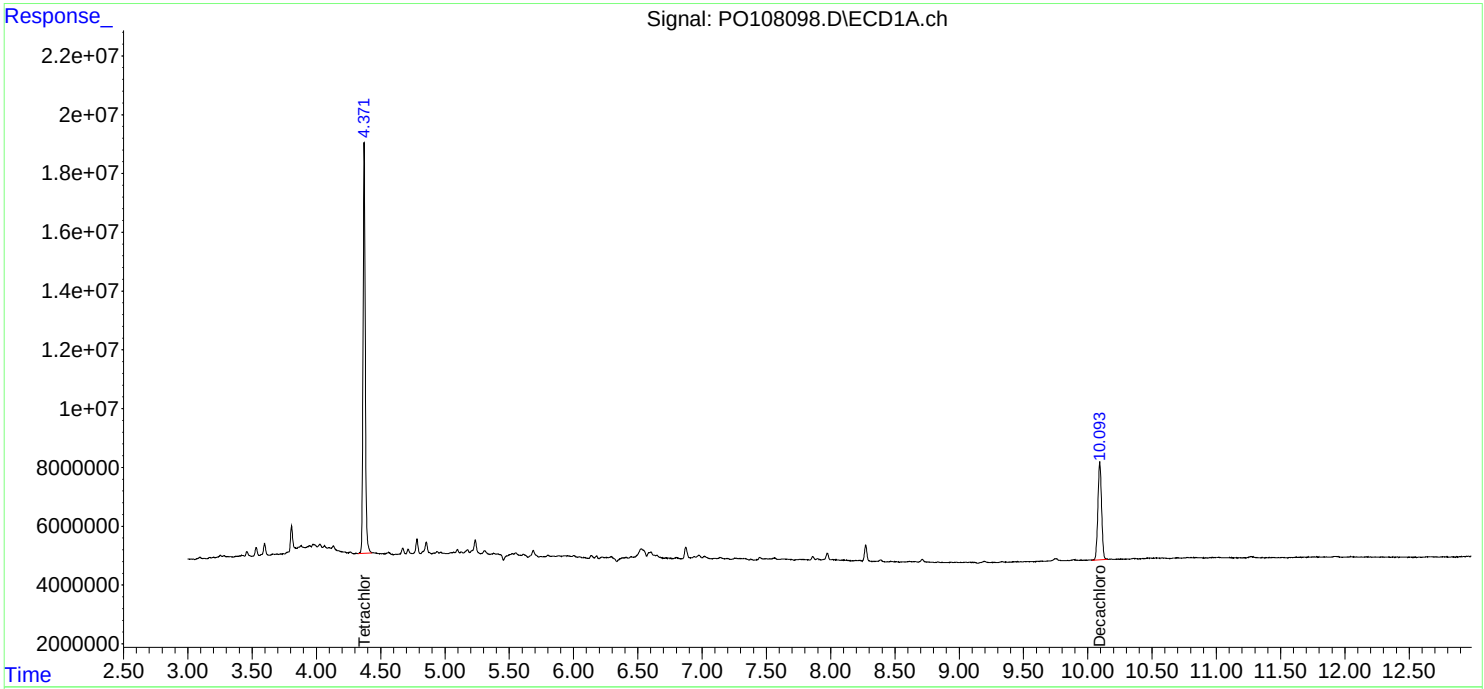
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

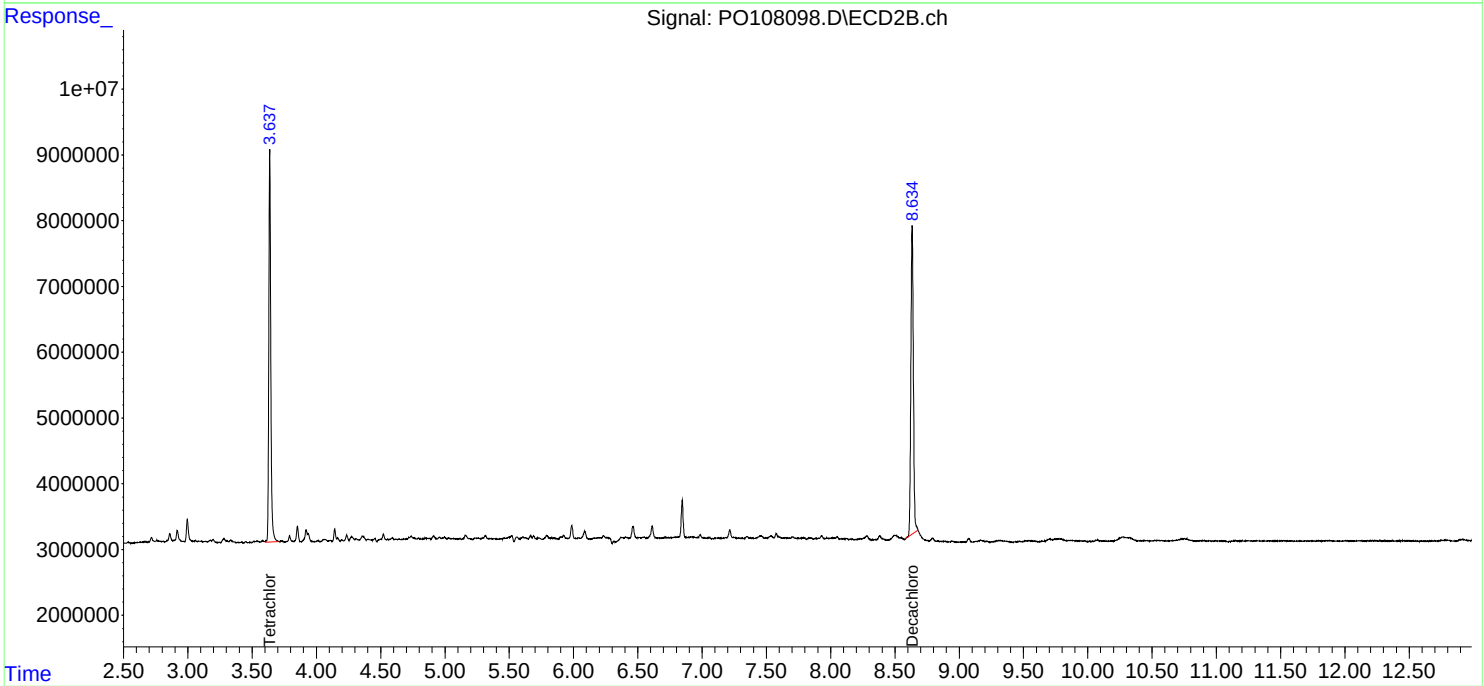
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108098.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:57
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

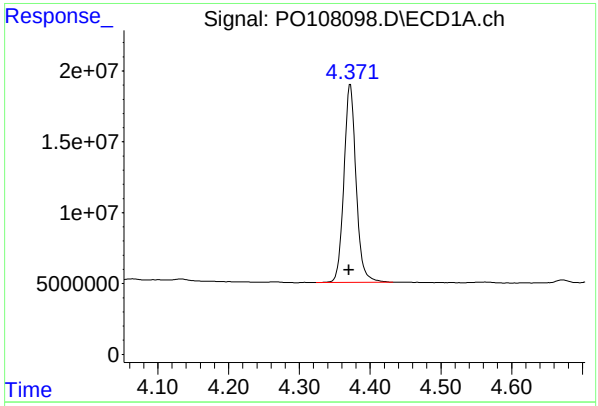
Instrument :
ECD_O
ClientSampleId :
WB-310-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:12:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



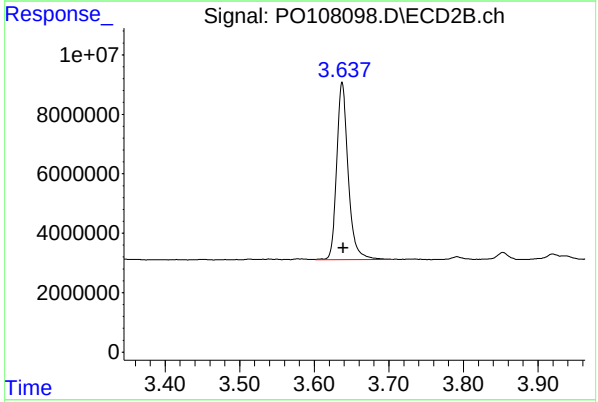




#1 Tetrachloro-m-xylene

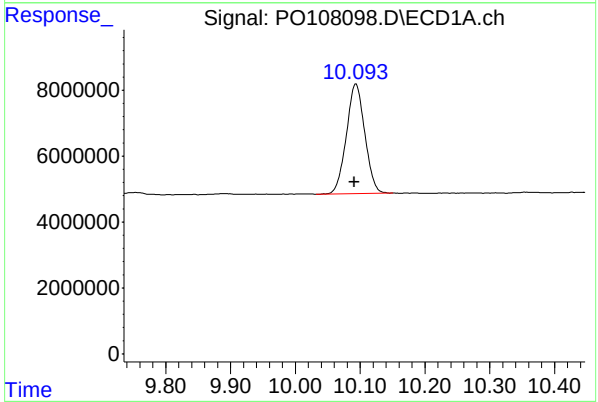
R.T.: 4.372 min
Delta R.T.: 0.002 min
Response: 167450812
Conc: 19.23 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-310-BOT



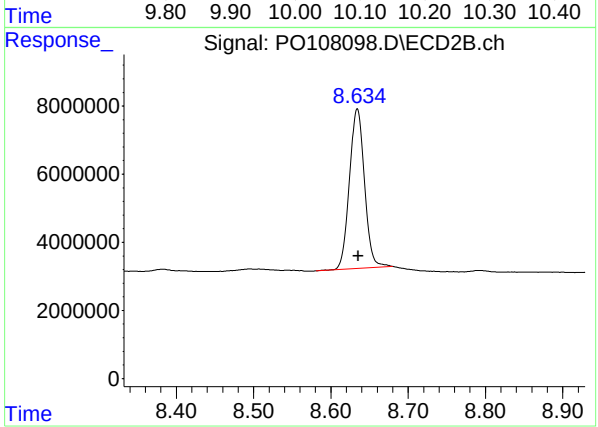
#1 Tetrachloro-m-xylene

R.T.: 3.637 min
Delta R.T.: -0.001 min
Response: 63664279
Conc: 18.78 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.002 min
Response: 65719656
Conc: 21.52 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.001 min
Response: 62934896
Conc: 18.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:49
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-310-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.639	223.7E6	86451045	25.696	25.499
2)	SA Decachlor...	10.094	8.634	75545035	74951572	24.735	22.033
	Target Compounds						

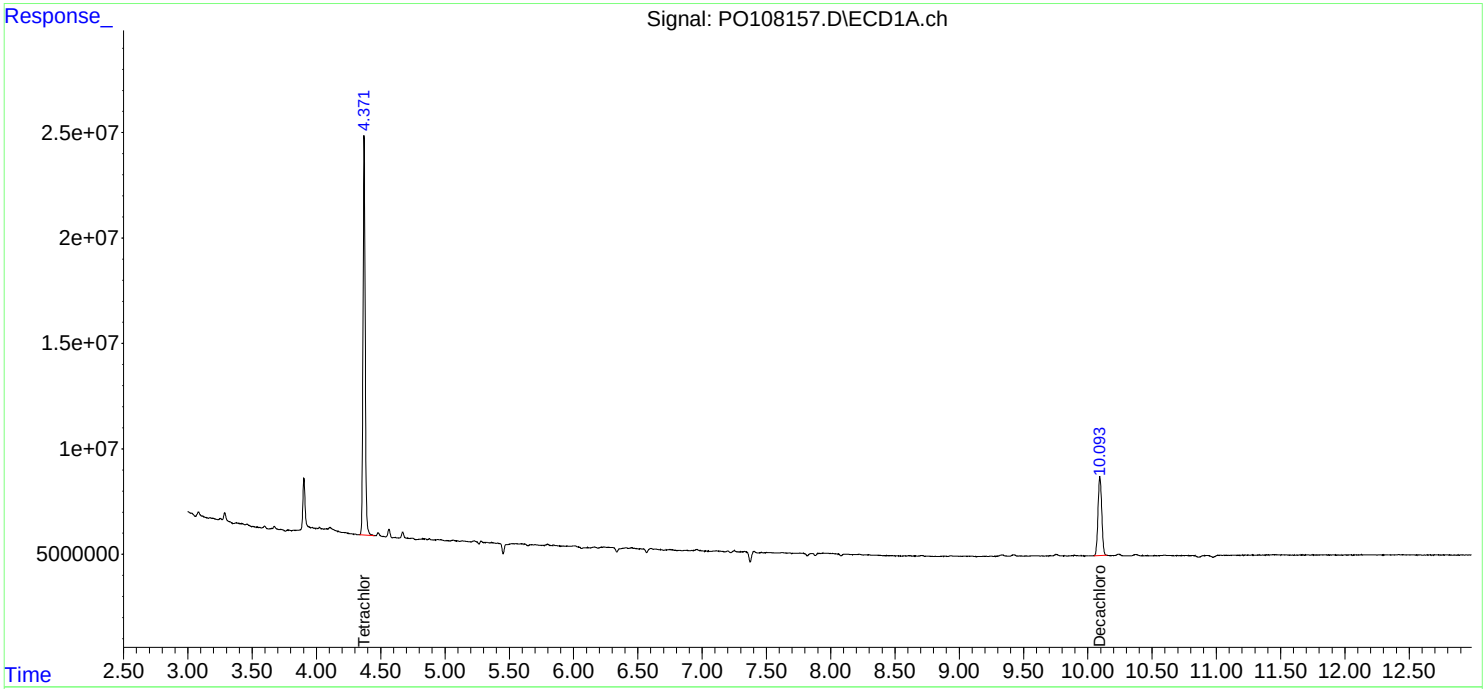
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

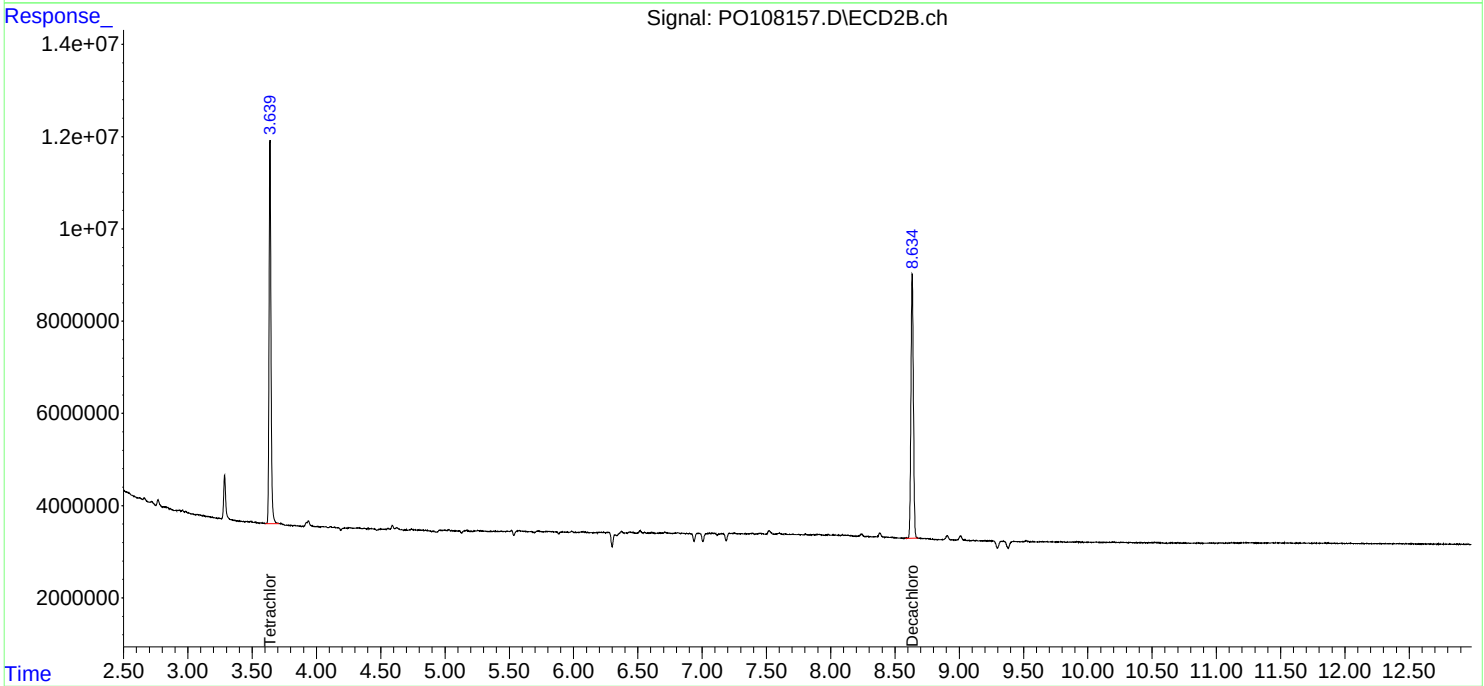
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:49
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

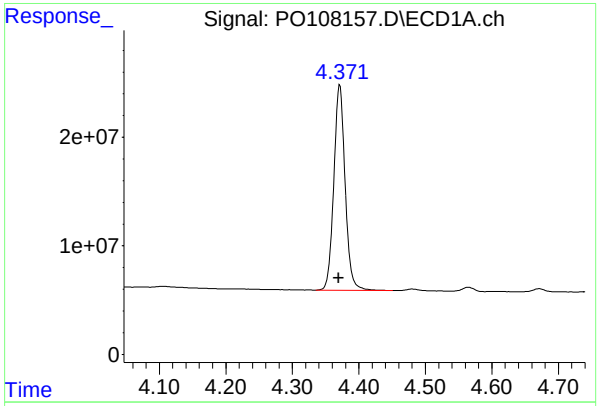
Instrument :
ECD_O
ClientSampleId :
WB-310-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



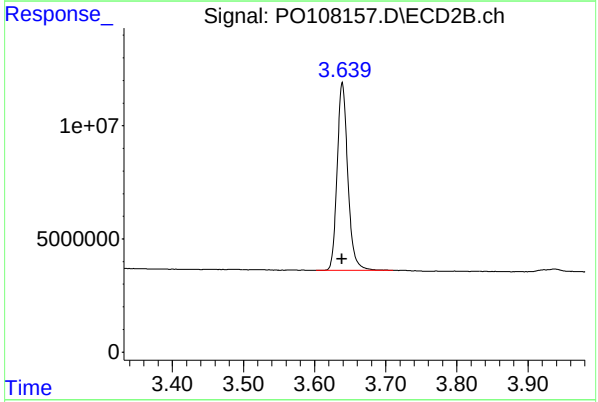




#1 Tetrachloro-m-xylene

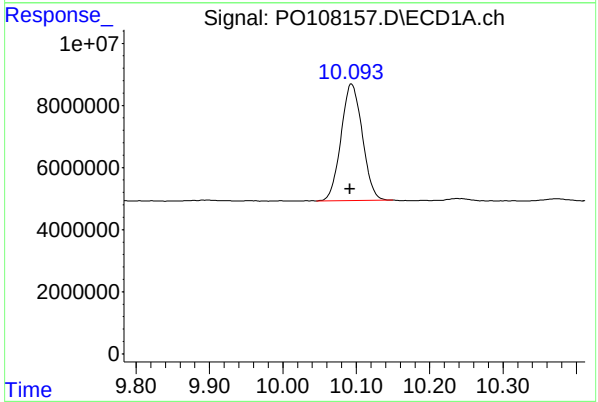
R.T.: 4.371 min
Delta R.T.: 0.001 min
Response: 223715690
Conc: 25.70 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-310-SW



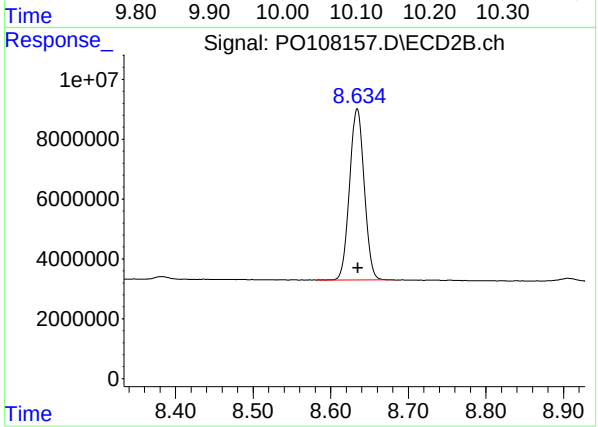
#1 Tetrachloro-m-xylene

R.T.: 3.639 min
Delta R.T.: 0.000 min
Response: 86451045
Conc: 25.50 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.094 min
Delta R.T.: 0.002 min
Response: 75545035
Conc: 24.73 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.001 min
Response: 74951572
Conc: 22.03 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 11:12
Operator : YP/AJ
Sample : PB165082BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165082BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:05:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.637	201.2E6	75984453	23.105	22.412
2)	SA Decachlor...	10.093	8.633	79369461	78967203	25.987	23.214
	Target Compounds						

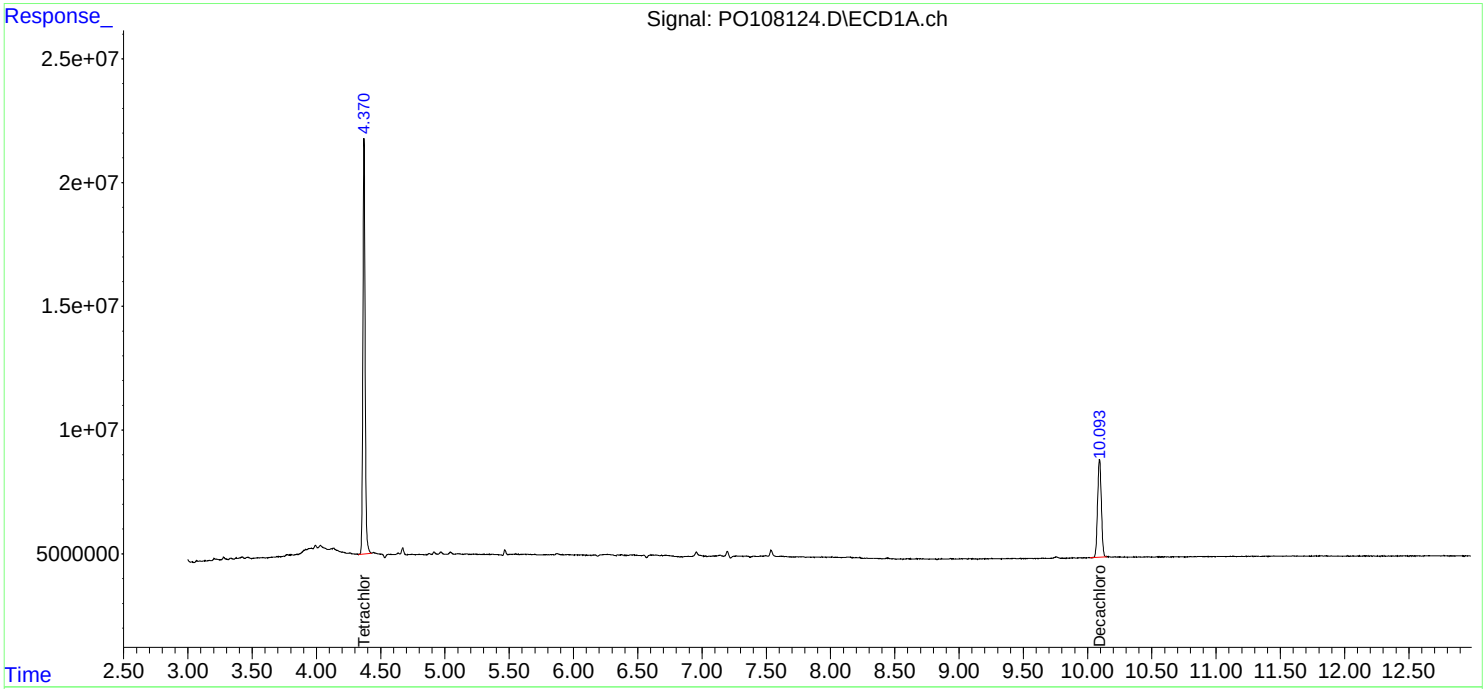
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

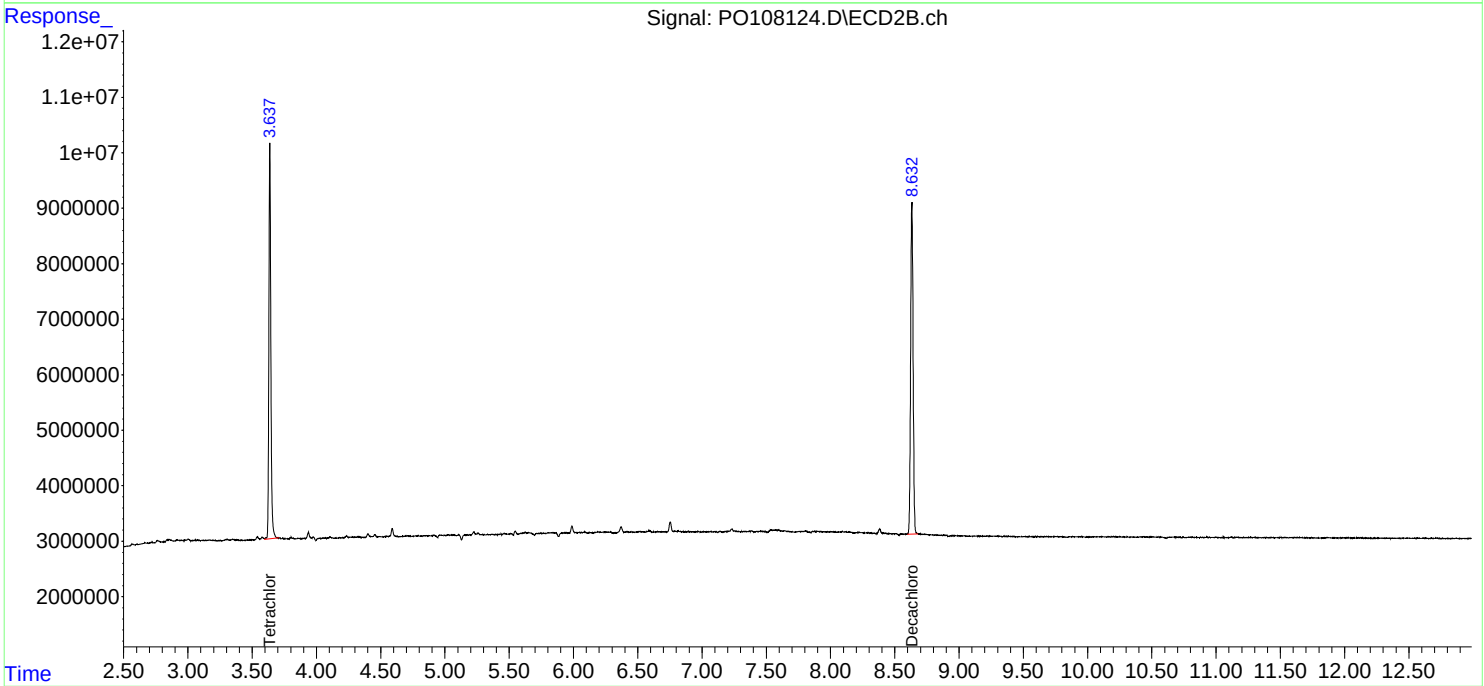
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 11:12
Operator : YP/AJ
Sample : PB165082BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

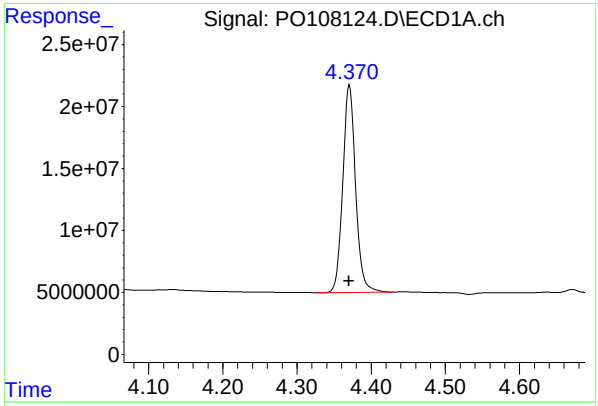
Instrument :
ECD_O
ClientSampleId :
PB165082BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:05:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



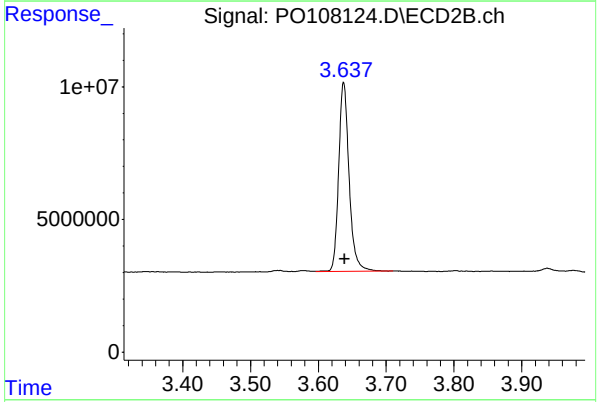




#1 Tetrachloro-m-xylene

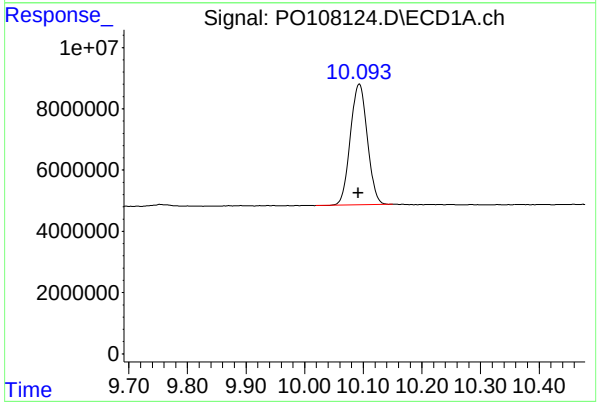
R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 201157919
Conc: 23.11 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB165082BL



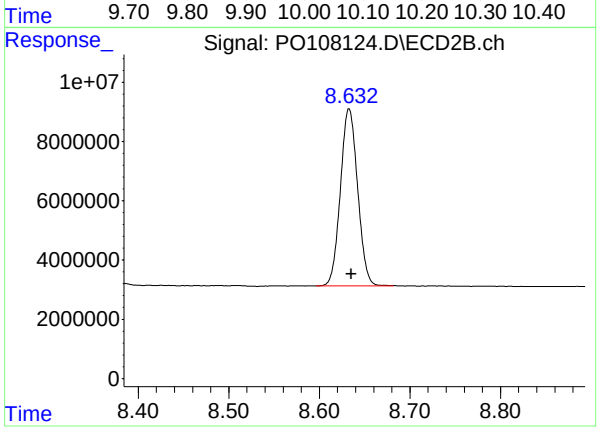
#1 Tetrachloro-m-xylene

R.T.: 3.637 min
Delta R.T.: -0.001 min
Response: 75984453
Conc: 22.41 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.002 min
Response: 79369461
Conc: 25.99 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.003 min
Response: 78967203
Conc: 23.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:00
Operator : YP/AJ
Sample : PB165133BL
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165133BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:13:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.638	188.6E6	73134440	21.662	21.571
2)	SA Decachlor...	10.093	8.634	72802458	71215896	23.837	20.935
	Target Compounds						

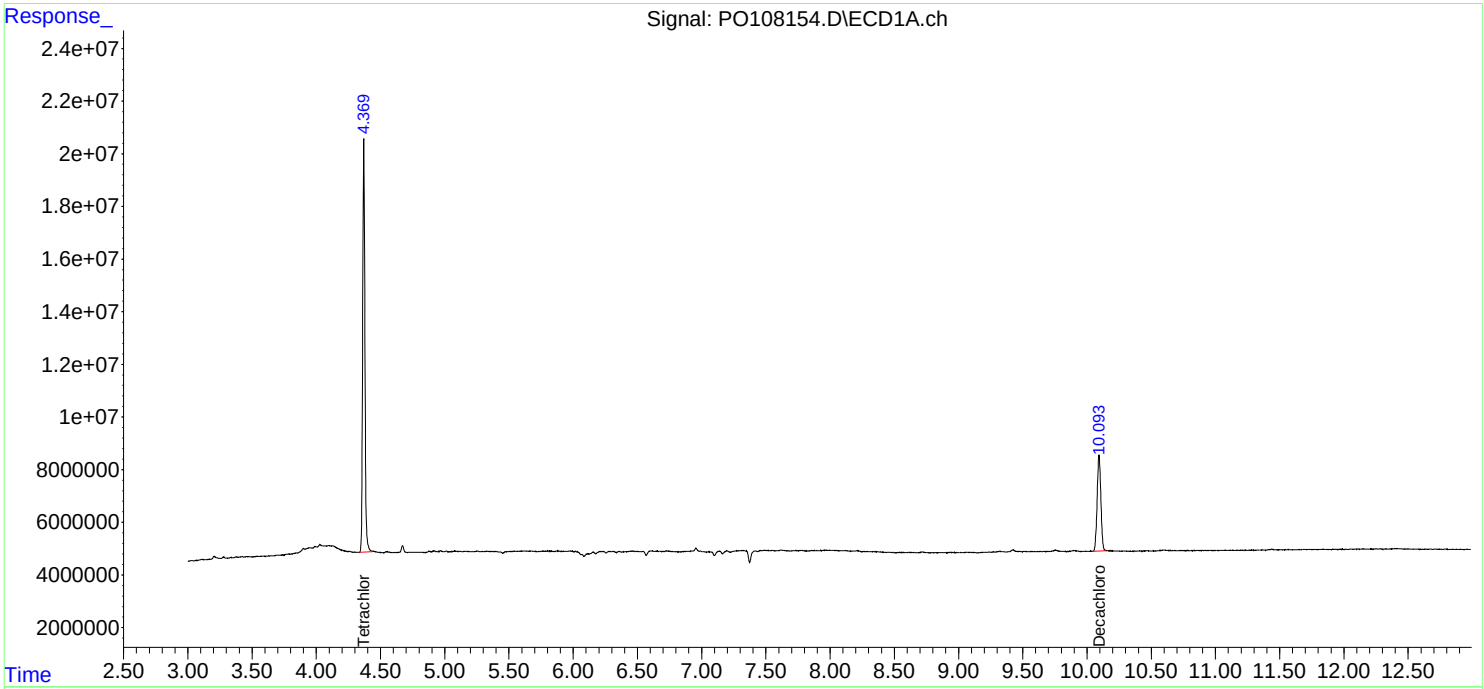
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

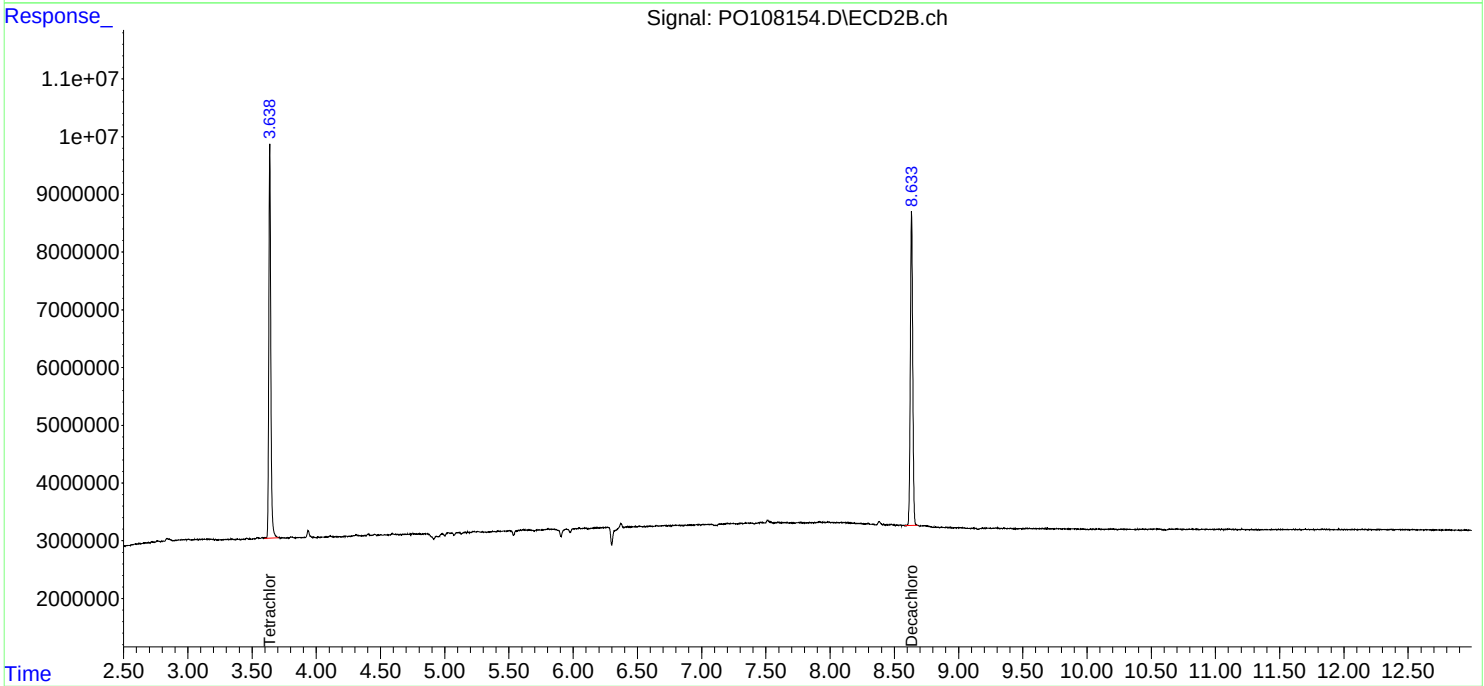
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:00
Operator : YP/AJ
Sample : PB165133BL
Misc :
ALS Vial : 27 Sample Multiplier: 1

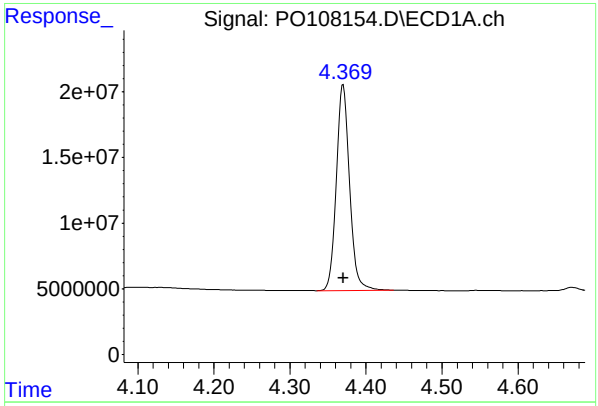
Instrument :
ECD_O
ClientSampleId :
PB165133BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:13:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



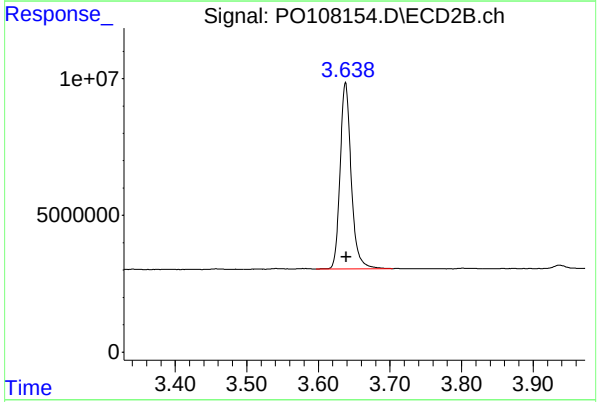




#1 Tetrachloro-m-xylene

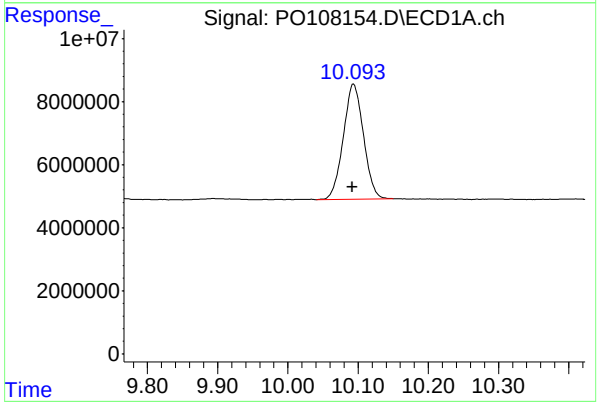
R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 188587157
Conc: 21.66 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB165133BL



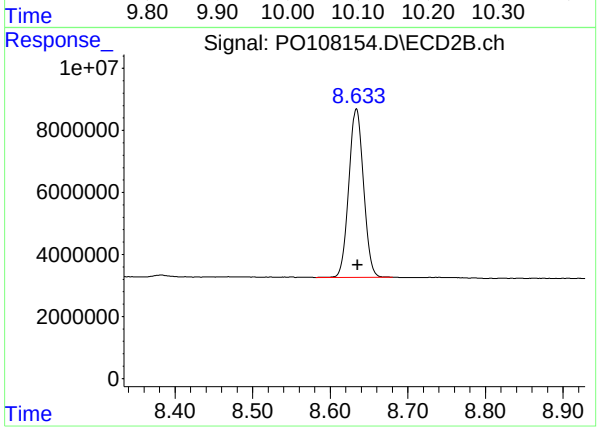
#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 73134440
Conc: 21.57 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.002 min
Response: 72802458
Conc: 23.84 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 71215896
Conc: 20.94 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 11:29
Operator : YP/AJ
Sample : PB165082BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165082BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/21/2024
Supervised By :Ankita Jodhani 11/21/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:05:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.372	3.637	201.6E6	72025446	23.157	21.244
2)	SA Decachlor...	10.093	8.635	79247642	77920009	25.947	22.906
	Target Compounds						
3)	L1 AR-1016-1	5.527	4.718	139.2E6	56478828	517.795	516.856
4)	L1 AR-1016-2	5.550	4.737	201.7E6	79721033	520.269	521.385
5)	L1 AR-1016-3	5.612	4.914	125.6E6	42768563	502.597	520.525
6)	L1 AR-1016-4	5.709	4.955	101.6E6	32372330	520.559	508.417
7)	L1 AR-1016-5	6.006	5.168	95229708	43322549	513.561	499.702
31)	L7 AR-1260-1	7.139	6.200	146.6E6	85169862	534.175	525.932
32)	L7 AR-1260-2	7.397	6.388	161.2E6	103.5E6	569.581	525.738
33)	L7 AR-1260-3	7.760	6.541	101.3E6	97866292	471.469	525.810
34)	L7 AR-1260-4	7.984	7.012	117.1E6	72710282	527.290m	454.455
35)	L7 AR-1260-5	8.300	7.253	190.0E6	179.3E6	498.071	456.644

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

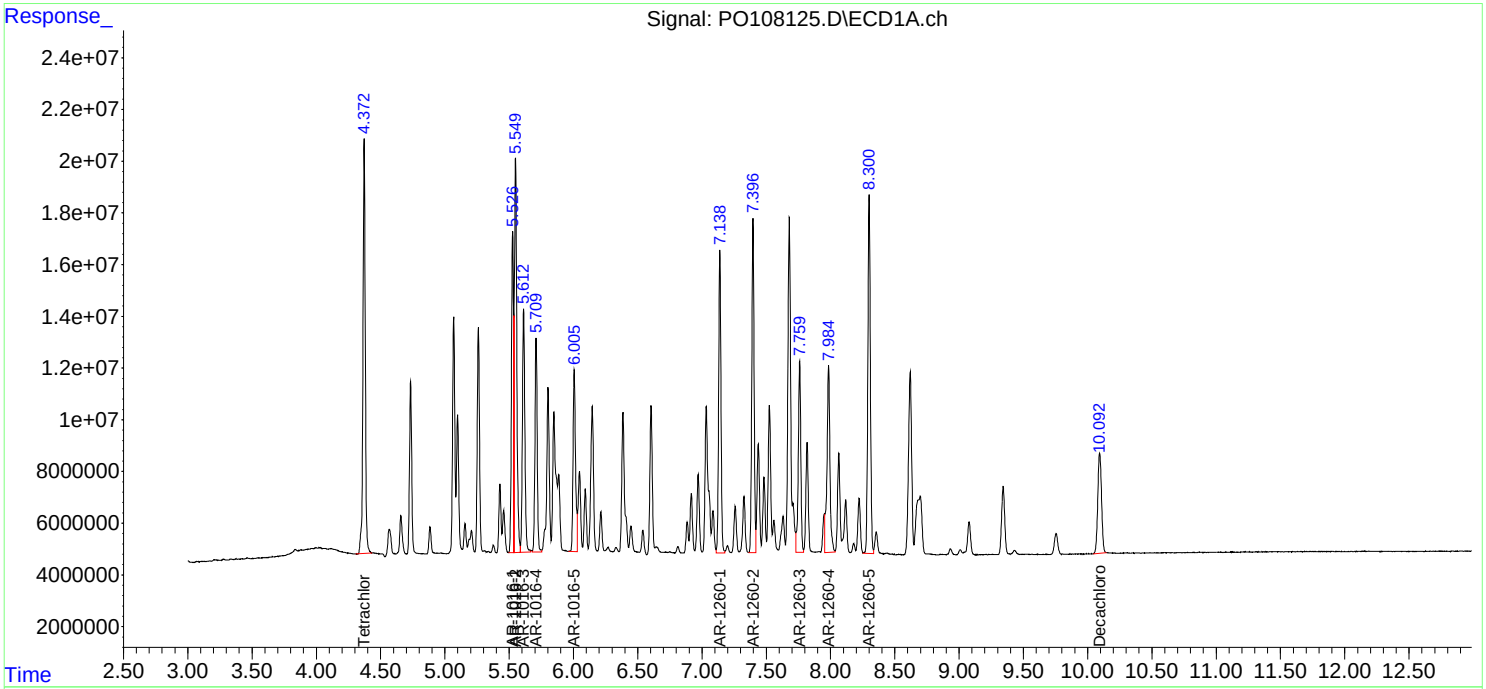
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 11:29
Operator : YP/AJ
Sample : PB165082BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

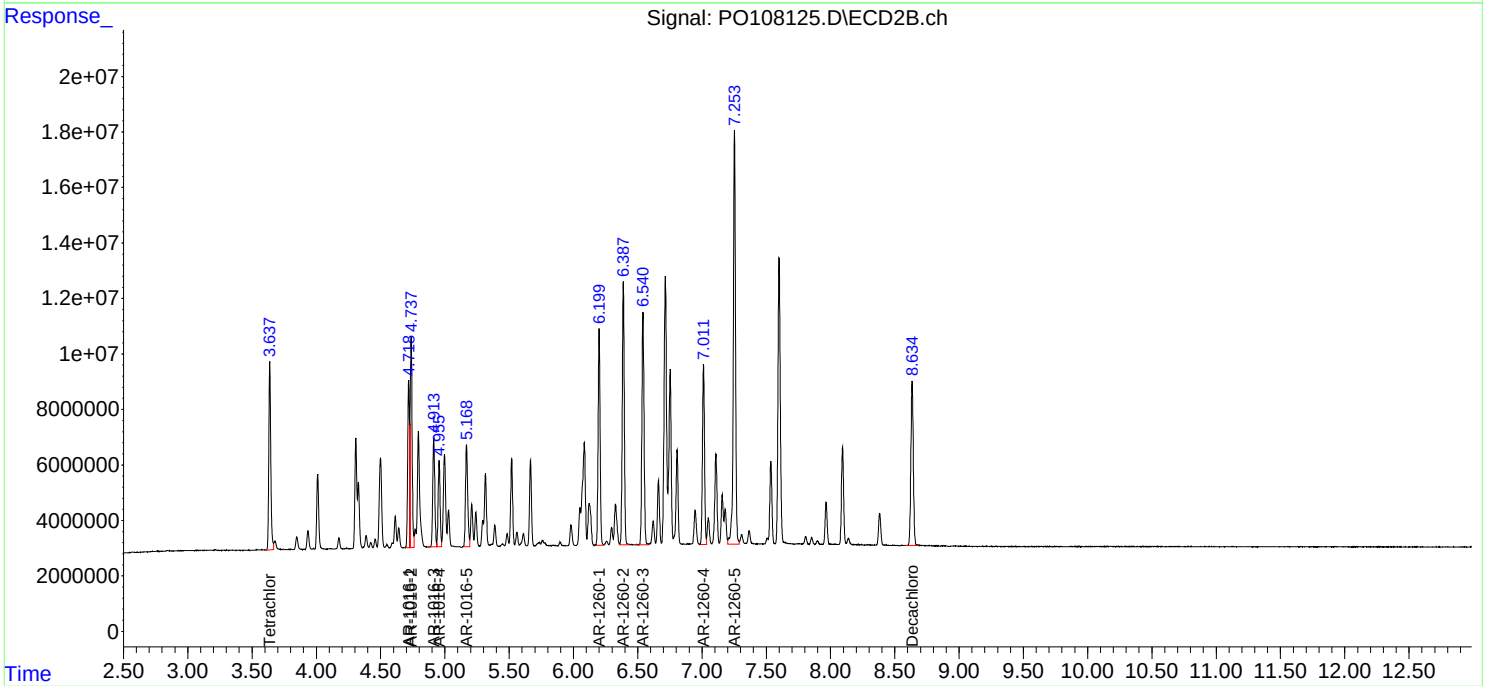
Instrument :
ECD_O
ClientSampleId :
PB165082BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/21/2024
Supervised By :Ankita Jodhani 11/21/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:05:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:16
Operator : YP/AJ
Sample : PB165133BS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165133BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.638	192.6E6	70442518	22.119	20.777
2)	SA Decachlor...	10.094	8.633	73159084	70916190	23.954	20.847
	Target Compounds						
3)	L1 AR-1016-1	5.525	4.719	132.0E6	54550673	490.718	499.211
4)	L1 AR-1016-2	5.548	4.737	189.2E6	77445156	487.931	506.500
5)	L1 AR-1016-3	5.611	4.914	117.9E6	39843666	471.793	484.927
6)	L1 AR-1016-4	5.708	4.955	95824213	30635879	490.729	481.146
7)	L1 AR-1016-5	6.005	5.169	88664642	41525844	478.156	478.978
31)	L7 AR-1260-1	7.138	6.200	141.1E6	82320032	514.090	508.334
32)	L7 AR-1260-2	7.396	6.387	149.2E6	98779627	527.091	501.766
33)	L7 AR-1260-3	7.759	6.540	96508455	93042320	449.234	499.892
34)	L7 AR-1260-4	7.984	7.011	107.5E6	68964285	484.374	431.041
35)	L7 AR-1260-5	8.301	7.252	176.6E6	168.7E6	462.818	429.557

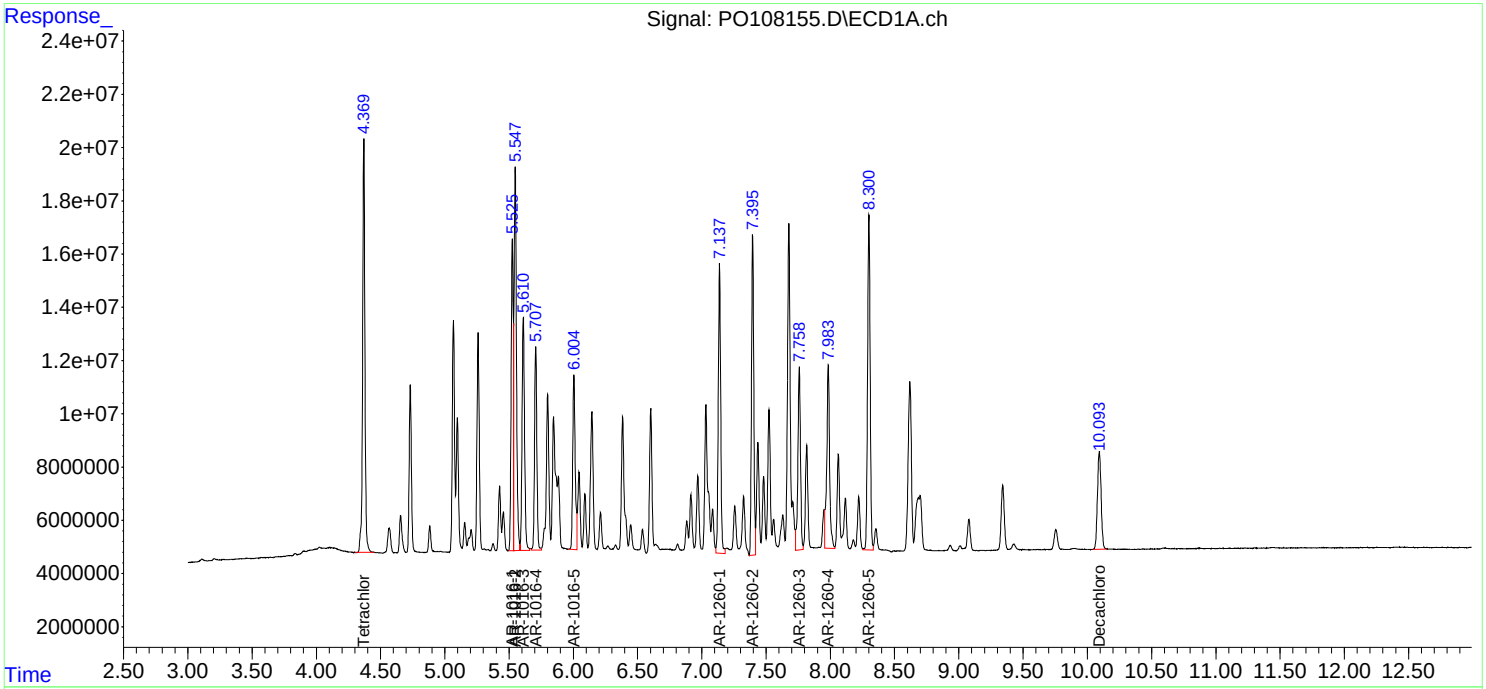
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

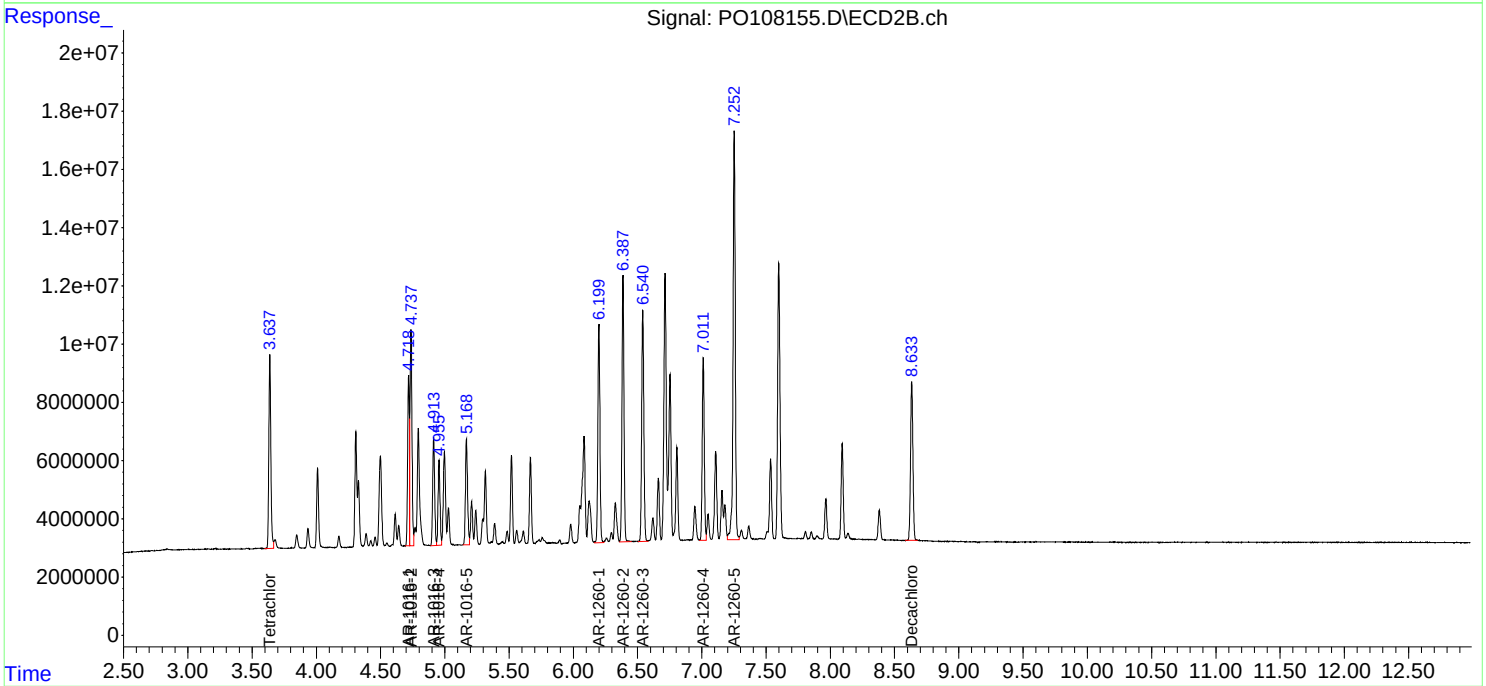
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:16
Operator : YP/AJ
Sample : PB165133BS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165133BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:33
Operator : YP/AJ
Sample : PB165133BSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165133BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.639	193.2E6	70560070	22.188	20.812
2)	SA Decachlor...	10.094	8.635	72389106	70967150	23.702	20.862
	Target Compounds						
3)	L1 AR-1016-1	5.526	4.719	131.4E6	54670190	488.663	500.305
4)	L1 AR-1016-2	5.549	4.738	190.7E6	77330339	491.980	505.750
5)	L1 AR-1016-3	5.612	4.915	118.5E6	40056417	474.249	487.516
6)	L1 AR-1016-4	5.709	4.956	95774195	30959666	490.472	486.231
7)	L1 AR-1016-5	6.005	5.169	89503726	41734388	482.681	481.384
31)	L7 AR-1260-1	7.139	6.200	143.2E6	81565023	521.952	503.672
32)	L7 AR-1260-2	7.396	6.388	150.7E6	98167064	532.327	498.654
33)	L7 AR-1260-3	7.760	6.541	96754958	93004014	450.381	499.686
34)	L7 AR-1260-4	7.985	7.012	106.1E6	68777411	478.128	429.873
35)	L7 AR-1260-5	8.300	7.253	176.5E6	168.3E6	462.564	428.668

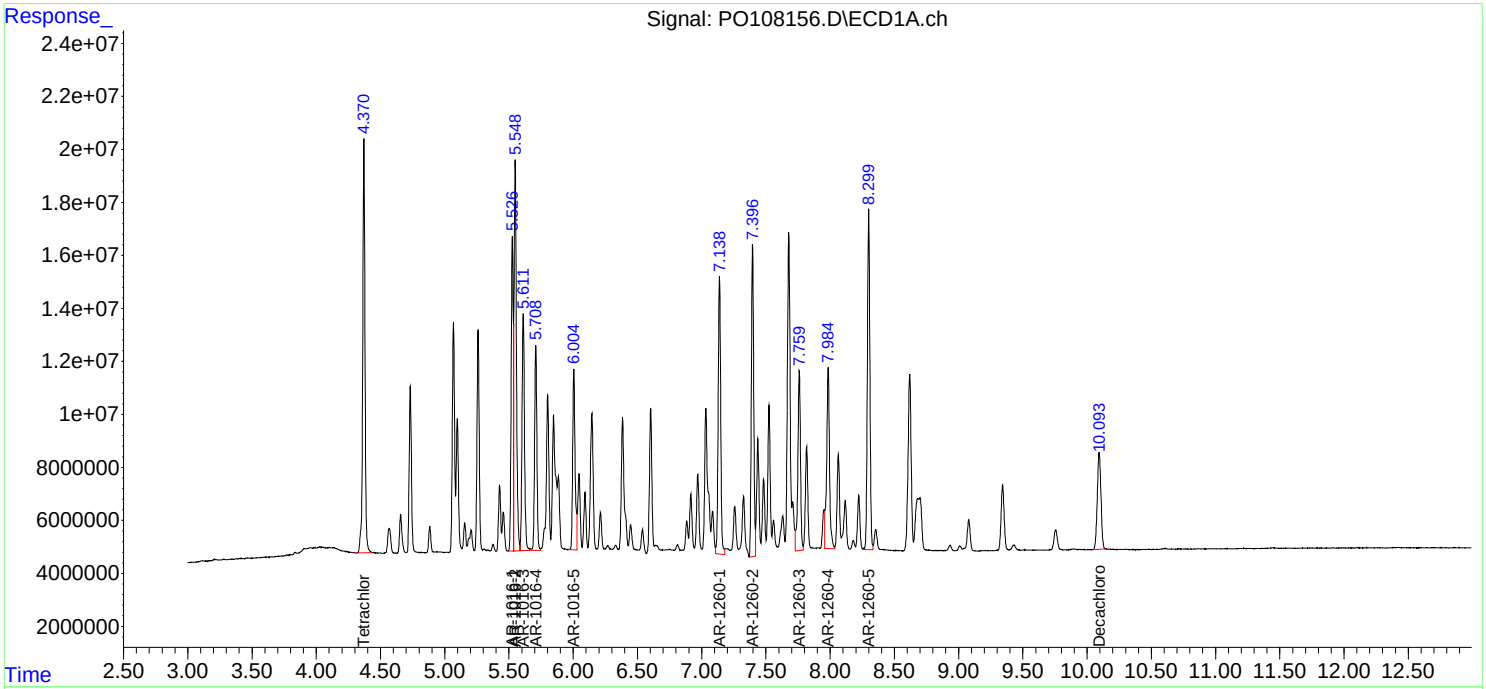
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

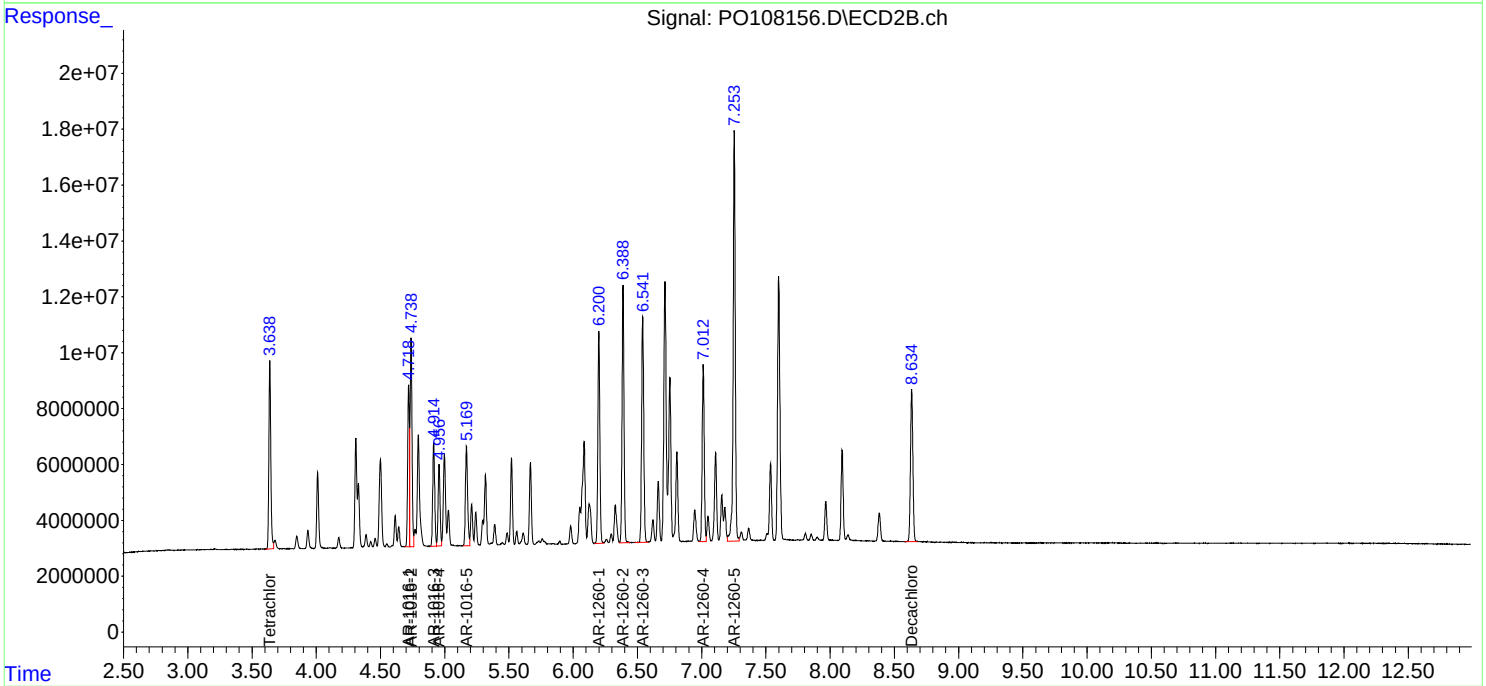
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO112024\
Data File : PO108156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Nov 2024 21:33
Operator : YP/AJ
Sample : PB165133BSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB165133BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 01:14:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:30
Operator : YP/AJ
Sample : P4893-01MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
MH-763MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:13:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.638	157.9E6	60417673	18.141m	17.820
2)	SA Decachlor...	10.094	8.635	65454538	64419980	21.431	18.938
	Target Compounds						
3)	L1 AR-1016-1	5.527	4.719	129.9E6	52021279	483.100	476.064
4)	L1 AR-1016-2	5.550	4.739	179.5E6	74063812	463.038	484.386
5)	L1 AR-1016-3	5.613	4.914	114.4E6	40438840	457.744	492.171
6)	L1 AR-1016-4	5.710	4.955	96438990	30723643	493.877	482.524
7)	L1 AR-1016-5	6.006	5.169	87423899	40758927	471.465	470.132
31)	L7 AR-1260-1	7.140	6.200	145.1E6	81117674	528.588	500.909
32)	L7 AR-1260-2	7.397	6.388	151.0E6	97851655	533.660	497.052
33)	L7 AR-1260-3	7.760	6.541	94740581	93010688	441.005	499.722
34)	L7 AR-1260-4	7.986	7.012	110.1E6	69033088	496.070	431.471
35)	L7 AR-1260-5	8.302	7.253	183.3E6	170.3E6	480.488	433.628

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

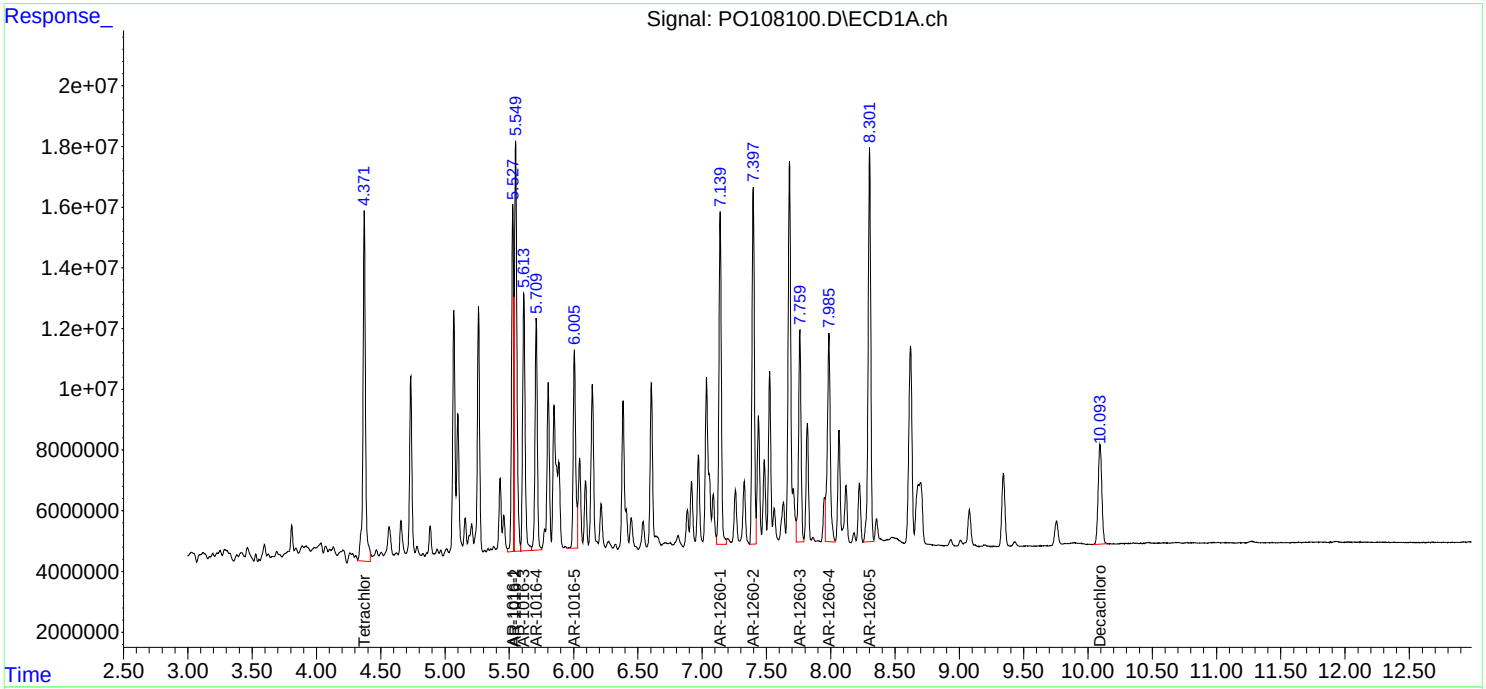
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:30
Operator : YP/AJ
Sample : P4893-01MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

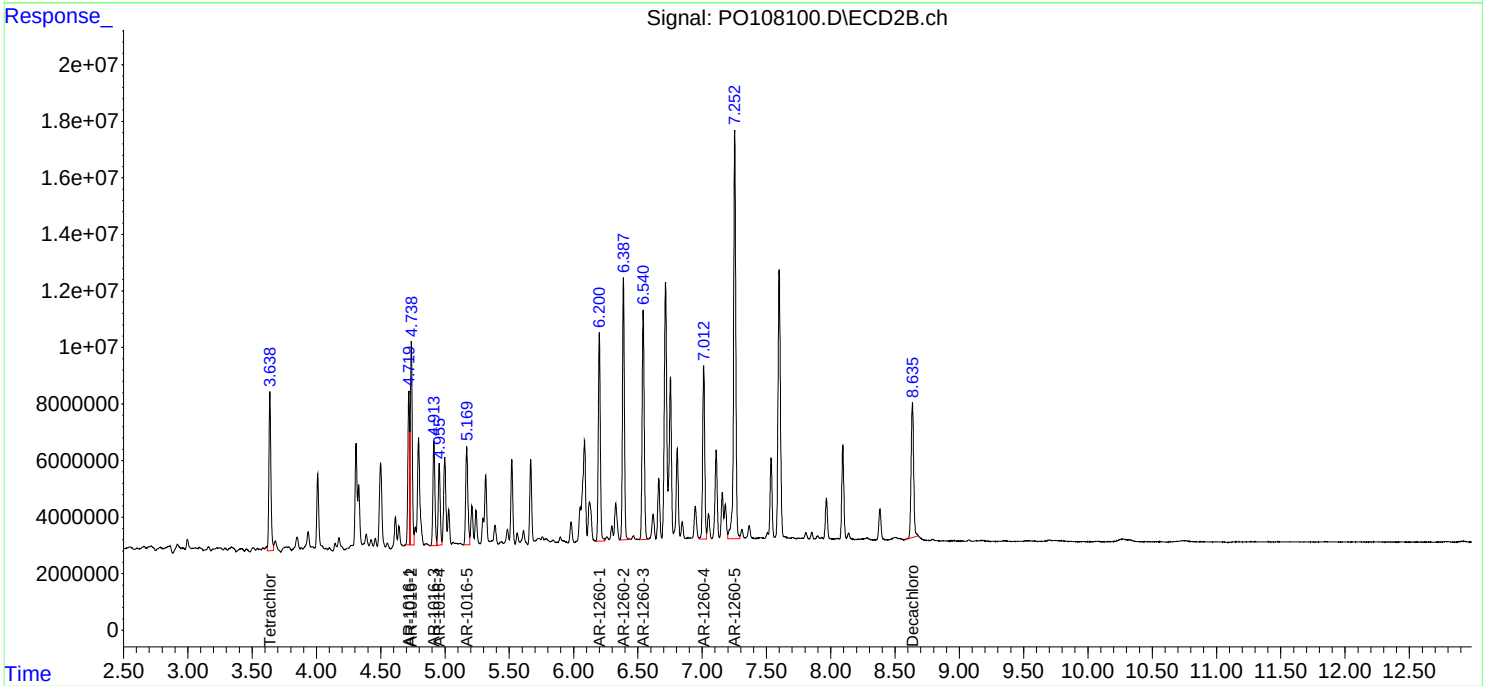
Instrument :
ECD_O
ClientSampleId :
MH-763MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:13:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:47
Operator : YP/AJ
Sample : P4893-01MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
MH-763MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:13:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.369	3.637	156.0E6	60188541	17.922m	17.753
2)	SA Decachlor...	10.089	8.632	67215032	63313972	22.007	18.612
	Target Compounds						
3)	L1 AR-1016-1	5.525	4.717	130.0E6	51546404	483.323	471.718
4)	L1 AR-1016-2	5.547	4.736	178.0E6	73691190	459.073	481.949
5)	L1 AR-1016-3	5.610	4.913	114.1E6	40328238	456.548	490.825
6)	L1 AR-1016-4	5.707	4.954	96429956	30767144	493.831	483.207
7)	L1 AR-1016-5	6.003	5.168	86861315	40539820	468.431	467.605
31)	L7 AR-1260-1	7.135	6.199	144.3E6	80407715	525.850	496.525
32)	L7 AR-1260-2	7.394	6.386	151.7E6	96740563	535.982	491.408
33)	L7 AR-1260-3	7.756	6.539	95516895	91890798	444.618	493.705
34)	L7 AR-1260-4	7.982	7.011	114.0E6	68260229	513.568m	426.641
35)	L7 AR-1260-5	8.297	7.253	186.2E6	168.8E6	488.150	429.840

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

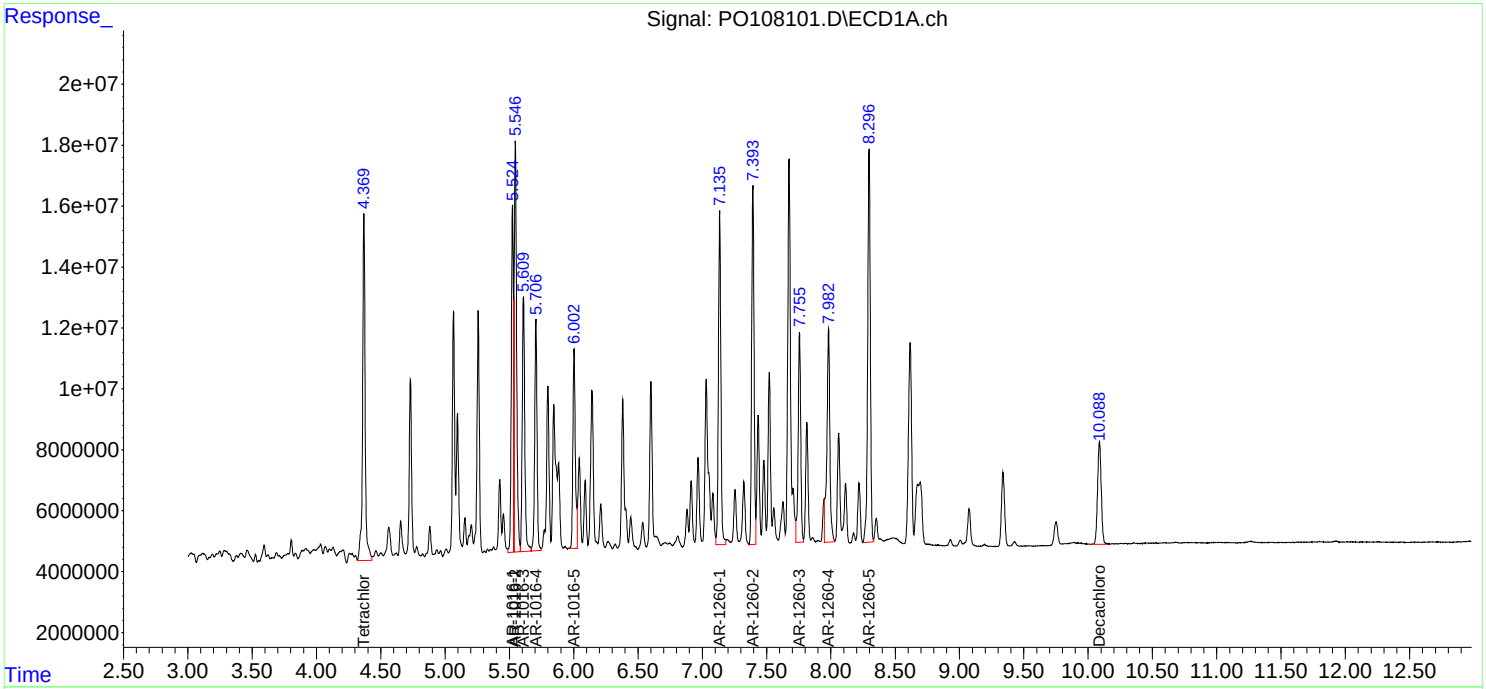
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111924\
Data File : PO108101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:47
Operator : YP/AJ
Sample : P4893-01MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

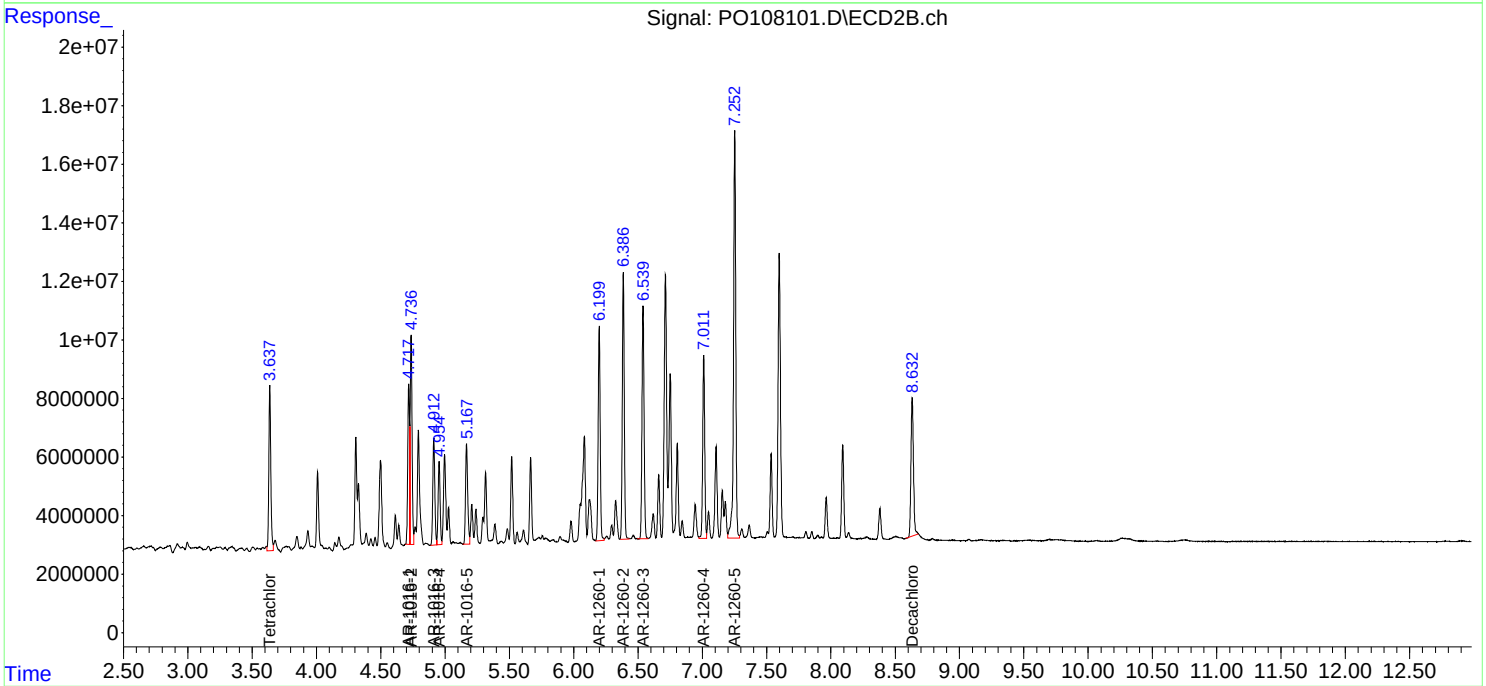
Instrument :
ECD_O
ClientSampleId :
MH-763MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 03:13:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO111824.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Nov 19 03:13:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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

Manual Integration Report

Sequence:	PO111824	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PO108042.D	AR-1260-1	yogesh	11/19/2024 9:13:44 AM	Ankita	11/19/2024 11:25:21	Peak Integrated by Software
AR1660ICC050	PO108042.D	AR-1260-1 #2	yogesh	11/19/2024 9:13:44 AM	Ankita	11/19/2024 11:25:21	Peak Integrated by Software
AR1660ICC050	PO108042.D	AR-1260-2	yogesh	11/19/2024 9:13:44 AM	Ankita	11/19/2024 11:25:21	Peak Integrated by Software
AR1660ICC050	PO108042.D	AR-1260-2 #2	yogesh	11/19/2024 9:13:44 AM	Ankita	11/19/2024 11:25:21	Peak Integrated by Software
AR1660ICC050	PO108042.D	AR-1260-3	yogesh	11/19/2024 9:13:44 AM	Ankita	11/19/2024 11:25:21	Peak Integrated by Software
AR1242ICC050	PO108049.D	AR-1242-5	yogesh	11/19/2024 9:13:45 AM	Ankita	11/19/2024 11:25:23	Peak Integrated by Software
AR1242ICC050	PO108049.D	AR-1242-5 #2	yogesh	11/19/2024 9:13:45 AM	Ankita	11/19/2024 11:25:23	Peak Integrated by Software
AR1248ICC050	PO108054.D	AR-1248-4	yogesh	11/19/2024 9:13:47 AM	Ankita	11/19/2024 11:25:25	Peak Integrated by Software
AR1248ICC050	PO108054.D	AR-1248-5	yogesh	11/19/2024 9:13:47 AM	Ankita	11/19/2024 11:25:25	Peak Integrated by Software
AR1248ICC050	PO108054.D	AR-1248-5 #2	yogesh	11/19/2024 9:13:47 AM	Ankita	11/19/2024 11:25:25	Peak Integrated by Software
AR1254ICC050	PO108059.D	AR-1254-3	yogesh	11/19/2024 9:13:49 AM	Ankita	11/19/2024 11:25:26	Peak Integrated by Software
AR1254ICC050	PO108059.D	AR-1254-4	yogesh	11/19/2024 9:13:49 AM	Ankita	11/19/2024 11:25:26	Peak Integrated by Software
AR1254ICC050	PO108059.D	AR-1254-4 #2	yogesh	11/19/2024 9:13:49 AM	Ankita	11/19/2024 11:25:26	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO111824	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254ICC050	PO108059.D	AR-1254-5	yogesh	11/19/2024 9:13:49 AM	Ankita	11/19/2024 11:25:26	Peak Integrated by Software
AR1268ICC750	PO108062.D	AR-1268-1	yogesh	11/19/2024 9:13:50 AM	Ankita	11/19/2024 11:25:27	Peak Integrated by Software
AR1268ICC500	PO108063.D	AR-1268-1	yogesh	11/19/2024 9:13:52 AM	Ankita	11/19/2024 11:25:29	Peak Integrated by Software
AR1268ICV500	PO108070.D	AR-1268-1	yogesh	11/19/2024 9:13:54 AM	Ankita	11/19/2024 11:25:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO111924	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4892-01	PO108097.D	Decachlorobiphenyl #2	yogesh	11/20/2024 8:00:39 AM	Ankita	11/20/2024 12:01:59	Peak Integrated by Software
P4892-01	PO108097.D	Tetrachloro-m-xylene	yogesh	11/20/2024 8:00:39 AM	Ankita	11/20/2024 12:01:59	Peak Integrated by Software
P4893-01MS	PO108100.D	Tetrachloro-m-xylene	yogesh	11/20/2024 8:00:42 AM	Ankita	11/20/2024 12:02:01	Peak Integrated by Software
P4893-01MSD	PO108101.D	AR-1260-4	yogesh	11/20/2024 8:00:44 AM	Ankita	11/20/2024 12:02:03	Peak Integrated by Software
P4893-01MSD	PO108101.D	Tetrachloro-m-xylene	yogesh	11/20/2024 8:00:44 AM	Ankita	11/20/2024 12:02:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO112024	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB165082BS	PO108125.D	AR-1260-4	yogesh	11/21/2024 8:45:38 AM	Ankita	11/21/2024 9:59:12	Peak Integrated by Software
AR1242CCC50 0	PO108135.D	AR-1242-3 #2	yogesh	11/21/2024 8:45:47 AM	Ankita	11/21/2024 9:59:18	Peak Integrated by Software
AR1242CCC50 0	PO108150.D	AR-1242-3 #2	yogesh	11/21/2024 2:50:31 PM	Ankita	11/21/2024 2:50:54	Peak Integrated by Software
AR1242CCC50 0	PO108150.D	AR-1242-4 #2	yogesh	11/21/2024 2:50:31 PM	Ankita	11/21/2024 2:50:54	Peak Integrated by Software
AR1242CCC50 0	PO108150.D	AR-1242-5 #2	yogesh	11/21/2024 2:50:31 PM	Ankita	11/21/2024 2:50:54	Peak Integrated by Software
AR1254CCC50 0	PO108152.D	AR-1254-1 #2	yogesh	11/21/2024 8:45:55 AM	Ankita	11/21/2024 9:59:24	Peak Integrated by Software
AR1254CCC50 0	PO108152.D	AR-1254-2 #2	yogesh	11/21/2024 8:45:55 AM	Ankita	11/21/2024 9:59:24	Peak Integrated by Software
AR1254CCC50 0	PO108152.D	AR-1254-3 #2	yogesh	11/21/2024 8:45:55 AM	Ankita	11/21/2024 9:59:24	Peak Integrated by Software
AR1254CCC50 0	PO108152.D	AR-1254-4 #2	yogesh	11/21/2024 8:45:55 AM	Ankita	11/21/2024 9:59:24	Peak Integrated by Software
AR1242CCC50 0	PO108160.D	AR-1242-3 #2	yogesh	11/21/2024 8:45:57 AM	Ankita	11/21/2024 9:59:25	Peak Integrated by Software
AR1242CCC50 0	PO108160.D	AR-1242-4 #2	yogesh	11/21/2024 8:45:57 AM	Ankita	11/21/2024 9:59:25	Peak Integrated by Software
AR1242CCC50 0	PO108160.D	AR-1242-5	yogesh	11/21/2024 8:45:57 AM	Ankita	11/21/2024 9:59:25	Peak Integrated by Software
AR1242CCC50 0	PO108160.D	AR-1242-5 #2	yogesh	11/21/2024 8:45:57 AM	Ankita	11/21/2024 9:59:25	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PO112024	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PO108162.D	AR-1254-1 #2	yogesh	11/21/2024 8:45:59 AM	Ankita	11/21/2024 9:59:27	Peak Integrated by Software
AR1254CCC500	PO108162.D	AR-1254-2 #2	yogesh	11/21/2024 8:45:59 AM	Ankita	11/21/2024 9:59:27	Peak Integrated by Software
AR1254CCC500	PO108162.D	AR-1254-3 #2	yogesh	11/21/2024 8:45:59 AM	Ankita	11/21/2024 9:59:27	Peak Integrated by Software
AR1254CCC500	PO108162.D	AR-1254-4	yogesh	11/21/2024 8:45:59 AM	Ankita	11/21/2024 9:59:27	Peak Integrated by Software
AR1254CCC500	PO108162.D	AR-1254-4 #2	yogesh	11/21/2024 8:45:59 AM	Ankita	11/21/2024 9:59:27	Peak Integrated by Software

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	PO108034.D	18 Nov 2024 09:01	YP/AJ	Ok
2	AR1660CCC500	PO108035.D	18 Nov 2024 10:59	YP/AJ	Not Ok
3	HEXANE	PO108036.D	18 Nov 2024 15:00	YP/AJ	Ok
4	I.BLK	PO108037.D	18 Nov 2024 15:16	YP/AJ	Ok
5	AR1660ICC1000	PO108038.D	18 Nov 2024 15:32	YP/AJ	Ok
6	AR1660ICC750	PO108039.D	18 Nov 2024 15:48	YP/AJ	Ok
7	AR1660ICC500	PO108040.D	18 Nov 2024 16:05	YP/AJ	Ok
8	AR1660ICC250	PO108041.D	18 Nov 2024 16:21	YP/AJ	Ok
9	AR1660ICC050	PO108042.D	18 Nov 2024 16:37	YP/AJ	Ok,M
10	AR1221ICC500	PO108043.D	18 Nov 2024 16:53	YP/AJ	Ok
11	AR1232ICC500	PO108044.D	18 Nov 2024 17:09	YP/AJ	Ok
12	AR1242ICC1000	PO108045.D	18 Nov 2024 17:25	YP/AJ	Ok
13	AR1242ICC750	PO108046.D	18 Nov 2024 17:42	YP/AJ	Ok
14	AR1242ICC500	PO108047.D	18 Nov 2024 17:58	YP/AJ	Ok
15	AR1242ICC250	PO108048.D	18 Nov 2024 18:14	YP/AJ	Ok
16	AR1242ICC050	PO108049.D	18 Nov 2024 18:30	YP/AJ	Ok,M
17	AR1248ICC1000	PO108050.D	18 Nov 2024 18:47	YP/AJ	Ok
18	AR1248ICC750	PO108051.D	18 Nov 2024 19:03	YP/AJ	Ok
19	AR1248ICC500	PO108052.D	18 Nov 2024 19:19	YP/AJ	Ok
20	AR1248ICC250	PO108053.D	18 Nov 2024 19:35	YP/AJ	Ok
21	AR1248ICC050	PO108054.D	18 Nov 2024 19:51	YP/AJ	Ok,M

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	AR1254ICC1000	PO108055.D	18 Nov 2024 20:07	YP/AJ	Ok
23	AR1254ICC750	PO108056.D	18 Nov 2024 20:24	YP/AJ	Ok
24	AR1254ICC500	PO108057.D	18 Nov 2024 20:40	YP/AJ	Ok
25	AR1254ICC250	PO108058.D	18 Nov 2024 20:56	YP/AJ	Ok
26	AR1254ICC050	PO108059.D	18 Nov 2024 21:12	YP/AJ	Ok,M
27	AR1262ICC500	PO108060.D	18 Nov 2024 21:28	YP/AJ	Ok
28	AR1268ICC1000	PO108061.D	18 Nov 2024 21:45	YP/AJ	Ok
29	AR1268ICC750	PO108062.D	18 Nov 2024 22:02	YP/AJ	Ok,M
30	AR1268ICC500	PO108063.D	18 Nov 2024 22:19	YP/AJ	Ok,M
31	AR1268ICC250	PO108064.D	18 Nov 2024 22:35	YP/AJ	Ok
32	AR1268ICC050	PO108065.D	18 Nov 2024 22:51	YP/AJ	Ok
33	PO111824ICV500	PO108066.D	18 Nov 2024 23:08	YP/AJ	Ok
34	AR1242ICV500	PO108067.D	18 Nov 2024 23:24	YP/AJ	Ok
35	AR1248ICV500	PO108068.D	18 Nov 2024 23:41	YP/AJ	Ok
36	AR1254ICV500	PO108069.D	18 Nov 2024 23:58	YP/AJ	Ok
37	AR1268ICV500	PO108070.D	19 Nov 2024 00:14	YP/AJ	Ok,M
38	AR1660CCC500	PO108071.D	19 Nov 2024 00:31	YP/AJ	Ok
39	I.BLK	PO108072.D	19 Nov 2024 00:48	YP/AJ	Ok
40	PB165043BL	PO108073.D	19 Nov 2024 01:04	YP/AJ	Ok
41	PB165043BS	PO108074.D	19 Nov 2024 01:20	YP/AJ	Ok
42	P4860-01	PO108075.D	19 Nov 2024 01:37	YP/AJ	Ok,M
43	P4860-01MS	PO108076.D	19 Nov 2024 01:54	YP/AJ	Ok,M
44	P4860-01MSD	PO108077.D	19 Nov 2024 02:10	YP/AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	

45	P4860-02	PO108078.D	19 Nov 2024 02:26	YP/AJ	Ok,M
46	P4860-03	PO108079.D	19 Nov 2024 02:42	YP/AJ	Ok,M
47	P4860-04	PO108080.D	19 Nov 2024 02:59	YP/AJ	Ok
48	P4860-05	PO108081.D	19 Nov 2024 03:16	YP/AJ	Ok
49	P4860-06	PO108082.D	19 Nov 2024 03:33	YP/AJ	Ok
50	P4860-07	PO108083.D	19 Nov 2024 03:49	YP/AJ	Ok
51	P4860-08	PO108084.D	19 Nov 2024 04:06	YP/AJ	Ok
52	P4860-09	PO108085.D	19 Nov 2024 04:23	YP/AJ	Ok
53	P4860-10	PO108086.D	19 Nov 2024 04:39	YP/AJ	Ok
54	AR1660CCC500	PO108087.D	19 Nov 2024 04:56	YP/AJ	Ok
55	I.BLK	PO108088.D	19 Nov 2024 05:12	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111924

Review By	yogesh	Review On	11/20/2024 8:01:05 AM		
Supervise By	Ankita	Supervise On	11/20/2024 12:02:13 PM		
SubDirectory	PO111924	HP Acquire Method		HP Processing Method	PO111824

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	PO108089.D	19 Nov 2024 09:22	YP/AJ	Ok
2	AR1660CCC500	PO108090.D	19 Nov 2024 09:37	YP/AJ	Ok
3	AR1242CCC500	PO108091.D	19 Nov 2024 09:53	YP/AJ	Ok
4	AR1248CCC500	PO108092.D	19 Nov 2024 10:10	YP/AJ	Ok
5	AR1254CCC500	PO108093.D	19 Nov 2024 10:26	YP/AJ	Ok
6	I.BLK	PO108094.D	19 Nov 2024 10:42	YP/AJ	Ok
7	PB165092BL	PO108095.D	19 Nov 2024 14:11	YP/AJ	Not Ok
8	PB165092BS	PO108096.D	19 Nov 2024 14:25	YP/AJ	Not Ok
9	P4892-01	PO108097.D	19 Nov 2024 14:40	YP/AJ	Ok,M
10	P4892-02	PO108098.D	19 Nov 2024 14:57	YP/AJ	Ok
11	P4893-01	PO108099.D	19 Nov 2024 15:13	YP/AJ	Ok,M
12	P4893-01MS	PO108100.D	19 Nov 2024 15:30	YP/AJ	Ok,M
13	P4893-01MSD	PO108101.D	19 Nov 2024 15:47	YP/AJ	Ok,M
14	P4893-05	PO108102.D	19 Nov 2024 16:03	YP/AJ	Ok
15	AR1660CCC500	PO108103.D	19 Nov 2024 16:34	YP/AJ	Ok
16	AR1242CCC500	PO108104.D	19 Nov 2024 16:50	YP/AJ	Ok
17	AR1248CCC500	PO108105.D	19 Nov 2024 17:06	YP/AJ	Ok
18	AR1254CCC500	PO108106.D	19 Nov 2024 17:23	YP/AJ	Ok
19	I.BLK	PO108107.D	19 Nov 2024 17:40	YP/AJ	Ok
20	P4908-01	PO108108.D	19 Nov 2024 17:56	YP/AJ	Ok
21	P4908-03	PO108109.D	19 Nov 2024 18:12	YP/AJ	Ok,M

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111924

Review By	yogesh	Review On	11/20/2024 8:01:05 AM		
Supervise By	Ankita	Supervise On	11/20/2024 12:02:13 PM		
SubDirectory	PO111924	HP Acquire Method		HP Processing Method	PO111824

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	P4909-01	PO108110.D	19 Nov 2024 18:28	YP/AJ	Ok,M
23	P4910-01	PO108111.D	19 Nov 2024 18:45	YP/AJ	Ok
24	P4910-05	PO108112.D	19 Nov 2024 19:02	YP/AJ	Ok,M
25	AR1660CCC500	PO108113.D	19 Nov 2024 20:03	YP/AJ	Ok
26	AR1242CCC500	PO108114.D	19 Nov 2024 20:19	YP/AJ	Ok
27	AR1248CCC500	PO108115.D	19 Nov 2024 20:36	YP/AJ	Ok
28	AR1254CCC500	PO108116.D	19 Nov 2024 20:53	YP/AJ	Ok
29	I.BLK	PO108117.D	19 Nov 2024 21:10	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	PO108118.D	20 Nov 2024 09:05	YP/AJ	Ok
2	AR1660CCC500	PO108119.D	20 Nov 2024 09:21	YP/AJ	Ok
3	AR1242CCC500	PO108120.D	20 Nov 2024 09:38	YP/AJ	Ok
4	AR1248CCC500	PO108121.D	20 Nov 2024 09:54	YP/AJ	Ok
5	AR1254CCC500	PO108122.D	20 Nov 2024 10:10	YP/AJ	Ok
6	I.BLK	PO108123.D	20 Nov 2024 10:27	YP/AJ	Ok
7	PB165082BL	PO108124.D	20 Nov 2024 11:12	YP/AJ	Ok
8	PB165082BS	PO108125.D	20 Nov 2024 11:29	YP/AJ	Ok,M
9	PB165126BL	PO108126.D	20 Nov 2024 12:25	YP/AJ	Ok
10	PB165126BS	PO108127.D	20 Nov 2024 12:42	YP/AJ	Ok,M
11	P4916-01	PO108128.D	20 Nov 2024 12:59	YP/AJ	Ok
12	P4916-01MS	PO108129.D	20 Nov 2024 13:15	YP/AJ	Ok,M
13	P4916-01MSD	PO108130.D	20 Nov 2024 13:31	YP/AJ	Ok,M
14	P4916-05	PO108131.D	20 Nov 2024 13:47	YP/AJ	Ok
15	P4916-09	PO108132.D	20 Nov 2024 14:03	YP/AJ	Ok
16	P4923-02	PO108133.D	20 Nov 2024 14:20	YP/AJ	Ok
17	AR1660CCC500	PO108134.D	20 Nov 2024 14:51	YP/AJ	Ok
18	AR1242CCC500	PO108135.D	20 Nov 2024 15:07	YP/AJ	Ok,M
19	AR1248CCC500	PO108136.D	20 Nov 2024 15:23	YP/AJ	Ok
20	AR1254CCC500	PO108137.D	20 Nov 2024 15:39	YP/AJ	Ok
21	I.BLK	PO108138.D	20 Nov 2024 15:56	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	P4927-01	PO108139.D	20 Nov 2024 16:12	YP/AJ	Ok,M
23	P4923-03	PO108140.D	20 Nov 2024 16:28	YP/AJ	Ok
24	P4923-04	PO108141.D	20 Nov 2024 16:44	YP/AJ	Ok
25	P4923-05	PO108142.D	20 Nov 2024 17:00	YP/AJ	Ok
26	P4923-06	PO108143.D	20 Nov 2024 17:16	YP/AJ	Ok,M
27	P4923-09	PO108144.D	20 Nov 2024 17:33	YP/AJ	Ok,M
28	P4924-01	PO108145.D	20 Nov 2024 17:49	YP/AJ	Ok
29	P4925-01	PO108146.D	20 Nov 2024 18:05	YP/AJ	ReRun
30	P4925-05	PO108147.D	20 Nov 2024 18:21	YP/AJ	Ok
31	P4929-01	PO108148.D	20 Nov 2024 18:37	YP/AJ	Ok
32	AR1660CCC500	PO108149.D	20 Nov 2024 19:38	YP/AJ	Ok
33	AR1242CCC500	PO108150.D	20 Nov 2024 19:55	YP/AJ	Ok,M
34	AR1248CCC500	PO108151.D	20 Nov 2024 20:12	YP/AJ	Ok
35	AR1254CCC500	PO108152.D	20 Nov 2024 20:28	YP/AJ	Ok,M
36	I.BLK	PO108153.D	20 Nov 2024 20:44	YP/AJ	Ok
37	PB165133BL	PO108154.D	20 Nov 2024 21:00	YP/AJ	Ok
38	PB165133BS	PO108155.D	20 Nov 2024 21:16	YP/AJ	Ok
39	PB165133BSD	PO108156.D	20 Nov 2024 21:33	YP/AJ	Ok
40	P4892-04	PO108157.D	20 Nov 2024 21:49	YP/AJ	Ok
41	P4921-01	PO108158.D	20 Nov 2024 22:05	YP/AJ	Ok
42	AR1660CCC500	PO108159.D	20 Nov 2024 23:06	YP/AJ	Ok
43	AR1242CCC500	PO108160.D	20 Nov 2024 23:22	YP/AJ	Ok,M
44	AR1248CCC500	PO108161.D	20 Nov 2024 23:38	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	AR1254CCC500	PO108162.D	20 Nov 2024 23:55	YP/AJ	Ok,M
46	I.BLK	PO108163.D	21 Nov 2024 00:12	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	PO108034.D	18 Nov 2024 09:01		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO108035.D	18 Nov 2024 10:59		YP/AJ	Not Ok
3	HEXANE	HEXANE	PO108036.D	18 Nov 2024 15:00		YP/AJ	Ok
4	I.BLK	I.BLK	PO108037.D	18 Nov 2024 15:16		YP/AJ	Ok
5	AR1660ICC1000	AR1660ICC1000	PO108038.D	18 Nov 2024 15:32		YP/AJ	Ok
6	AR1660ICC750	AR1660ICC750	PO108039.D	18 Nov 2024 15:48		YP/AJ	Ok
7	AR1660ICC500	AR1660ICC500	PO108040.D	18 Nov 2024 16:05		YP/AJ	Ok
8	AR1660ICC250	AR1660ICC250	PO108041.D	18 Nov 2024 16:21		YP/AJ	Ok
9	AR1660ICC050	AR1660ICC050	PO108042.D	18 Nov 2024 16:37		YP/AJ	Ok,M
10	AR1221ICC500	AR1221ICC500	PO108043.D	18 Nov 2024 16:53		YP/AJ	Ok
11	AR1232ICC500	AR1232ICC500	PO108044.D	18 Nov 2024 17:09		YP/AJ	Ok
12	AR1242ICC1000	AR1242ICC1000	PO108045.D	18 Nov 2024 17:25		YP/AJ	Ok
13	AR1242ICC750	AR1242ICC750	PO108046.D	18 Nov 2024 17:42		YP/AJ	Ok
14	AR1242ICC500	AR1242ICC500	PO108047.D	18 Nov 2024 17:58		YP/AJ	Ok
15	AR1242ICC250	AR1242ICC250	PO108048.D	18 Nov 2024 18:14		YP/AJ	Ok
16	AR1242ICC050	AR1242ICC050	PO108049.D	18 Nov 2024 18:30		YP/AJ	Ok,M
17	AR1248ICC1000	AR1248ICC1000	PO108050.D	18 Nov 2024 18:47		YP/AJ	Ok
18	AR1248ICC750	AR1248ICC750	PO108051.D	18 Nov 2024 19:03		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	AR1248ICC500	AR1248ICC500	PO108052.D	18 Nov 2024 19:19		YP/AJ	Ok
20	AR1248ICC250	AR1248ICC250	PO108053.D	18 Nov 2024 19:35		YP/AJ	Ok
21	AR1248ICC050	AR1248ICC050	PO108054.D	18 Nov 2024 19:51		YP/AJ	Ok,M
22	AR1254ICC1000	AR1254ICC1000	PO108055.D	18 Nov 2024 20:07		YP/AJ	Ok
23	AR1254ICC750	AR1254ICC750	PO108056.D	18 Nov 2024 20:24		YP/AJ	Ok
24	AR1254ICC500	AR1254ICC500	PO108057.D	18 Nov 2024 20:40		YP/AJ	Ok
25	AR1254ICC250	AR1254ICC250	PO108058.D	18 Nov 2024 20:56		YP/AJ	Ok
26	AR1254ICC050	AR1254ICC050	PO108059.D	18 Nov 2024 21:12		YP/AJ	Ok,M
27	AR1262ICC500	AR1262ICC500	PO108060.D	18 Nov 2024 21:28		YP/AJ	Ok
28	AR1268ICC1000	AR1268ICC1000	PO108061.D	18 Nov 2024 21:45		YP/AJ	Ok
29	AR1268ICC750	AR1268ICC750	PO108062.D	18 Nov 2024 22:02		YP/AJ	Ok,M
30	AR1268ICC500	AR1268ICC500	PO108063.D	18 Nov 2024 22:19		YP/AJ	Ok,M
31	AR1268ICC250	AR1268ICC250	PO108064.D	18 Nov 2024 22:35		YP/AJ	Ok
32	AR1268ICC050	AR1268ICC050	PO108065.D	18 Nov 2024 22:51		YP/AJ	Ok
33	PO111824ICV500	ICVPO111824	PO108066.D	18 Nov 2024 23:08		YP/AJ	Ok
34	AR1242ICV500	ICVPO111824AR1242	PO108067.D	18 Nov 2024 23:24		YP/AJ	Ok
35	AR1248ICV500	ICVPO111824AR1248	PO108068.D	18 Nov 2024 23:41		YP/AJ	Ok
36	AR1254ICV500	ICVPO111824AR1254	PO108069.D	18 Nov 2024 23:58		YP/AJ	Ok
37	AR1268ICV500	ICVPO111824AR1268	PO108070.D	19 Nov 2024 00:14		YP/AJ	Ok,M

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111824

Review By	yogesh	Review On	11/19/2024 9:14:18 AM		
Supervise By	Ankita	Supervise On	11/19/2024 11:25:53 AM		
SubDirectory	PO111824	HP Acquire Method		HP Processing Method	PO111824

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	

38	AR1660CCC500	AR1660CCC500	PO108071.D	19 Nov 2024 00:31		YP/AJ	Ok
39	I.BLK	I.BLK	PO108072.D	19 Nov 2024 00:48		YP/AJ	Ok
40	PB165043BL	PB165043BL	PO108073.D	19 Nov 2024 01:04		YP/AJ	Ok
41	PB165043BS	PB165043BS	PO108074.D	19 Nov 2024 01:20		YP/AJ	Ok
42	P4860-01	DUP-01	PO108075.D	19 Nov 2024 01:37		YP/AJ	Ok,M
43	P4860-01MS	DUP-01MS	PO108076.D	19 Nov 2024 01:54		YP/AJ	Ok,M
44	P4860-01MSD	DUP-01MSD	PO108077.D	19 Nov 2024 02:10		YP/AJ	Ok,M
45	P4860-02	PH2-BOT-001	PO108078.D	19 Nov 2024 02:26		YP/AJ	Ok,M
46	P4860-03	PH2-BOT-002	PO108079.D	19 Nov 2024 02:42		YP/AJ	Ok,M
47	P4860-04	PH2-BOT-003	PO108080.D	19 Nov 2024 02:59		YP/AJ	Ok
48	P4860-05	PH2-BOT-004	PO108081.D	19 Nov 2024 03:16		YP/AJ	Ok
49	P4860-06	PH2-BOT-009	PO108082.D	19 Nov 2024 03:33		YP/AJ	Ok
50	P4860-07	PH2-BOT-008	PO108083.D	19 Nov 2024 03:49		YP/AJ	Ok
51	P4860-08	PH2-BOT-007	PO108084.D	19 Nov 2024 04:06		YP/AJ	Ok
52	P4860-09	PH2-BOT-006	PO108085.D	19 Nov 2024 04:23		YP/AJ	Ok
53	P4860-10	PH2-BOT-005	PO108086.D	19 Nov 2024 04:39		YP/AJ	Ok
54	AR1660CCC500	AR1660CCC500	PO108087.D	19 Nov 2024 04:56		YP/AJ	Ok
55	I.BLK	I.BLK	PO108088.D	19 Nov 2024 05:12		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111924

Review By	yogesh	Review On	11/20/2024 8:01:05 AM		
Supervise By	Ankita	Supervise On	11/20/2024 12:02:13 PM		
SubDirectory	PO111924	HP Acquire Method		HP Processing Method	PO111824

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	PO108089.D	19 Nov 2024 09:22		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO108090.D	19 Nov 2024 09:37		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO108091.D	19 Nov 2024 09:53		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO108092.D	19 Nov 2024 10:10		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO108093.D	19 Nov 2024 10:26		YP/AJ	Ok
6	I.BLK	I.BLK	PO108094.D	19 Nov 2024 10:42		YP/AJ	Ok
7	PB165092BL	PB165092BL	PO108095.D	19 Nov 2024 14:11	injected with wrong method	YP/AJ	Not Ok
8	PB165092BS	PB165092BS	PO108096.D	19 Nov 2024 14:25	injected with wrong method	YP/AJ	Not Ok
9	P4892-01	WB-310-TOP	PO108097.D	19 Nov 2024 14:40		YP/AJ	Ok,M
10	P4892-02	WB-310-BOT	PO108098.D	19 Nov 2024 14:57		YP/AJ	Ok
11	P4893-01	MH-763	PO108099.D	19 Nov 2024 15:13		YP/AJ	Ok,M
12	P4893-01MS	MH-763MS	PO108100.D	19 Nov 2024 15:30		YP/AJ	Ok,M
13	P4893-01MSD	MH-763MSD	PO108101.D	19 Nov 2024 15:47		YP/AJ	Ok,M
14	P4893-05	MH-762	PO108102.D	19 Nov 2024 16:03		YP/AJ	Ok
15	AR1660CCC500	AR1660CCC500	PO108103.D	19 Nov 2024 16:34		YP/AJ	Ok
16	AR1242CCC500	AR1242CCC500	PO108104.D	19 Nov 2024 16:50		YP/AJ	Ok
17	AR1248CCC500	AR1248CCC500	PO108105.D	19 Nov 2024 17:06		YP/AJ	Ok
18	AR1254CCC500	AR1254CCC500	PO108106.D	19 Nov 2024 17:23		YP/AJ	Ok

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO111924

Review By	yogesh	Review On	11/20/2024 8:01:05 AM		
Supervise By	Ankita	Supervise On	11/20/2024 12:02:13 PM		
SubDirectory	PO111924	HP Acquire Method		HP Processing Method	PO111824

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	I.BLK	I.BLK	PO108107.D	19 Nov 2024 17:40		YP/AJ	Ok
20	P4908-01	SP-1	PO108108.D	19 Nov 2024 17:56		YP/AJ	Ok
21	P4908-03	SP-2	PO108109.D	19 Nov 2024 18:12		YP/AJ	Ok,M
22	P4909-01	BU-02-111824	PO108110.D	19 Nov 2024 18:28		YP/AJ	Ok,M
23	P4910-01	MH-COTTAGE	PO108111.D	19 Nov 2024 18:45		YP/AJ	Ok
24	P4910-05	MH-759	PO108112.D	19 Nov 2024 19:02		YP/AJ	Ok,M
25	AR1660CCC500	AR1660CCC500	PO108113.D	19 Nov 2024 20:03		YP/AJ	Ok
26	AR1242CCC500	AR1242CCC500	PO108114.D	19 Nov 2024 20:19		YP/AJ	Ok
27	AR1248CCC500	AR1248CCC500	PO108115.D	19 Nov 2024 20:36		YP/AJ	Ok
28	AR1254CCC500	AR1254CCC500	PO108116.D	19 Nov 2024 20:53		YP/AJ	Ok
29	I.BLK	I.BLK	PO108117.D	19 Nov 2024 21:10		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	PO108118.D	20 Nov 2024 09:05		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO108119.D	20 Nov 2024 09:21		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO108120.D	20 Nov 2024 09:38		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO108121.D	20 Nov 2024 09:54		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO108122.D	20 Nov 2024 10:10	AR1254 1st peak low in 1st column	YP/AJ	Ok
6	I.BLK	I.BLK	PO108123.D	20 Nov 2024 10:27		YP/AJ	Ok
7	PB165082BL	PB165082BL	PO108124.D	20 Nov 2024 11:12		YP/AJ	Ok
8	PB165082BS	PB165082BS	PO108125.D	20 Nov 2024 11:29		YP/AJ	Ok,M
9	PB165126BL	PB165126BL	PO108126.D	20 Nov 2024 12:25		YP/AJ	Ok
10	PB165126BS	PB165126BS	PO108127.D	20 Nov 2024 12:42		YP/AJ	Ok,M
11	P4916-01	TP-1-WC	PO108128.D	20 Nov 2024 12:59		YP/AJ	Ok
12	P4916-01MS	TP-1-WCMS	PO108129.D	20 Nov 2024 13:15		YP/AJ	Ok,M
13	P4916-01MSD	TP-1-WCMSD	PO108130.D	20 Nov 2024 13:31		YP/AJ	Ok,M
14	P4916-05	TP-2-WC	PO108131.D	20 Nov 2024 13:47		YP/AJ	Ok
15	P4916-09	TP-3-WC	PO108132.D	20 Nov 2024 14:03		YP/AJ	Ok
16	P4923-02	COMP-1	PO108133.D	20 Nov 2024 14:20		YP/AJ	Ok
17	AR1660CCC500	AR1660CCC500	PO108134.D	20 Nov 2024 14:51		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	AR1242CCC500	AR1242CCC500	PO108135.D	20 Nov 2024 15:07		YP/AJ	Ok,M
19	AR1248CCC500	AR1248CCC500	PO108136.D	20 Nov 2024 15:23		YP/AJ	Ok
20	AR1254CCC500	AR1254CCC500	PO108137.D	20 Nov 2024 15:39	AR1254 1st peak low in 1st column	YP/AJ	Ok
21	I.BLK	I.BLK	PO108138.D	20 Nov 2024 15:56		YP/AJ	Ok
22	P4927-01	111424-C	PO108139.D	20 Nov 2024 16:12		YP/AJ	Ok,M
23	P4923-03	COMP-2	PO108140.D	20 Nov 2024 16:28		YP/AJ	Ok
24	P4923-04	COMP-3	PO108141.D	20 Nov 2024 16:44	AR1254 Hit	YP/AJ	Ok
25	P4923-05	COMP-4	PO108142.D	20 Nov 2024 17:00		YP/AJ	Ok
26	P4923-06	72-11991	PO108143.D	20 Nov 2024 17:16		YP/AJ	Ok,M
27	P4923-09	SOM-24-00118	PO108144.D	20 Nov 2024 17:33		YP/AJ	Ok,M
28	P4924-01	MH-4	PO108145.D	20 Nov 2024 17:49		YP/AJ	Ok
29	P4925-01	MH-741	PO108146.D	20 Nov 2024 18:05	TCMX high in both column	YP/AJ	ReRun
30	P4925-05	MH-758	PO108147.D	20 Nov 2024 18:21		YP/AJ	Ok
31	P4929-01	ARS520	PO108148.D	20 Nov 2024 18:37		YP/AJ	Ok
32	AR1660CCC500	AR1660CCC500	PO108149.D	20 Nov 2024 19:38		YP/AJ	Ok
33	AR1242CCC500	AR1242CCC500	PO108150.D	20 Nov 2024 19:55		YP/AJ	Ok,M
34	AR1248CCC500	AR1248CCC500	PO108151.D	20 Nov 2024 20:12		YP/AJ	Ok
35	AR1254CCC500	AR1254CCC500	PO108152.D	20 Nov 2024 20:28	AR1254 1st peak low in 1st column	YP/AJ	Ok,M
36	I.BLK	I.BLK	PO108153.D	20 Nov 2024 20:44		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO112024

Review By	yogesh	Review On	11/21/2024 8:46:17 AM		
Supervise By	Ankita	Supervise On	11/21/2024 9:59:34 AM		
SubDirectory	PO112024	HP Acquire Method		HP Processing Method	PO111824

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	PB165133BL	PB165133BL	PO108154.D	20 Nov 2024 21:00		YP/AJ	Ok
38	PB165133BS	PB165133BS	PO108155.D	20 Nov 2024 21:16		YP/AJ	Ok
39	PB165133BSD	PB165133BSD	PO108156.D	20 Nov 2024 21:33		YP/AJ	Ok
40	P4892-04	WB-310-SW	PO108157.D	20 Nov 2024 21:49		YP/AJ	Ok
41	P4921-01	WC-11-A-202411	PO108158.D	20 Nov 2024 22:05		YP/AJ	Ok
42	AR1660CCC500	AR1660CCC500	PO108159.D	20 Nov 2024 23:06		YP/AJ	Ok
43	AR1242CCC500	AR1242CCC500	PO108160.D	20 Nov 2024 23:22		YP/AJ	Ok,M
44	AR1248CCC500	AR1248CCC500	PO108161.D	20 Nov 2024 23:38		YP/AJ	Ok
45	AR1254CCC500	AR1254CCC500	PO108162.D	20 Nov 2024 23:55	AR1254 1st peak low in 1st column	YP/AJ	Ok,M
46	I.BLK	I.BLK	PO108163.D	21 Nov 2024 00:12		YP/AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB165082

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	11/19/2024
Matrix :	Solid			**Extraction Start Time :**	08:25
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/19/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP23913
Surrogate	1.0ML	200 PPB	PP23985
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	N/A	E3826
Baked Na2SO4	N/A	EP2562
H2SO4 1:1	N/A	EP2548
Sand	N/A	E2865
Hexane/Acetone/1:1	N/A	EP2561
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24	RP (Ext Lab)	AJ (GST PCB Lab)
11:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165082

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/19/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165082BL	ABLK082	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB165082BS	ALCS082	PCB	30.03	N/A	ritesh	Evelyn	10			2
P4892-01	WB-310-TOP	PCB	30.06	N/A	ritesh	Evelyn	10	E		3
P4892-02	WB-310-BOT	PCB	30.02	N/A	ritesh	Evelyn	10	E		4
P4893-01	MH-763	PCB	30.07	N/A	ritesh	Evelyn	10	B		5
P4893-01MS	MH-763MS	PCB	30.03	N/A	ritesh	Evelyn	10	B		6
P4893-01MSD	MH-763MSD	PCB	30.08	N/A	ritesh	Evelyn	10	B		U6-1
P4893-05	MH-762	PCB	30.10	N/A	ritesh	Evelyn	10	B		2
P4908-01	SP-1	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
P4908-03	SP-2	PCB	30.02	N/A	ritesh	Evelyn	10	E		4
P4909-01	BU-02-111824	PCB	30.03	N/A	ritesh	Evelyn	10	B		5
P4910-01	MH-COTTAGE	PCB	30.06	N/A	ritesh	Evelyn	10	B		6
P4910-05	MH-759	PCB	30.08	N/A	ritesh	Evelyn	10	B		U5-1

* **Extracts relinquished on the same date as received.**

11/19/24

P4892

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4888p **WorkList ID :** 185550 **Department :** Extraction **Date :** 11-19-2024 08:20:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4888-01	01A-01B-01C	Solid	PCB Group1	Cool 4 deg C	BSIG01	M11	11/14/2024	8082A
P4888-02	02A-02B-02C	Solid	PCB Group1	Cool 4 deg C	BSIG01	M11	11/14/2024	8082A
P4892-01	WB-310-TOP	Solid	PCB	Cool 4 deg C	PORT06	M11	11/15/2024	8082A
P4892-02	WB-310-BOT	Solid	PCB	Cool 4 deg C	PORT06	M11	11/15/2024	8082A
P4893-01	MH-763	Solid	PCB	Cool 4 deg C	PSEG03	L51	11/16/2024	8082A
P4893-05	MH-762	Solid	PCB	Cool 4 deg C	PSEG03	L51	11/16/2024	8082A
P4908-01	SP-1	Solid	PCB	Cool 4 deg C	PSEG03	L51	11/18/2024	8082A
P4908-03	SP-2	Solid	PCB	Cool 4 deg C	PSEG03	L51	11/18/2024	8082A
P4909-01	BU-02-111824	Solid	PCB	Cool 4 deg C	PSEG05	L51	11/18/2024	8082A
P4910-01	MH-COTTAGE	Solid	PCB	Cool 4 deg C	PSEG03	L61	11/18/2024	8082A
P4910-05	MH-759	Solid	PCB	Cool 4 deg C	PSEG03	L61	11/18/2024	8082A

739 of 1349

Date/Time 11/19/24 8:23
Raw Sample Received by: RJ (Set Lab)
Raw Sample Relinquished by: CP SM

Date/Time 11/19/24 9:00
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Set Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165133

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	11/20/2024
Matrix :	Water			**Extraction Start Time :**	08:35
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	11/20/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	200 PPB	PP23858
Spike Sol 1	1.0ML	5000 PPB	PP23913
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3828
Baked Na2SO4	N/A	EP2562
Hexane	N/A	E3826
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.P4890-03 Limited volume used as sample is Oily matrix. P 4892-04 Limited volume recd.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RP (Ext Lab)	AJ TEST PCB Lab
13:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165133

Analytical Method: M3510C,3580A-Extraction PCB-14 **Concentration Date:** 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165133BL	ABLK133	PCB	1000	6	RUPESH	ritesh	10			SEP-1
PB165133BS	ALCS133	PCB	1000	6	RUPESH	ritesh	10			2
PB165133BSD	ALCSD133	PCB	1000	6	RUPESH	ritesh	10			3
P4892-04	WB-310-SW	PCB	485	6	RUPESH	ritesh	5	E		4
P4921-01	WC-11-A-202411	PCB	990	6	RUPESH	ritesh	10	M		5
P4927-01	111424-C	PCB	100	6	RUPESH	ritesh	10	D	Oily	6

* **Extracts relinquished on the same date as received.**

11/20/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4862P **WorkList ID :** 185601 **Department :** Extraction **Date :** 11-20-2024 08:27:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-04	WB-310-SW	Water	PCB	Cool 4 deg C	PORT06	M11	11/15/2024	8082A
P4921-01	WC-11-A-202411	Water	PCB	Cool 4 deg C	AECO02	L61	11/19/2024	8082A
P4927-01	111424-C	Water	PCB	Cool 4 deg C	PSEG03	L61	11/19/2024	8082A

Date/Time 11/20/24 8:30
Raw Sample Received by: RJ (Eurofins)
Raw Sample Relinquished by: JT(SM)

Date/Time 11/20/24 9:05
Raw Sample Received by: JT(SM)
Raw Sample Relinquished by: RJ (Eurofins Lan

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
P4892-04	**WB-310-SW**	**WATER**			**11/15/24**			**11/15/24**
			PCB	8082A		11/20/24	11/20/24	

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	59.8
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
11/21/24 08:35	11/22/24 12:44	PB165188

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.54	J	1	0.64	1.67	mg/kg	FC067852.D
Aliphatic C12-C16	Aliphatic C12-C16	7.77		1	0.40	1.11	mg/kg	FC067852.D
Aliphatic C16-C21	Aliphatic C16-C21	14.2		1	0.50	1.67	mg/kg	FC067852.D
Aliphatic C21-C28	Aliphatic C21-C28	22.8		1	1.34	2.23	mg/kg	FC067852.D
Aliphatic C28-C40	Aliphatic C28-C40	32.8		1	3.01	3.34	mg/kg	FC067852.D
Aromatic C10-C12	Aromatic C10-C12	0.76	J	1	0.50	1.11	mg/kg	FD048803.D
Aromatic C12-C16	Aromatic C12-C16	7.27		1	0.57	1.67	mg/kg	FD048803.D
Aromatic C16-C21	Aromatic C16-C21	11.3		1	1.60	2.78	mg/kg	FD048803.D
Aromatic C21-C36	Aromatic C21-C36	29.1		1	3.34	4.45	mg/kg	FD048803.D
Total AliphaticEPH	Total AliphaticEPH	79.1			5.89	10.0	mg/kg	
Total AromaticEPH	Total AromaticEPH	48.4			6.01	10.0	mg/kg	
Total EPH	Total EPH	128			11.9	20.0	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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	59.8
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
FC067852.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		1.54	J	0.64	1.67	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		7.77		0.40	1.11	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.2		0.50	1.67	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		22.8		1.34	2.23	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		32.8		3.01	3.34	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:	P4892-01	Acq On:	22 Nov 2024 12:44
Client Sample ID:	WB-310-TOP	Operator:	YP/AJ
Data file:	FC067852.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.186	6.463	2294732	13.841	300	ug/ml
Aliphatic C12-C16	6.464	9.851	11886575	69.763	200	ug/ml
Aliphatic C16-C21	9.852	13.208	21659099	127.691	300	ug/ml
Aliphatic C21-C28	13.209	16.863	32148899	204.405	400	ug/ml
Aliphatic C28-C40	16.864	21.709	35658378	294.426	600	ug/ml
Aliphatic EPH	3.186	21.709	103647683	710.127		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	4795266	33.03		ug/ml
Aliphatic C9-C28	3.186	16.863	67989305	415.7	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	59.8
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
FD048803.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.76	J	0.50	1.11	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.27		0.57	1.67	mg/kg
Aromatic C16-C21	Aromatic C16-C21	11.3		1.60	2.78	mg/kg
Aromatic C21-C36	Aromatic C21-C36	29.1		3.34	4.45	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.3		40 - 140	113%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.3		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.8		40 - 140	78%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4892-01	Acq On:	22 Nov 2024 12:44
Client Sample ID:	WB-310-TOP	Operator:	YP/AJ
Data file:	FD048803.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.804	1312729	6.837	200	ug/ml
Aromatic C12-C16	5.805	8.412	12564747	65.285	300	ug/ml
Aromatic C16-C21	8.413	12.677	18849210	101.446	500	ug/ml
Aromatic C21-C36	12.678	18.087	41095698	261.371	800	ug/ml
Aromatic EPH	4.088	18.087	73822384	434.94		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7455545	38.76		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9909110	56.28		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5558802	48.27		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/21/24 08:35	11/22/24 13:20	PB165188

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	1.16	mg/kg	FC067853.D
Aliphatic C12-C16	Aliphatic C12-C16	0.28	U	1	0.28	0.77	mg/kg	FC067853.D
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	1	0.35	1.16	mg/kg	FC067853.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.55	mg/kg	FC067853.D
Aliphatic C28-C40	Aliphatic C28-C40	2.09	U	1	2.09	2.32	mg/kg	FC067853.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FD048804.D
Aromatic C12-C16	Aromatic C12-C16	0.40	U	1	0.40	1.16	mg/kg	FD048804.D
Aromatic C16-C21	Aromatic C16-C21	1.11	U	1	1.11	1.93	mg/kg	FD048804.D
Aromatic C21-C36	Aromatic C21-C36	2.32	U	1	2.32	3.10	mg/kg	FD048804.D
Total AliphaticEPH	Total AliphaticEPH	4.09	U		4.09	6.96	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.17	U		4.17	6.96	mg/kg	
Total EPH	Total EPH	8.26	U		8.26	13.9	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FC067853.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.16	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.28	U	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.35	U	0.35	1.16	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.93	U	0.93	1.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.09	U	2.09	2.32	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.1		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4892-02	Acq On:	22 Nov 2024 13:20
Client Sample ID:	WB-310-BOT	Operator:	YP/AJ
Data file:	FC067853.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	3.186	6.463	119997	0.724	300	ug/ml
Aliphatic C12-C16	6.464	9.851	83434	0.49	200	ug/ml
Aliphatic C16-C21	9.852	13.208	0	0	300	ug/ml
Aliphatic C21-C28	13.209	16.863	0	0	400	ug/ml
Aliphatic C28-C40	16.864	21.709	0	0	600	ug/ml
Aliphatic EPH	3.186	21.709	203431	1.213		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	5536947	38.14		ug/ml
Aliphatic C9-C28	3.186	16.863	203431	1.214	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FD048804.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.40	U	0.40	1.16	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.11	U	1.11	1.93	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.32	U	2.32	3.10	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.5		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.3		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.6		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4892-02	Acq On:	22 Nov 2024 13:20
Client Sample ID:	WB-310-BOT	Operator:	YP/AJ
Data file:	FD048804.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	4.088	5.804	131347	0.684	200	ug/ml
Aromatic C12-C16	5.805	8.412	0	0	300	ug/ml
Aromatic C16-C21	8.413	12.677	1499399	8.07	500	ug/ml
Aromatic C21-C36	12.678	18.087	2220693	14.124	800	ug/ml
Aromatic EPH	4.088	18.087	3851439	22.878		ug/ml
2-Bromonaphthalene (SURR)	7.366	7.366	8364500	47.51		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	5561237	48.29		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	6462912	33.6		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/20/24 08:28	11/21/24 13:08	PB165151

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	FC067843.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC067843.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC067843.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC067843.D
Aliphatic C28-C40	Aliphatic C28-C40	24.3	J	1	17.0	60.0	ug/l	FC067843.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048794.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048794.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048794.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048794.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	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
FC067843.D	1	11/20/24	11/21/24	PB165151

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	24.3	J	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.1		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4892-04	Acq On:	21 Nov 2024 13:08
Client Sample ID:	WB-310-SW	Operator:	YP/AJ
Data file:	FC067843.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.186	6.463	36846	0.222	300	ug/ml
Aliphatic C12-C16	6.464	9.851	50624	0.297	200	ug/ml
Aliphatic C16-C21	9.852	13.208	174896	1.031	300	ug/ml
Aliphatic C21-C28	13.209	16.863	0	0	400	ug/ml
Aliphatic C28-C40	16.864	21.710	1473685	12.168	600	ug/ml
Aliphatic EPH	3.186	21.710	1736051	13.718		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5964500	41.09		ug/ml
Aliphatic C9-C28	3.186	16.863	262366	1.55	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	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
FD048794.D	1	11/20/24	11/21/24	PB165151

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)	47.9		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.9		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.1		40 - 140	92%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4892-04	Acq On:	21 Nov 2024 13:08
Client Sample ID:	WB-310-SW	Operator:	YP/AJ
Data file:	FD048794.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	106190	0.553	200	ug/ml
Aromatic C12-C16	5.806	8.411	0	0	300	ug/ml
Aromatic C16-C21	8.412	12.676	964032	5.188	500	ug/ml
Aromatic C21-C36	12.677	18.084	1970742	12.534	800	ug/ml
Aromatic EPH	4.088	18.084	3040964	18.275		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8435681	47.91		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	5633975	48.92		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	8871010	46.12		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4892 SAS No.: P4892 SDG No.: P4892

Run Number: FC112124AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-310-SW	82			0
PB165151BL	70			0
PB165151BS	69			0
PB165151BSD	72			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.: P4892 SAS No.: P4892 SDG No.: P4892

Run Number: FC112224AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-310-TOP	66			0
WB-310-BOT	76			0
WB-310-BOTMS	73			0
WB-310-BOTMSD	73			0
PB165188BL	71			0
PB165188BS	70			0
PB165188BSD	73			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.: P4892 SAS No.: P4892 SDG No.: P4892

Run Number: FD112124AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-310-SW	96	98	92	0
PB165151BL	128	117	117	0
PB165151BS	108	98	93	0
PB165151BSD	106	98	92	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.: P4892 SAS No.: P4892 SDG No.: P4892

Run Number: FD112224AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-310-TOP	113	97	78	0
WB-310-BOT	95	97	67	0
WB-310-BOTMS	103	100	69	0
WB-310-BOTMSD	104	100	70	0
PB165188BL	127	116	114	0
PB165188BS	110	101	94	0
PB165188BSD	110	101	94	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : P4892-02MS **Datafile:** FC067855.D

Client ID : WB-310-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.6	0	8.97	77		(40-140)
Aliphatic C12-C16	7.7	0	8.25	106		(40-140)
Aliphatic C16-C21	11.6	0	13.1	112		(40-140)
Aliphatic C21-C28	15.5	0	17.1	110		(40-140)
Aliphatic C28-C40	23.2	0	28.6	123		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : P4892-02MSD **Datafile:** FC067856.D

Client ID : WB-310-BOTMSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	11.6	0	8.67	75		3.29 |	(40-140)	25
Aliphatic C12-C16	7.7	0	7.99	103		2.87 |	(40-140)	25
Aliphatic C16-C21	11.6	0	13.0	112		0 |	(40-140)	25
Aliphatic C21-C28	15.5	0	17.0	109		0.91 |	(40-140)	25
Aliphatic C28-C40	23.2	0	28.8	124		0.81 |	(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : P4892-02MS **Datafile:** FD048806.D

Client ID : WB-310-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.7	0	6.44	83		(40-140)
Aromatic C12-C16	11.6	0	12.3	106		(40-140)
Aromatic C16-C21	19.3	0	25.0	129		(40-140)
Aromatic C21-C36	30.9	0	42.2	136		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : P4892-02MSD **Datafile:** FD048807.D

Client ID : WB-310-BOTMSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7.7	0	6.56	85		1.9 |	(40-140)	25
Aromatic C12-C16	11.6	0	12.5	107		0.94 |	(40-140)	25
Aromatic C16-C21	19.3	0	25.3	130		0.77 |	(40-140)	25
Aromatic C21-C36	30.9	0	42.6	137		0.73 |	(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165151BS **Datafile:** FC067841.D

Client ID : PB165151BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	164	55		(40-140)
Aliphatic C12-C16	200	143	72		(40-140)
Aliphatic C16-C21	300	241	80		(40-140)
Aliphatic C21-C28	400	325	81		(40-140)
Aliphatic C28-C40	600	554	92		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165151BSD **Datafile:** FC067842.D

Client ID : PB165151BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	167	56		1.8|	(40-140)	50
Aliphatic C12-C16	200	145	72		1.4|	(40-140)	50
Aliphatic C16-C21	300	240	80		0.374|	(40-140)	50
Aliphatic C21-C28	400	322	80		0.866|	(40-140)	50
Aliphatic C28-C40	600	552	92		0.326|	(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165188BS **Datafile:** FC067850.D

Client ID : PB165188BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.0	5.81	58		(40-140)
Aliphatic C12-C16	6.7	5.08	76		(40-140)
Aliphatic C16-C21	10.0	8.29	83		(40-140)
Aliphatic C21-C28	13.3	11.0	82		(40-140)
Aliphatic C28-C40	20.0	18.4	92		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165188BSD **Datafile:** FC067851.D

Client ID : PB165188BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.82	58		0.23|	(40-140)	50
Aliphatic C12-C16	6.7	5.05	76		0.526|	(40-140)	50
Aliphatic C16-C21	10	8.21	82		0.903|	(40-140)	50
Aliphatic C21-C28	13.3	10.9	82		0.847|	(40-140)	50
Aliphatic C28-C40	20.0	18.4	92		0.06|	(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165151BS **Datafile:** FD048792.D

Client ID : PB165151BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	179	90		(40-140)
Aromatic C12-C16	300	321	107		(40-140)
Aromatic C16-C21	500	593	118		(40-140)
Aromatic C21-C36	800	940	117		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165151BSD **Datafile:** FD048793.D

Client ID : PB165151BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	177	88		1.1|	(40-140)	50
Aromatic C12-C16	300	317	105		1.3|	(40-140)	50
Aromatic C16-C21	500	590	118		0|	(40-140)	50
Aromatic C21-C36	800	940	117		0.42|	(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165188BS **Datafile:** FD048801.D

Client ID : PB165188BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	6.13	92		(40-140)
Aromatic C12-C16	10.0	11.0	110		(40-140)
Aromatic C16-C21	16.7	20.2	121		(40-140)
Aromatic C21-C36	26.7	31.6	118		(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:** P4892 **SAS No :** P4892 **SDG No:** P4892

Sample No : PB165188BSD **Datafile:** FD048802.D

Client ID : PB165188BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.10	92		0.478| (40-140)	50
Aromatic C12-C16	10	10.9	109		0.847| (40-140)	50
Aromatic C16-C21	16.7	20.0	120		0.763| (40-140)	50
Aromatic C21-C36	26.6	31.4	117		0.145| (40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB165151BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Instrument ID: FID_C Lab Sample ID: PB165151BL

Matrix: (soil/water) Water Date Extracted: 11/20/2024 8:28:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB165151BS	PB165151BS
PB165151BSD	PB165151BSD
WB-310-SW	P4892-04

COMMENTS:

Form IV

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB165188BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Instrument ID: FID_C Lab Sample ID: PB165188BL

Matrix: (soil/water) Solid Date Extracted: 11/21/2024 8:35:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB165188BS	PB165188BS
PB165188BSD	PB165188BSD
WB-310-BOTMS	P4892-02MS
WB-310-BOTMSD	P4892-02MSD
WB-310-TOP	P4892-01
WB-310-BOT	P4892-02

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BL	SDG No.:	P4892
Lab Sample ID:	PB165151BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/20/24 08:28	11/21/24 11:16	PB165151

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	FC067840.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC067840.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC067840.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC067840.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC067840.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048791.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048791.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048791.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048791.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BL	SDG No.:	P4892
Lab Sample ID:	PB165151BL	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
FC067840.D	1	11/20/24	11/21/24	PB165151

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)		35.1		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165151BL	Acq On:	21 Nov 2024 11:16
Client Sample ID:	PB165151BL	Operator:	YP/AJ
Data file:	FC067840.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	3.186	6.463	0	0	300	ug/ml
Aliphatic C12-C16	6.464	9.851	0	0	200	ug/ml
Aliphatic C16-C21	9.852	13.208	0	0	300	ug/ml
Aliphatic C21-C28	13.209	16.863	0	0	400	ug/ml
Aliphatic C28-C40	16.864	21.710	0	0	600	ug/ml
Aliphatic EPH	3.186	21.710	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5095095	35.1		ug/ml
Aliphatic C9-C28	3.186	16.863	0	0	1200	ug/ml

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BL	SDG No.:	P4892
Lab Sample ID:	PB165151BL	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
FD048791.D	1	11/20/24	11/21/24	PB165151

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)	64.1		40 - 140	128%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.7		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	58.4		40 - 140	117%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165151BL	Acq On:	21 Nov 2024 11:16
Client Sample ID:	PB165151BL	Operator:	YP/AJ
Data file:	FD048791.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	4.088	5.805	0	0	200	ug/ml
Aromatic C12-C16	5.806	8.411	0	0	300	ug/ml
Aromatic C16-C21	8.412	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.084	0	0	800	ug/ml
Aromatic EPH	4.088	18.084	0	0		ug/ml
ortho-Terphenyl (SURR)	11.256	11.256	11233199	58.4		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	11279380	64.07		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	6755816	58.66		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BL	SDG No.:	P4892
Lab Sample ID:	PB165188BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/21/24 08:35	11/22/24 10:55	PB165188

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	FC067849.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067849.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067849.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067849.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067849.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048800.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048800.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048800.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD048800.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BL	SDG No.:	P4892
Lab Sample ID:	PB165188BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067849.D	1	11/21/24	11/22/24	PB165188

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)		35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165188BL	Acq On:	22 Nov 2024 10:55
Client Sample ID:	PB165188BL	Operator:	YP/AJ
Data file:	FC067849.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	3.186	6.463	0	0	300	ug/ml
Aliphatic C12-C16	6.464	9.851	0	0	200	ug/ml
Aliphatic C16-C21	9.852	13.208	0	0	300	ug/ml
Aliphatic C21-C28	13.209	16.863	0	0	400	ug/ml
Aliphatic C28-C40	16.864	21.709	0	0	600	ug/ml
Aliphatic EPH	3.186	21.709	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5125398	35.31		ug/ml
Aliphatic C9-C28	3.186	16.863	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BL	SDG No.:	P4892
Lab Sample ID:	PB165188BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048800.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.00	U	2.00	2.66	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		63.5		40 - 140	127%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		57.9		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		57.3		40 - 140	114%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165188BL	Acq On:	22 Nov 2024 10:55
Client Sample ID:	PB165188BL	Operator:	YP/AJ
Data file:	FD048800.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	4.088	5.804	0	0	200	ug/ml
Aromatic C12-C16	5.805	8.412	0	0	300	ug/ml
Aromatic C16-C21	8.413	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.087	0	0	800	ug/ml
Aromatic EPH	4.088	18.087	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	11176340	63.48		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	6668678	57.9		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	11010543	57.25		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BS	SDG No.:	P4892
Lab Sample ID:	PB165151BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/20/24 08:28	11/21/24 11:53	PB165151

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	164		1	5.76	30.0	ug/l	FC067841.D
Aliphatic C12-C16	Aliphatic C12-C16	143		1	3.61	20.0	ug/l	FC067841.D
Aliphatic C16-C21	Aliphatic C16-C21	241		1	5.14	30.0	ug/l	FC067841.D
Aliphatic C21-C28	Aliphatic C21-C28	325		1	8.97	40.0	ug/l	FC067841.D
Aliphatic C28-C40	Aliphatic C28-C40	554		1	17.0	60.0	ug/l	FC067841.D
Aromatic C10-C12	Aromatic C10-C12	179		1	3.32	20.0	ug/l	FD048792.D
Aromatic C12-C16	Aromatic C12-C16	321		1	3.69	30.0	ug/l	FD048792.D
Aromatic C16-C21	Aromatic C16-C21	593		1	12.7	50.0	ug/l	FD048792.D
Aromatic C21-C36	Aromatic C21-C36	940		1	25.2	80.0	ug/l	FD048792.D
Total AliphaticEPH	Total AliphaticEPH	1430			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2030			44.9	180	ug/l	
Total EPH	Total EPH	3460			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BS	SDG No.:	P4892
Lab Sample ID:	PB165151BS	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
FC067841.D	1	11/20/24	11/21/24	PB165151

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		164		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		143		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		241		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		325		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		554		17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.6		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:	PB165151BS	Acq On:	21 Nov 2024 11:53
Client Sample ID:	PB165151BS	Operator:	YP/AJ
Data file:	FC067841.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	3.186	6.463	13605740	82.065	300	ug/ml
Aliphatic C12-C16	6.464	9.851	12253693	71.918	200	ug/ml
Aliphatic C16-C21	9.852	13.208	20492969	120.816	300	ug/ml
Aliphatic C21-C28	13.209	16.863	25564138	162.539	400	ug/ml
Aliphatic C28-C40	16.864	21.710	33584861	277.306	600	ug/ml
Aliphatic EPH	3.186	21.710	105501401	714.644		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5017940	34.57		ug/ml
Aliphatic C9-C28	3.186	16.863	71916540	437.338	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BS	SDG No.:	P4892
Lab Sample ID:	PB165151BS	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
FD048792.D	1	11/20/24	11/21/24	PB165151

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	179		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	321		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	593		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	940		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.8		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.2		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.3		40 - 140	93%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165151BS	Acq On:	21 Nov 2024 11:53
Client Sample ID:	PB165151BS	Operator:	YP/AJ
Data file:	FD048792.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	4.088	5.805	17280734	89.996	200	ug/ml
Aromatic C12-C16	5.806	8.411	30912587	160.619	300	ug/ml
Aromatic C16-C21	8.412	12.676	55125540	296.685	500	ug/ml
Aromatic C21-C36	12.677	18.084	73969656	470.452	800	ug/ml
Aromatic EPH	4.088	18.084	177288517	1020		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	8905805	46.3		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9475305	53.82		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5662551	49.17		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BS	SDG No.:	P4892
Lab Sample ID:	PB165188BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/21/24 08:35	11/22/24 11:32	PB165188

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.81		1	0.38	1.00	mg/kg	FC067850.D
Aliphatic C12-C16	Aliphatic C12-C16	5.08		1	0.24	0.67	mg/kg	FC067850.D
Aliphatic C16-C21	Aliphatic C16-C21	8.29		1	0.30	1.00	mg/kg	FC067850.D
Aliphatic C21-C28	Aliphatic C21-C28	11.0		1	0.80	1.33	mg/kg	FC067850.D
Aliphatic C28-C40	Aliphatic C28-C40	18.4		1	1.80	2.00	mg/kg	FC067850.D
Aromatic C10-C12	Aromatic C10-C12	6.13		1	0.30	0.67	mg/kg	FD048801.D
Aromatic C12-C16	Aromatic C12-C16	11.0		1	0.34	1.00	mg/kg	FD048801.D
Aromatic C16-C21	Aromatic C16-C21	20.2		1	0.96	1.67	mg/kg	FD048801.D
Aromatic C21-C36	Aromatic C21-C36	31.6		1	2.00	2.67	mg/kg	FD048801.D
Total AliphaticEPH	Total AliphaticEPH	48.6			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	68.9			3.60	6.01	mg/kg	
Total EPH	Total EPH	118			7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BS	SDG No.:	P4892
Lab Sample ID:	PB165188BS	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
FC067850.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.81		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.08		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.29		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	11.0		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.4		1.80	2.00	mg/kg
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:	PB165188BS	Acq On:	22 Nov 2024 11:32
Client Sample ID:	PB165188BS	Operator:	YP/AJ
Data file:	FC067850.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	3.186	6.463	14449636	87.156	300	ug/ml
Aliphatic C12-C16	6.464	9.851	12995112	76.269	200	ug/ml
Aliphatic C16-C21	9.852	13.208	21106424	124.432	300	ug/ml
Aliphatic C21-C28	13.209	16.863	25843525	164.315	400	ug/ml
Aliphatic C28-C40	16.864	21.709	33411170	275.872	600	ug/ml
Aliphatic EPH	3.186	21.709	107805867	728.044		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	5112489	35.22		ug/ml
Aliphatic C9-C28	3.186	16.863	74394697	452.172	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BS	SDG No.:	P4892
Lab Sample ID:	PB165188BS	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
FD048801.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.13		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.0		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.2		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	31.6		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.0		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.5		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.1		40 - 140	94%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165188BS	Acq On:	22 Nov 2024 11:32
Client Sample ID:	PB165188BS	Operator:	YP/AJ
Data file:	FD048801.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	4.088	5.804	17664848	91.996	200	ug/ml
Aromatic C12-C16	5.805	8.412	31634420	164.37	300	ug/ml
Aromatic C16-C21	8.413	12.677	56222020	302.586	500	ug/ml
Aromatic C21-C36	12.678	18.087	74661694	474.853	800	ug/ml
Aromatic EPH	4.088	18.087	180182982	1030		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	9064758	47.13		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	9688397	55.03		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5811070	50.46		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BSD	SDG No.:	P4892
Lab Sample ID:	PB165151BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/20/24 08:28	11/21/24 12:31	PB165151

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	167		1	5.76	30.0	ug/l	FC067842.D
Aliphatic C12-C16	Aliphatic C12-C16	145		1	3.61	20.0	ug/l	FC067842.D
Aliphatic C16-C21	Aliphatic C16-C21	240		1	5.14	30.0	ug/l	FC067842.D
Aliphatic C21-C28	Aliphatic C21-C28	322		1	8.97	40.0	ug/l	FC067842.D
Aliphatic C28-C40	Aliphatic C28-C40	552		1	17.0	60.0	ug/l	FC067842.D
Aromatic C10-C12	Aromatic C10-C12	177		1	3.32	20.0	ug/l	FD048793.D
Aromatic C12-C16	Aromatic C12-C16	317		1	3.69	30.0	ug/l	FD048793.D
Aromatic C16-C21	Aromatic C16-C21	590		1	12.7	50.0	ug/l	FD048793.D
Aromatic C21-C36	Aromatic C21-C36	940		1	25.2	80.0	ug/l	FD048793.D
Total AliphaticEPH	Total AliphaticEPH	1430			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2020			44.9	180	ug/l	
Total EPH	Total EPH	3450			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165151BSD	SDG No.:	P4892
Lab Sample ID:	PB165151BSD	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
FC067842.D	1	11/20/24	11/21/24	PB165151

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	167		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	145		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	240		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	322		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	552		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.0		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165151BSD	Acq On:	21 Nov 2024 12:31
Client Sample ID:	PB165151BSD	Operator:	YP/AJ
Data file:	FC067842.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	3.186	6.463	13901203	83.848	300	ug/ml
Aliphatic C12-C16	6.464	9.851	12430199	72.954	200	ug/ml
Aliphatic C16-C21	9.852	13.208	20427343	120.429	300	ug/ml
Aliphatic C21-C28	13.209	16.863	25341854	161.126	400	ug/ml
Aliphatic C28-C40	16.864	21.710	33437492	276.089	600	ug/ml
Aliphatic EPH	3.186	21.710	105538091	714.445		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5218311	35.95		ug/ml
Aliphatic C9-C28	3.186	16.863	72100599	438.357	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2024		Date Received:		
Client Sample ID:	PB165151BSD		SDG No.:	P4892	
Lab Sample ID:	PB165151BSD		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
FD048793.D	1	11/20/24	11/21/24	PB165151

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	177		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	317		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	590		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	940		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.2		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.9		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.9		40 - 140	92%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165151BSD	Acq On:	21 Nov 2024 12:31
Client Sample ID:	PB165151BSD	Operator:	YP/AJ
Data file:	FD048793.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	4.088	5.805	17051877	88.804	200	ug/ml
Aromatic C12-C16	5.806	8.411	30575369	158.867	300	ug/ml
Aromatic C16-C21	8.412	12.676	54834754	295.12	500	ug/ml
Aromatic C21-C36	12.677	18.084	73945056	470.295	800	ug/ml
Aromatic EPH	4.088	18.084	176407056	1010		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	8834245	45.93		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9369413	53.22		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5631657	48.9		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BSD	SDG No.:	P4892
Lab Sample ID:	PB165188BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/21/24 08:35	11/22/24 12:08	PB165188

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.82		1	0.38	1.00	mg/kg	FC067851.D
Aliphatic C12-C16	Aliphatic C12-C16	5.05		1	0.24	0.67	mg/kg	FC067851.D
Aliphatic C16-C21	Aliphatic C16-C21	8.21		1	0.30	1.00	mg/kg	FC067851.D
Aliphatic C21-C28	Aliphatic C21-C28	10.9		1	0.80	1.33	mg/kg	FC067851.D
Aliphatic C28-C40	Aliphatic C28-C40	18.4		1	1.80	2.00	mg/kg	FC067851.D
Aromatic C10-C12	Aromatic C10-C12	6.10		1	0.30	0.67	mg/kg	FD048802.D
Aromatic C12-C16	Aromatic C12-C16	10.9		1	0.34	1.00	mg/kg	FD048802.D
Aromatic C16-C21	Aromatic C16-C21	20.0		1	0.96	1.67	mg/kg	FD048802.D
Aromatic C21-C36	Aromatic C21-C36	31.4		1	2.00	2.66	mg/kg	FD048802.D
Total AliphaticEPH	Total AliphaticEPH	48.4			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	68.4			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 2024	Date Received:	
Client Sample ID:	PB165188BSD	SDG No.:	P4892
Lab Sample ID:	PB165188BSD	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
FC067851.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.82		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.05		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.21		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.6		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:	PB165188BSD	Acq On:	22 Nov 2024 12:08
Client Sample ID:	PB165188BSD	Operator:	YP/AJ
Data file:	FC067851.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	3.186	6.463	14471883	87.29	300	ug/ml
Aliphatic C12-C16	6.464	9.851	12904941	75.74	200	ug/ml
Aliphatic C16-C21	9.852	13.208	20910441	123.277	300	ug/ml
Aliphatic C21-C28	13.209	16.863	25708219	163.455	400	ug/ml
Aliphatic C28-C40	16.864	21.709	33372275	275.55	600	ug/ml
Aliphatic EPH	3.186	21.709	107367759	725.312		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5313708	36.61		ug/ml
Aliphatic C9-C28	3.186	16.863	73995484	449.762	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165188BSD	SDG No.:	P4892
Lab Sample ID:	PB165188BSD	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
FD048802.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.10		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.9		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.0		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	31.4		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.8		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.3		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.9		40 - 140	94%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165188BSD	Acq On:	22 Nov 2024 12:08
Client Sample ID:	PB165188BSD	Operator:	YP/AJ
Data file:	FD048802.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	4.088	5.804	17591283	91.613	200	ug/ml
Aromatic C12-C16	5.805	8.412	31455224	163.439	300	ug/ml
Aromatic C16-C21	8.413	12.677	55908625	300.9	500	ug/ml
Aromatic C21-C36	12.678	18.087	74143343	471.557	800	ug/ml
Aromatic EPH	4.088	18.087	179098475	1030		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	9024478	46.92		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	9645156	54.78		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5788509	50.26		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/21/24 08:35	11/22/24 14:33	PB165188

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.97		1	0.44	1.16	mg/kg	FC067855.D
Aliphatic C12-C16	Aliphatic C12-C16	8.25		1	0.28	0.77	mg/kg	FC067855.D
Aliphatic C16-C21	Aliphatic C16-C21	13.1		1	0.35	1.16	mg/kg	FC067855.D
Aliphatic C21-C28	Aliphatic C21-C28	17.1		1	0.93	1.55	mg/kg	FC067855.D
Aliphatic C28-C40	Aliphatic C28-C40	28.6		1	2.09	2.32	mg/kg	FC067855.D
Aromatic C10-C12	Aromatic C10-C12	6.44		1	0.35	0.77	mg/kg	FD048806.D
Aromatic C12-C16	Aromatic C12-C16	12.3		1	0.39	1.16	mg/kg	FD048806.D
Aromatic C16-C21	Aromatic C16-C21	25.0		1	1.11	1.93	mg/kg	FD048806.D
Aromatic C21-C36	Aromatic C21-C36	42.2		1	2.32	3.09	mg/kg	FD048806.D
Total AliphaticEPH	Total AliphaticEPH	76.0			4.08	6.96	mg/kg	
Total AromaticEPH	Total AromaticEPH	85.9			4.17	6.95	mg/kg	
Total EPH	Total EPH	162			8.26	13.9	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FC067855.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.97		0.44	1.16	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	8.25		0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	13.1		0.35	1.16	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	17.1		0.93	1.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.6		2.09	2.32	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.6		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:	P4892-02MS	Acq On:	22 Nov 2024 14:33
Client Sample ID:	WB-310-BOTMS	Operator:	YP/AJ
Data file:	FC067855.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.186	6.463	19220887	115.934	300	ug/ml
Aliphatic C12-C16	6.464	9.851	18171701	106.651	200	ug/ml
Aliphatic C16-C21	9.852	13.208	28821426	169.916	300	ug/ml
Aliphatic C21-C28	13.209	16.863	34699780	220.624	400	ug/ml
Aliphatic C28-C40	16.864	21.709	44732596	369.351	600	ug/ml
Aliphatic EPH	3.186	21.709	145646390	982.477		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.942	12.942	5309462	36.58		ug/ml
Aliphatic C9-C28	3.186	16.863	100913794	613.125	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FD048806.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.44		0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	12.3		0.39	1.16	mg/kg
Aromatic C16-C21	Aromatic C16-C21	25.0		1.11	1.93	mg/kg
Aromatic C21-C36	Aromatic C21-C36	42.2		2.32	3.09	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.3		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.2		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.6		40 - 140	69%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4892-02MS	Acq On:	22 Nov 2024 14:33
Client Sample ID:	WB-310-BOTMS	Operator:	YP/AJ
Data file:	FD048806.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.804	15991450	83.281	200	ug/ml
Aromatic C12-C16	5.805	8.412	30568391	158.831	300	ug/ml
Aromatic C16-C21	8.413	12.677	59987722	322.853	500	ug/ml
Aromatic C21-C36	12.678	18.087	85719133	545.179	800	ug/ml
Aromatic EPH	4.088	18.087	192266696	1110		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9037965	51.33		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5777283	50.16		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	6648422	34.57		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
11/21/24 08:35	11/22/24 15:09	PB165188

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.67		1	0.44	1.16	mg/kg	FC067856.D
Aliphatic C12-C16	Aliphatic C12-C16	7.99		1	0.28	0.77	mg/kg	FC067856.D
Aliphatic C16-C21	Aliphatic C16-C21	13.0		1	0.35	1.16	mg/kg	FC067856.D
Aliphatic C21-C28	Aliphatic C21-C28	17.0		1	0.93	1.55	mg/kg	FC067856.D
Aliphatic C28-C40	Aliphatic C28-C40	28.8		1	2.09	2.32	mg/kg	FC067856.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.35	0.77	mg/kg	FD048807.D
Aromatic C12-C16	Aromatic C12-C16	12.5		1	0.39	1.16	mg/kg	FD048807.D
Aromatic C16-C21	Aromatic C16-C21	25.3		1	1.11	1.93	mg/kg	FD048807.D
Aromatic C21-C36	Aromatic C21-C36	42.6		1	2.32	3.09	mg/kg	FD048807.D
Total AliphaticEPH	Total AliphaticEPH	75.5			4.08	6.96	mg/kg	
Total AromaticEPH	Total AromaticEPH	87.0			4.17	6.95	mg/kg	
Total EPH	Total EPH	162			8.26	13.9	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FC067856.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.67		0.44	1.16	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.99		0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	13.0		0.35	1.16	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	17.0		0.93	1.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.8		2.09	2.32	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.3		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:	P4892-02MSD	Acq On:	22 Nov 2024 15:09
Client Sample ID:	WB-310-BOTMSD	Operator:	YP/AJ
Data file:	FC067856.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.186	6.463	18609491	112.246	300	ug/ml
Aliphatic C12-C16	6.464	9.851	17617271	103.397	200	ug/ml
Aliphatic C16-C21	9.852	13.208	28482666	167.919	300	ug/ml
Aliphatic C21-C28	13.209	16.863	34609133	220.048	400	ug/ml
Aliphatic C28-C40	16.864	21.709	45078028	372.203	600	ug/ml
Aliphatic EPH	3.186	21.709	144396589	975.814		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	5268352	36.29		ug/ml
Aliphatic C9-C28	3.186	16.863	99318561	603.61	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.1
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
FD048807.D	1	11/21/24	11/22/24	PB165188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.56		0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	12.5		0.39	1.16	mg/kg
Aromatic C16-C21	Aromatic C16-C21	25.3		1.11	1.93	mg/kg
Aromatic C21-C36	Aromatic C21-C36	42.6		2.32	3.09	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.2		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.1		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.1		40 - 140	70%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4892-02MSD	Acq On:	22 Nov 2024 15:09
Client Sample ID:	WB-310-BOTMSD	Operator:	YP/AJ
Data file:	FD048807.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.804	16307997	84.93	200	ug/ml
Aromatic C12-C16	5.805	8.412	31144005	161.822	300	ug/ml
Aromatic C16-C21	8.413	12.677	60816110	327.312	500	ug/ml
Aromatic C21-C36	12.678	18.087	86707849	551.468	800	ug/ml
Aromatic EPH	4.088	18.087	194975961	1130		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9192847	52.21		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5776105	50.15		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	6752416	35.11		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC111424AL

AreaCount

Parameter Range	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.D	
Aliphatic C9-C12	46442029.000	24666595.000	9992394.000	5182647.000	2556169.000	
Aliphatic C12-C16	31783530.000	16951541.000	6841286.000	3561240.000	1743949.000	
Aliphatic C16-C21	45893154.000	24733385.000	10219387.000	5444223.000	2676662.000	
Aliphatic C21-C28	55776518.000	29828483.000	12486021.000	6692087.000	3488783.000	
Aliphatic C28-C40	63293952.000	33876340.000	14624061.000	7555903.000	4180402.000	
Aliphatic EPH	243189183.000	130056344.000	54163149.000	28436100.000	14645965.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	165791.359333	4.188				
Aliphatic C12-C16	170384.422	4.229				
Aliphatic C16-C21	169621.5526664	6.711				
Aliphatic C21-C28	157280.0595	8.883				
Aliphatic C28-C40	121111.3356664	10.666				
Aliphatic EPH	150155.3239994	7.279				

Concentration

Parameter Range	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.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	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.D	
Aliphatic C9-C12	154806.763333	164443.966666	166539.900000	172754.900000	170411.266666	
Aliphatic C12-C16	158917.650000	169515.410000	171032.150000	178062.000000	174394.900000	
Aliphatic C16-C21	152977.180000	164889.233333	170323.116666	181474.100000	178444.133333	

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Inital Calibration Report for SequenceID : FC111424AL

Aliphatic C21-C28	139441.295000	149142.415000	156075.262500	167302.175000	174439.150000	
Aliphatic C28-C40	105489.920000	112921.133333	121867.175000	125931.716666	139346.733333	
Aliphatic EPH	135105.101666	144507.048888	150453.191666	157978.333333	162732.944444	

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Inital Calibration Report for SequenceID : FD111424AR

AreaCount

Parameter Range	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.D	
Aromatic C10-C12	35969884.000	18267930.000	7601024.000	4048482.000	2051093.000	
Aromatic C12-C16	53799266.000	27329767.000	11363305.000	6130468.000	3105423.000	
Aromatic C16-C21	68956735.000	35122486.000	14626807.000	7814027.000	4056681.000	
Aromatic C21-C36	129641639.000	66976017.000	28128596.000	14930708.000	7699801.000	
Aromatic EPH	288367524.000	147696200.000	61719732.000	32923685.000	16912998.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	192017.544	5.932				
Aromatic C12-C16	192458.9766662	6.576				
Aromatic C16-C21	185804.816	6.985				
Aromatic C21-C36	157231.0562216	7.202				
Aromatic EPH	173317.2659998	6.861				

Concentration

Parameter Range	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.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	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.D	
Aromatic C10-C12	179849.420000	182679.300000	190025.600000	202424.100000	205109.300000	
Aromatic C12-C16	179330.886666	182198.446666	189388.416666	204348.933333	207028.200000	
Aromatic C16-C21	172391.837500	175612.430000	182835.087500	195350.675000	202834.050000	
Aromatic C21-C36	144046.265555	148835.593333	156269.977777	165896.755555	171106.688888	
Aromatic EPH	160204.180000	164106.888888	171443.700000	182909.361111	187922.200000	

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Continuing Calibration Report for SequenceID : FC112124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067839.D**						
Aliphatic C9-C12	9594932.000	60.000	3.186	6.463	159915.533	165791.359	3.544
Aliphatic C12-C16	6660895.000	40.000	6.464	9.851	166522.375	170384.422	2.267
Aliphatic C16-C21	9836167.000	60.000	9.852	13.208	163936.117	169621.553	3.352
Aliphatic C21-C28	12842540.000	80.000	13.209	16.863	160531.750	157280.060	-2.067
Aliphatic C28-C40	15281804.000	120.000	16.864	21.710	127348.367	121111.336	-5.150
Aliphatic EPH	54216338.000	360.000	3.186	21.710	150600.939	150155.324	-0.297

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	21 Nov 2024 10:39
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067839.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.186	6.463	9594932.000	60.000	ug/ml
Aliphatic C12-C16	6.464	9.851	6660895.000	40.000	ug/ml
Aliphatic C16-C21	9.852	13.208	9836167.000	60.000	ug/ml
Aliphatic C21-C28	13.209	16.863	12842540.000	80.000	ug/ml
Aliphatic C28-C40	16.864	21.710	15281804.000	120.000	ug/ml
Aliphatic EPH	3.186	21.710	54216338.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC112124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067845.D**						
Aliphatic C9-C12	9334629.000	60.000	3.186	6.463	155577.150	165791.359	6.161
Aliphatic C12-C16	6473028.000	40.000	6.464	9.851	161825.700	170384.422	5.023
Aliphatic C16-C21	9664465.000	60.000	9.852	13.208	161074.417	169621.553	5.039
Aliphatic C21-C28	12821556.000	80.000	13.209	16.863	160269.450	157280.060	-1.901
Aliphatic C28-C40	14816190.000	120.000	16.864	21.710	123468.250	121111.336	-1.946
Aliphatic EPH	53109868.000	360.000	3.186	21.710	147527.411	150155.324	1.750

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	21 Nov 2024 14:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067845.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.186	6.463	9334629.000	60.000	ug/ml
Aliphatic C12-C16	6.464	9.851	6473028.000	40.000	ug/ml
Aliphatic C16-C21	9.852	13.208	9664465.000	60.000	ug/ml
Aliphatic C21-C28	13.209	16.863	12821556.000	80.000	ug/ml
Aliphatic C28-C40	16.864	21.710	14816190.000	120.000	ug/ml
Aliphatic EPH	3.186	21.710	53109868.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC112224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067848.D**						
Aliphatic C9-C12	8980746.000	60.000	3.186	6.463	149679.100	165791.359	9.718
Aliphatic C12-C16	6170368.000	40.000	6.464	9.851	154259.200	170384.422	9.464
Aliphatic C16-C21	9033880.000	60.000	9.852	13.208	150564.667	169621.553	11.235
Aliphatic C21-C28	11143774.000	80.000	13.209	16.863	139297.175	157280.060	11.434
Aliphatic C28-C40	14283251.000	120.000	16.864	21.709	119027.092	121111.336	1.721
Aliphatic EPH	49612019.000	360.000	3.186	21.709	137811.164	150155.324	8.221

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	22 Nov 2024 10:19
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067848.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.186	6.463	8980746.000	60.000	ug/ml
Aliphatic C12-C16	6.464	9.851	6170368.000	40.000	ug/ml
Aliphatic C16-C21	9.852	13.208	9033880.000	60.000	ug/ml
Aliphatic C21-C28	13.209	16.863	11143774.000	80.000	ug/ml
Aliphatic C28-C40	16.864	21.709	14283251.000	120.000	ug/ml
Aliphatic EPH	3.186	21.709	49612019.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC112224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067858.D**						
Aliphatic C9-C12	9413749.000	60.000	3.186	6.463	156895.817	165791.359	5.366
Aliphatic C12-C16	6490872.000	40.000	6.464	9.851	162271.800	170384.422	4.761
Aliphatic C16-C21	9422898.000	60.000	9.852	13.208	157048.300	169621.553	7.413
Aliphatic C21-C28	11509924.000	80.000	13.209	16.863	143874.050	157280.060	8.524
Aliphatic C28-C40	14695989.000	120.000	16.864	21.709	122466.575	121111.336	-1.119
Aliphatic EPH	51533432.000	360.000	3.186	21.709	143148.422	150155.324	4.666

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	22 Nov 2024 16:57
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067858.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.186	6.463	9413749.000	60.000	ug/ml
Aliphatic C12-C16	6.464	9.851	6490872.000	40.000	ug/ml
Aliphatic C16-C21	9.852	13.208	9422898.000	60.000	ug/ml
Aliphatic C21-C28	13.209	16.863	11509924.000	80.000	ug/ml
Aliphatic C28-C40	16.864	21.709	14695989.000	120.000	ug/ml
Aliphatic EPH	3.186	21.709	51533432.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD112124AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048790.D**						
Aromatic C10-C12	8107483.000	40.000	4.088	5.805	202687.075	192017.544	-5.557
Aromatic C12-C16	12127218.000	60.000	5.806	8.411	202120.300	192458.977	-5.020
Aromatic C16-C21	15266390.000	80.000	8.412	12.676	190829.875	185804.816	-2.704
Aromatic C21-C36	29247862.000	180.000	12.677	18.084	162488.122	157231.056	-3.344
Aromatic EPH	64748953.000	360.000	4.088	18.084	179858.203	173317.266	-3.774

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	21 Nov 2024 10:39
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048790.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	8107483.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12127218.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.676	15266390.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.084	29247862.000	180.000	ug/ml
Aromatic EPH	4.088	18.084	64748953.000	360.000	ug/ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Continuing Calibration Report for SequenceID : FD112124AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048796.D**						
Aromatic C10-C12	7963599.000	40.000	4.088	5.805	199089.975	192017.544	-3.683
Aromatic C12-C16	11946040.000	60.000	5.806	8.411	199100.667	192458.977	-3.451
Aromatic C16-C21	15031877.000	80.000	8.412	12.676	187898.463	185804.816	-1.127
Aromatic C21-C36	29031182.000	180.000	12.677	18.084	161284.344	157231.056	-2.578
Aromatic EPH	63972698.000	360.000	4.088	18.084	177701.939	173317.266	-2.530

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	21 Nov 2024 14:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048796.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	7963599.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	11946040.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.676	15031877.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.084	29031182.000	180.000	ug/ml
Aromatic EPH	4.088	18.084	63972698.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FD112224AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048799.D**						
Aromatic C10-C12	8918312.000	40.000	4.088	5.804	222957.800	192017.544	-16.113
Aromatic C12-C16	13472337.000	60.000	5.805	8.412	224538.950	192458.977	-16.668
Aromatic C16-C21	16224475.000	80.000	8.413	12.677	202805.938	185804.816	-9.150
Aromatic C21-C36	31702232.000	180.000	12.678	18.087	176123.511	157231.056	-12.016
Aromatic EPH	70317356.000	360.000	4.088	18.087	195325.989	173317.266	-12.699

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	22 Nov 2024 10:19
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048799.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.804	8918312.000	40.000	ug/ml
Aromatic C12-C16	5.805	8.412	13472337.000	60.000	ug/ml
Aromatic C16-C21	8.413	12.677	16224475.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.087	31702232.000	180.000	ug/ml
Aromatic EPH	4.088	18.087	70317356.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FD112224AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048809.D**						
Aromatic C10-C12	7879801.000	40.000	4.088	5.804	196995.025	192017.544	-2.592
Aromatic C12-C16	11762602.000	60.000	5.805	8.412	196043.367	192458.977	-1.862
Aromatic C16-C21	14657115.000	80.000	8.413	12.677	183213.938	185804.816	1.394
Aromatic C21-C36	28600750.000	180.000	12.678	18.087	158893.056	157231.056	-1.057
Aromatic EPH	62900268.000	360.000	4.088	18.087	174722.967	173317.266	-0.811

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	22 Nov 2024 16:21
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048809.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.804	7879801.000	40.000	ug/ml
Aromatic C12-C16	5.805	8.412	11762602.000	60.000	ug/ml
Aromatic C16-C21	8.413	12.677	14657115.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.087	28600750.000	180.000	ug/ml
Aromatic EPH	4.088	18.087	62900268.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067852.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:44
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 22 22:22:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.943	4795266	33.034 ug/mlm
Spiked Amount 50.000		Recovery = 66.07%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

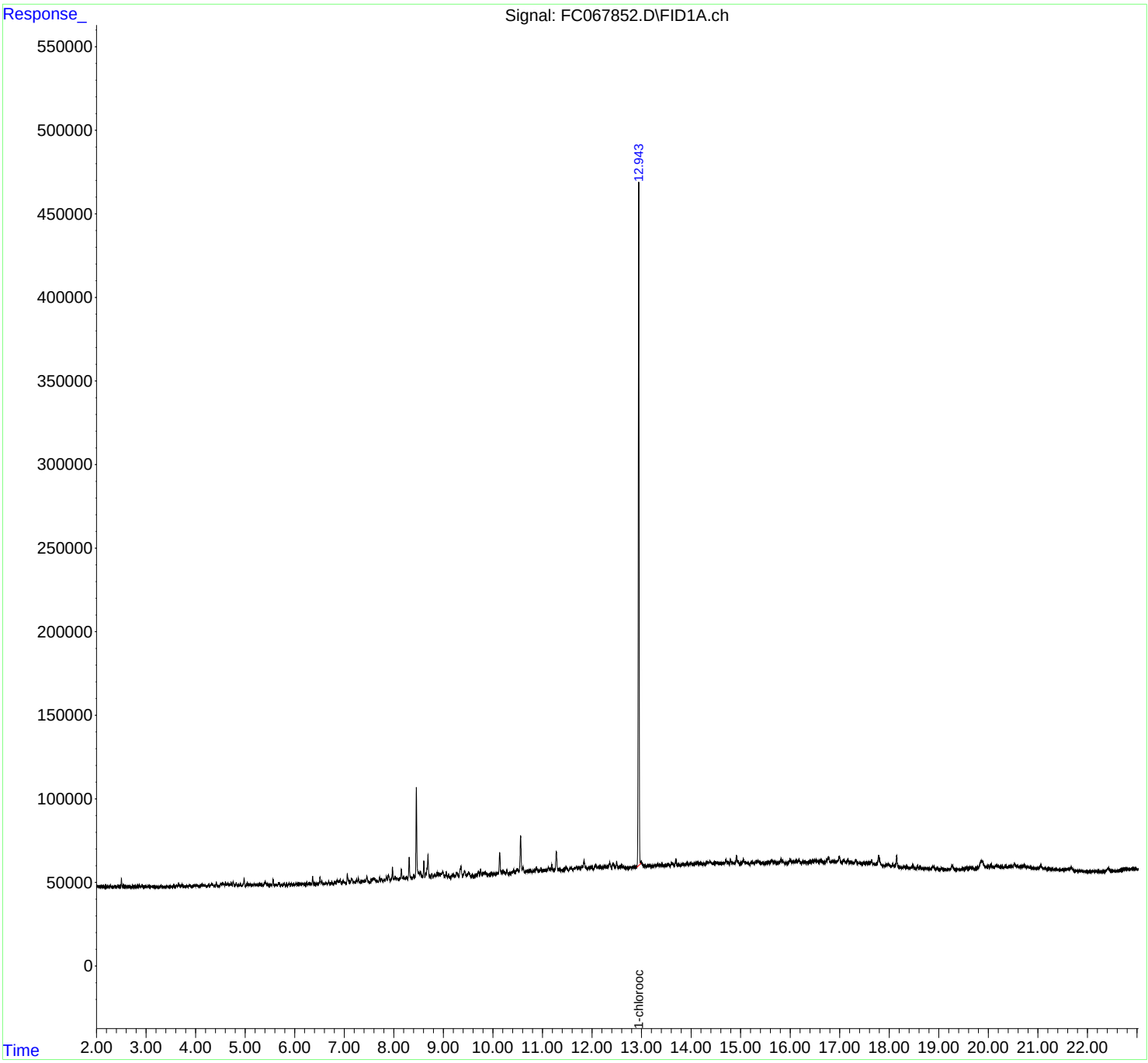
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067852.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:44
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

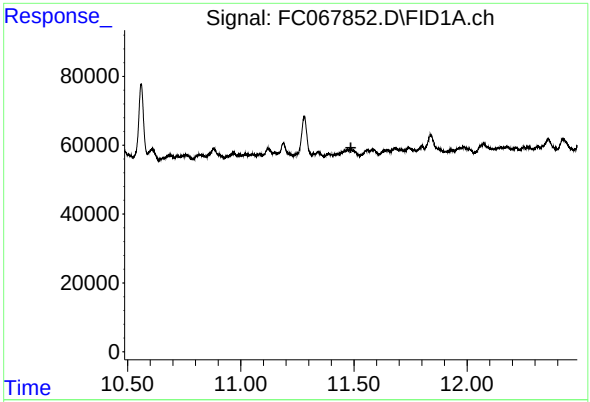
Integration File: sample.E
Quant Time: Nov 22 22:22:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024





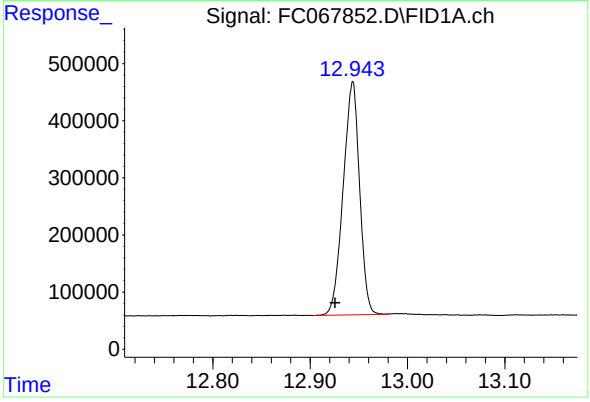
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-310-TOP

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#12 1-chlorooctadecane (SURR)

R.T.: 12.943 min
Delta R.T.: 0.018 min
Response: 4795266
Conc: 33.03 ug/ml m

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Instrument :
FID_C
ClientSampleId :
WB-310-TOP

rteres

Area Percent Report

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Supervised By :Ankita Jodhani 11/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11222
Data File : FC067852.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:44
Sample : P4892-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.284	3.224	3.294	BV	458	3820	0.07%	0.003%
2	3.305	3.294	3.322	VV	541	4463	0.08%	0.004%
3	3.330	3.322	3.367	PV	39	-1933	-0.04%	-0.002%
4	3.381	3.367	3.394	PV	-63	-1702	-0.03%	-0.002%
5	3.411	3.394	3.451	PV	228	3887	0.07%	0.004%
6	3.483	3.451	3.533	PV	326	7156	0.13%	0.006%
7	3.557	3.533	3.582	PV	790	11318	0.21%	0.010%
8	3.613	3.582	3.638	PV	847	12173	0.23%	0.011%
9	3.657	3.638	3.699	VV	2240	32423	0.60%	0.029%
10	3.728	3.699	3.763	VV	1749	26184	0.49%	0.024%
11	3.778	3.763	3.807	VV	680	8795	0.16%	0.008%
12	3.824	3.807	3.841	VV	879	7283	0.14%	0.007%
13	3.870	3.841	3.916	PV	1321	27220	0.51%	0.025%
14	3.951	3.916	3.964	PV	929	11876	0.22%	0.011%
15	3.979	3.964	3.997	VV	1439	16054	0.30%	0.015%
16	4.012	3.997	4.030	VV	1349	16740	0.31%	0.015%
17	4.044	4.030	4.064	VV	1096	13576	0.25%	0.012%
18	4.127	4.064	4.141	VV	1980	35246	0.66%	0.032%
19	4.155	4.141	4.178	VV	1616	23812	0.44%	0.022%
20	4.192	4.178	4.234	VV	1133	17959	0.33%	0.016%
21	4.263	4.234	4.282	VV	1721	23787	0.44%	0.022%
22	4.321	4.282	4.338	VV	2074	39305	0.73%	0.036%
23	4.348	4.338	4.375	VV	1381	22296	0.42%	0.020%
24	4.385	4.375	4.398	VV	694	7973	0.15%	0.007%
25	4.418	4.398	4.447	VV	2998	37777	0.70%	0.034%
26	4.460	4.447	4.481	VV	543	9549	0.18%	0.009%
27	4.513	4.481	4.530	VV	2201	43401	0.81%	0.039%
28	4.547	4.530	4.561	VV	2789	35728	0.67%	0.032%
29	4.571	4.561	4.587	VV	2043	24563	0.46%	0.022%
30	4.602	4.587	4.617	VV	3350	35030	0.65%	0.032%
31	4.630	4.617	4.642	VV	2076	23279	0.43%	0.021%
32	4.653	4.642	4.666	VV	1939	22199	0.41%	0.020%
33	4.676	4.666	4.692	VV	2112	22967	0.43%	0.021%
34	4.719	4.692	4.737	VV	2538	42928	0.80%	0.039%
35	4.757	4.737	4.781	VV	3133	51282	0.96%	0.046%
36	4.792	4.781	4.801	VV	1140	12313	0.23%	0.011%

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Instrument :
FID_C
ClientSampleId :
WB-310-TOP

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A B C D E F G H I J

rteres

37	4.819	4.801	4.845	VV	2673	38848	0.72%	0.035%
38	4.866	4.845	4.882	VV	1331	20791	0	
39	4.905	4.882	4.928	VV	1611	29933	0	
40	4.979	4.928	5.014	VV	5261	92162	1	
41	5.037	5.014	5.051	VV	2332	29883	0	
42	5.062	5.051	5.075	VV	1912	21753	0	
43	5.085	5.075	5.126	VV	1514	37335	0.70%	0.034%
44	5.151	5.126	5.165	VV	1317	24332	0.45%	0.022%
45	5.184	5.165	5.229	VV	1981	52675	0.98%	0.048%
46	5.240	5.229	5.255	VV	1524	19292	0.36%	0.017%
47	5.273	5.255	5.287	VV	2340	29734	0.55%	0.027%
48	5.302	5.287	5.370	VV	1931	64675	1.21%	0.059%
49	5.404	5.370	5.436	VV	3609	82432	1.54%	0.075%
50	5.452	5.436	5.491	VV	1641	42537	0.79%	0.038%
51	5.505	5.491	5.518	VV	1486	19408	0.36%	0.018%
52	5.531	5.518	5.540	VV	1251	16168	0.30%	0.015%
53	5.563	5.540	5.587	VV	4590	66681	1.24%	0.060%
54	5.617	5.587	5.650	VV	1411	45651	0.85%	0.041%
55	5.678	5.650	5.714	VV	2575	63554	1.18%	0.057%
56	5.729	5.714	5.760	VV	1657	33756	0.63%	0.031%
57	5.791	5.760	5.814	VV	2001	43298	0.81%	0.039%
58	5.836	5.814	5.857	VV	2166	33326	0.62%	0.030%
59	5.887	5.857	5.905	VV	2139	45283	0.84%	0.041%
60	5.934	5.905	5.956	VV	1773	43137	0.80%	0.039%
61	5.977	5.956	5.993	VV	1934	33425	0.62%	0.030%
62	6.026	5.993	6.047	VV	2297	52859	0.98%	0.048%
63	6.066	6.047	6.091	VV	1813	41252	0.77%	0.037%
64	6.110	6.091	6.131	VV	2141	43022	0.80%	0.039%
65	6.169	6.131	6.185	VV	2287	58777	1.10%	0.053%
66	6.199	6.185	6.221	VV	1810	32950	0.61%	0.030%
67	6.242	6.221	6.262	VV	2688	45232	0.84%	0.041%
68	6.290	6.262	6.305	VV	2189	47605	0.89%	0.043%
69	6.318	6.305	6.340	VV	2100	38056	0.71%	0.034%
70	6.362	6.340	6.431	VV	6383	136171	2.54%	0.123%
71	6.450	6.431	6.465	VV	2361	38012	0.71%	0.034%
72	6.511	6.465	6.533	VV	6002	123504	2.30%	0.112%
73	6.549	6.533	6.570	VV	3649	59444	1.11%	0.054%
74	6.583	6.570	6.607	VV	2441	42284	0.79%	0.038%
75	6.631	6.607	6.658	VV	2419	61226	1.14%	0.055%
76	6.685	6.658	6.711	VV	3261	76083	1.42%	0.069%
77	6.722	6.711	6.730	VV	1977	21125	0.39%	0.019%
78	6.748	6.730	6.777	VV	2559	60149	1.12%	0.054%
79	6.818	6.777	6.837	VV	3023	85985	1.60%	0.078%
80	6.857	6.837	6.871	VV	4175	65502	1.22%	0.059%
81	6.883	6.871	6.897	VV	3686	49854	0.93%	0.045%
82	6.918	6.897	6.945	VV	4266	89865	1.67%	0.081%
83	6.979	6.945	7.001	VV	3618	95891	1.79%	0.087%
84	7.016	7.001	7.038	VV	2902	56330	1.05%	0.051%
85	7.063	7.038	7.101	VV	7929	161927	3.02%	0.146%
86	7.117	7.101	7.128	VV	3469	47820	0.89%	0.043%
87	7.146	7.128	7.180	VV	5307	124776	2.32%	0.113%
88	7.200	7.180	7.219	VV	3028	67265	1.25%	0.061%
89	7.248	7.219	7.264	VV	4347	93531	1.74%	0.085%

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Instrument :
FID_C
ClientSampleId :
WB-310-TOP

Manual IntegrationsAPPROVED

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rteres

90	7.284	7.264	7.314	VV	5459	113524	2.12%	0.103%
91	7.335	7.314	7.358	VV	3458	82991		
92	7.374	7.358	7.392	VV	3959	68167		
93	7.413	7.392	7.429	VV	3777	77721		
94	7.457	7.429	7.484	VV	6209	146634		
95	7.498	7.484	7.522	VV	3170	65477		
96	7.544	7.522	7.556	VV	4633	74368	1.39%	0.067%
97	7.572	7.556	7.582	VV	5178	70037	1.31%	0.063%
98	7.595	7.582	7.608	VV	5562	76587	1.43%	0.069%
99	7.619	7.608	7.639	VV	5081	80136	1.49%	0.072%
100	7.661	7.639	7.688	VV	3695	100496	1.87%	0.091%
101	7.712	7.688	7.728	VV	5771	109104	2.03%	0.099%
102	7.740	7.728	7.778	VV	4664	126431	2.36%	0.114%
103	7.804	7.778	7.822	VV	4675	104995	1.96%	0.095%
104	7.850	7.822	7.868	VV	6076	135253	2.52%	0.122%
105	7.890	7.868	7.929	VV	7006	195380	3.64%	0.177%
106	7.974	7.929	8.004	VV	11770	274055	5.11%	0.248%
107	8.027	8.004	8.048	VV	6214	137412	2.56%	0.124%
108	8.063	8.048	8.086	VV	5415	113994	2.12%	0.103%
109	8.153	8.086	8.179	VV	10548	331540	6.18%	0.300%
110	8.200	8.179	8.222	VV	6365	142867	2.66%	0.129%
111	8.249	8.222	8.262	VV	5696	125264	2.33%	0.113%
112	8.270	8.262	8.283	VV	5409	64836	1.21%	0.059%
113	8.310	8.283	8.378	VV	17810	448433	8.36%	0.406%
114	8.401	8.378	8.424	VV	6864	168608	3.14%	0.153%
115	8.455	8.424	8.495	VV	59462	873640	16.28%	0.790%
116	8.506	8.495	8.520	VV	8846	124686	2.32%	0.113%
117	8.539	8.520	8.564	VV	9268	208646	3.89%	0.189%
118	8.573	8.564	8.584	VV	6606	74744	1.39%	0.068%
119	8.607	8.584	8.629	VV	15559	263225	4.90%	0.238%
120	8.645	8.629	8.653	VV	8435	112528	2.10%	0.102%
121	8.690	8.653	8.718	VV	19246	440261	8.20%	0.398%
122	8.733	8.718	8.748	VV	6659	113404	2.11%	0.103%
123	8.767	8.748	8.789	VV	7988	168739	3.14%	0.153%
124	8.834	8.789	8.852	VV	7578	249733	4.65%	0.226%
125	8.872	8.852	8.885	VV	8668	152404	2.84%	0.138%
126	8.911	8.885	8.931	VV	8113	207116	3.86%	0.187%
127	8.952	8.931	8.961	VV	7683	138765	2.59%	0.126%
128	8.988	8.961	9.031	VV	9375	323362	6.03%	0.293%
129	9.058	9.031	9.083	VV	8944	224993	4.19%	0.204%
130	9.104	9.083	9.144	VV	6967	226998	4.23%	0.205%
131	9.178	9.144	9.196	VV	7325	199257	3.71%	0.180%
132	9.209	9.196	9.240	VV	7166	174948	3.26%	0.158%
133	9.276	9.240	9.311	VV	8804	318910	5.94%	0.288%
134	9.356	9.311	9.391	VV	12389	429669	8.01%	0.389%
135	9.428	9.391	9.461	VV	9877	334620	6.24%	0.303%
136	9.475	9.461	9.491	VV	7446	131471	2.45%	0.119%
137	9.509	9.491	9.571	VV	9101	355914	6.63%	0.322%
138	9.589	9.571	9.612	VV	6874	162804	3.03%	0.147%
139	9.630	9.612	9.644	VV	6506	121343	2.26%	0.110%
140	9.667	9.644	9.682	VV	7645	157112	2.93%	0.142%
141	9.708	9.682	9.733	VV	9443	255681	4.76%	0.231%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

142	9.752	9.733	9.774	VV	10808	214379	3.99%	0.194%
143	9.785	9.774	9.794	VV	7701	90236		
144	9.812	9.794	9.820	VV	8236	122855		
145	9.833	9.820	9.839	VV	8538	97261		
146	9.853	9.839	9.892	VV	8587	250284		
147	9.923	9.892	9.944	VV	7901	230671		
148	9.979	9.944	10.003	VV	8231	274569	5.12%	0.248%
149	10.026	10.003	10.046	VV	8174	198964	3.71%	0.180%
150	10.070	10.046	10.084	VV	7887	175214	3.26%	0.159%
151	10.099	10.084	10.110	VV	8239	122551	2.28%	0.111%
152	10.138	10.110	10.166	VV	20525	446102	8.31%	0.404%
153	10.216	10.166	10.251	VV	9211	449467	8.38%	0.407%
154	10.284	10.251	10.308	VV	10185	297508	5.54%	0.269%
155	10.331	10.308	10.359	VV	8460	244946	4.56%	0.222%
156	10.386	10.359	10.399	VV	9160	209823	3.91%	0.190%
157	10.420	10.399	10.448	VV	10321	273556	5.10%	0.247%
158	10.489	10.448	10.524	VV	10968	445826	8.31%	0.403%
159	10.560	10.524	10.589	VV	30543	664815	12.39%	0.601%
160	10.608	10.589	10.639	VV	11744	313772	5.85%	0.284%
161	10.690	10.639	10.711	VV	9981	400376	7.46%	0.362%
162	10.721	10.711	10.733	VV	9592	126279	2.35%	0.114%
163	10.758	10.733	10.790	VV	9965	320167	5.97%	0.290%
164	10.815	10.790	10.844	VV	9998	312985	5.83%	0.283%
165	10.880	10.844	10.928	VV	11817	512331	9.55%	0.463%
166	10.968	10.928	11.004	VV	10567	453340	8.45%	0.410%
167	11.019	11.004	11.034	VV	10248	177348	3.30%	0.160%
168	11.051	11.034	11.069	VV	10119	212045	3.95%	0.192%
169	11.086	11.069	11.095	VV	10172	154719	2.88%	0.140%
170	11.121	11.095	11.164	VV	11710	442445	8.24%	0.400%
171	11.188	11.164	11.231	VV	13385	444830	8.29%	0.402%
172	11.280	11.231	11.325	VV	21077	733569	13.67%	0.664%
173	11.343	11.325	11.366	VV	10842	250655	4.67%	0.227%
174	11.389	11.366	11.406	VV	10372	243676	4.54%	0.220%
175	11.486	11.406	11.528	VV	11595	775271	14.45%	0.701%
176	11.560	11.528	11.614	VV	11525	558684	10.41%	0.505%
177	11.646	11.614	11.664	VV	11353	328896	6.13%	0.298%
178	11.681	11.664	11.719	VV	11882	374543	6.98%	0.339%
179	11.741	11.719	11.776	VV	11926	395110	7.36%	0.357%
180	11.800	11.776	11.811	VV	12452	250095	4.66%	0.226%
181	11.839	11.811	11.910	VV	15866	741293	13.81%	0.671%
182	11.985	11.910	12.034	VV	12244	856362	15.96%	0.775%
183	12.074	12.034	12.117	VV	13100	598023	11.14%	0.541%
184	12.176	12.117	12.194	VV	12350	551247	10.27%	0.499%
185	12.216	12.194	12.231	VV	12125	261806	4.88%	0.237%
186	12.250	12.231	12.290	VV	12271	416801	7.77%	0.377%
187	12.312	12.290	12.324	VV	12309	247808	4.62%	0.224%
188	12.358	12.324	12.397	VV	14712	563300	10.50%	0.510%
189	12.424	12.397	12.472	VV	14453	574657	10.71%	0.520%
190	12.498	12.472	12.551	VV	15397	593302	11.06%	0.537%
191	12.564	12.551	12.580	VV	12280	211171	3.93%	0.191%
192	12.598	12.580	12.627	VV	12821	350002	6.52%	0.317%
193	12.643	12.627	12.716	VV	12282	614342	11.45%	0.556%
194	12.774	12.716	12.798	VV	11839	561499	10.46%	0.508%

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rteres

195	12.820	12.798	12.839	VV	11891	285640	5.32%	0.258%
196	12.884	12.839	12.904	VV	12320	471589	8	
197	12.943	12.904	12.979	VV	424202	5366720	100	
198	12.992	12.979	13.063	VV	15003	691013	12	
199	13.076	13.063	13.098	VV	12940	258630	4	
200	13.112	13.098	13.131	VV	13057	252097	4	
201	13.159	13.131	13.196	VV	12947	493085	9.19%	0.446%
202	13.222	13.196	13.251	VV	12586	410626	7.65%	0.371%
203	13.271	13.251	13.288	VV	13300	285274	5.32%	0.258%
204	13.329	13.288	13.356	VV	13815	529605	9.87%	0.479%
205	13.369	13.356	13.392	VV	13313	282177	5.26%	0.255%
206	13.415	13.392	13.451	VV	13466	457870	8.53%	0.414%
207	13.469	13.451	13.484	VV	12904	255110	4.75%	0.231%
208	13.537	13.484	13.574	VV	14010	712751	13.28%	0.645%
209	13.607	13.574	13.622	VV	13974	386496	7.20%	0.350%
210	13.636	13.622	13.663	VV	14089	331125	6.17%	0.300%
211	13.691	13.663	13.721	VV	16801	493513	9.20%	0.446%
212	13.741	13.721	13.804	VV	13571	657000	12.24%	0.594%
213	13.833	13.804	13.878	VV	13774	588064	10.96%	0.532%
214	13.931	13.878	13.948	VV	14754	583284	10.87%	0.528%
215	13.992	13.948	14.041	VV	14485	769097	14.33%	0.696%
216	14.094	14.041	14.114	VV	14271	615031	11.46%	0.556%
217	14.129	14.114	14.174	VV	14964	511850	9.54%	0.463%
218	14.196	14.174	14.230	VV	14724	467214	8.71%	0.423%
219	14.253	14.230	14.289	VV	14134	489189	9.12%	0.443%
220	14.325	14.289	14.356	VV	15124	578081	10.77%	0.523%
221	14.387	14.356	14.415	VV	15321	524794	9.78%	0.475%
222	14.423	14.415	14.441	VV	14471	216283	4.03%	0.196%
223	14.497	14.441	14.521	VV	15011	683250	12.73%	0.618%
224	14.536	14.521	14.562	VV	14902	353862	6.59%	0.320%
225	14.581	14.562	14.601	VV	14252	328929	6.13%	0.298%
226	14.608	14.601	14.615	VV	14053	118123	2.20%	0.107%
227	14.641	14.615	14.651	VV	14449	306873	5.72%	0.278%
228	14.704	14.651	14.733	VV	16618	726506	13.54%	0.657%
229	14.748	14.733	14.770	VV	15117	322164	6.00%	0.291%
230	14.795	14.770	14.828	VV	16759	525425	9.79%	0.475%
231	14.835	14.828	14.858	VV	14746	261476	4.87%	0.237%
232	14.867	14.858	14.875	VV	14367	145484	2.71%	0.132%
233	14.881	14.875	14.888	VV	14314	112582	2.10%	0.102%
234	14.914	14.888	14.934	VV	18670	450013	8.39%	0.407%
235	14.947	14.934	14.974	VV	15736	358888	6.69%	0.325%
236	15.004	14.974	15.023	VH	14509	412376	7.68%	0.373%
237	15.058	15.023	15.114	HH	16226	811454	15.12%	0.734%
238	15.127	15.114	15.145	HH	14475	265492	4.95%	0.240%
239	15.162	15.145	15.183	HH	14190	313027	5.83%	0.283%
240	15.225	15.183	15.281	HH	15227	852555	15.89%	0.771%
241	15.314	15.281	15.331	HH	15315	441141	8.22%	0.399%
242	15.342	15.331	15.381	HH	15633	451800	8.42%	0.409%
243	15.396	15.381	15.420	HH	14790	341254	6.36%	0.309%
244	15.438	15.420	15.488	HH	14550	569420	10.61%	0.515%
245	15.495	15.488	15.508	HH	14170	168853	3.15%	0.153%
246	15.534	15.508	15.554	HH	14785	404414	7.54%	0.366%

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rteres

247	15.574	15.554	15.591	HH	15082	320563	5.97%	0.290%
248	15.627	15.591	15.688	HH	15967	871613	16	
249	15.700	15.688	15.737	HH	14880	427692	7	
250	15.773	15.737	15.794	HH	15285	504274	9	
251	15.815	15.794	15.833	HH	16734	362630	6	
252	15.851	15.833	15.894	HH	15567	553205	10	
253	15.909	15.894	15.931	HH	14343	308788	5.75%	0.279%
254	15.938	15.931	15.945	HH	14400	121160	2.26%	0.110%
255	15.997	15.945	16.037	HH	16593	839216	15.64%	0.759%
256	16.111	16.037	16.121	HH	15528	758140	14.13%	0.686%
257	16.129	16.121	16.141	HH	15753	187253	3.49%	0.169%
258	16.174	16.141	16.223	HH	16027	754608	14.06%	0.683%
259	16.268	16.223	16.283	HH	15557	533776	9.95%	0.483%
260	16.301	16.283	16.319	HH	15887	330406	6.16%	0.299%
261	16.335	16.319	16.361	HH	15165	372342	6.94%	0.337%
262	16.389	16.361	16.425	HH	15301	567697	10.58%	0.514%
263	16.518	16.425	16.539	HH	15965	1060935	19.77%	0.960%
264	16.559	16.539	16.579	HH	15736	361054	6.73%	0.327%
265	16.622	16.579	16.680	HH	15838	925939	17.25%	0.838%
266	16.694	16.680	16.703	HH	14942	197093	3.67%	0.178%
267	16.777	16.703	16.804	HH	17717	977373	18.21%	0.884%
268	16.817	16.804	16.828	HH	15237	209929	3.91%	0.190%
269	16.862	16.828	16.908	HH	15584	733418	13.67%	0.663%
270	16.993	16.908	17.038	HH	18511	1232464	22.96%	1.115%
271	17.049	17.038	17.053	HH	14962	136493	2.54%	0.123%
272	17.080	17.053	17.130	HH	16575	710949	13.25%	0.643%
273	17.166	17.130	17.191	HH	16497	557171	10.38%	0.504%
274	17.217	17.191	17.261	HH	15624	621958	11.59%	0.563%
275	17.276	17.261	17.291	HH	14406	257361	4.80%	0.233%
276	17.321	17.291	17.357	HH	16159	603410	11.24%	0.546%
277	17.371	17.357	17.387	HH	14649	258426	4.82%	0.234%
278	17.402	17.387	17.421	HH	14776	287466	5.36%	0.260%
279	17.435	17.421	17.468	HH	14157	390566	7.28%	0.353%
280	17.493	17.468	17.514	HH	14622	395069	7.36%	0.357%
281	17.536	17.514	17.564	HH	14881	427629	7.97%	0.387%
282	17.582	17.564	17.604	HH	14648	341946	6.37%	0.309%
283	17.645	17.604	17.668	HH	16456	571181	10.64%	0.517%
284	17.687	17.668	17.723	HH	14301	447212	8.33%	0.405%
285	17.784	17.723	17.863	HH	18824	1244221	23.18%	1.126%
286	17.878	17.863	17.914	HH	13080	392543	7.31%	0.355%
287	17.955	17.914	17.964	HH	13629	398489	7.43%	0.360%
288	17.986	17.964	18.004	HH	13755	319862	5.96%	0.289%
289	18.011	18.004	18.048	HH	13085	326128	6.08%	0.295%
290	18.070	18.048	18.091	HH	14014	341027	6.35%	0.309%
291	18.149	18.091	18.201	HH	18797	892976	16.64%	0.808%
292	18.213	18.201	18.248	HH	11867	325783	6.07%	0.295%
293	18.269	18.248	18.284	HH	11685	254241	4.74%	0.230%
294	18.303	18.284	18.327	HH	12186	305061	5.68%	0.276%
295	18.342	18.327	18.424	HH	12011	677772	12.63%	0.613%
296	18.480	18.424	18.538	HH	13659	805111	15.00%	0.728%
297	18.571	18.538	18.598	HH	13075	419832	7.82%	0.380%
298	18.621	18.598	18.642	HH	12281	310086	5.78%	0.281%
299	18.674	18.642	18.718	HH	11377	498415	9.29%	0.451%

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rteres

300	18.749	18.718	18.764	HH	11454	312038	5.81%	0.282%
301	18.771	18.764	18.795	HH	11138	204250	3	
302	18.824	18.795	18.854	HH	10918	381090	7	
303	18.877	18.854	18.942	HH	12546	602243	11	
304	18.969	18.942	19.002	HH	11389	385478	7	
305	19.053	19.002	19.110	HH	11482	699827	13	
306	19.141	19.110	19.185	HH	10673	470895	8.77%	0.426%
307	19.197	19.185	19.218	HH	10685	203941	3.80%	0.184%
308	19.264	19.218	19.343	HH	12817	846833	15.78%	0.766%
309	19.375	19.343	19.422	HH	10956	499264	9.30%	0.452%
310	19.481	19.422	19.497	HH	10888	473745	8.83%	0.429%
311	19.563	19.497	19.608	HH	11434	727290	13.55%	0.658%
312	19.640	19.608	19.668	HH	11830	407376	7.59%	0.369%
313	19.674	19.668	19.727	HH	11860	396908	7.40%	0.359%
314	19.857	19.727	19.981	HH	15854	1936135	36.08%	1.751%
315	19.999	19.981	20.021	HH	12939	295937	5.51%	0.268%
316	20.055	20.021	20.091	HH	13427	523066	9.75%	0.473%
317	20.100	20.091	20.117	HH	12027	183967	3.43%	0.166%
318	20.165	20.117	20.235	HH	12763	879346	16.39%	0.795%
319	20.248	20.235	20.299	HH	12122	461195	8.59%	0.417%
320	20.358	20.299	20.421	HH	12646	878372	16.37%	0.795%
321	20.454	20.421	20.467	HH	12429	345621	6.44%	0.313%
322	20.529	20.467	20.561	HH	13984	727456	13.55%	0.658%
323	20.571	20.561	20.646	HH	12691	626565	11.68%	0.567%
324	20.667	20.646	20.676	HH	12294	218016	4.06%	0.197%
325	20.686	20.676	20.690	HH	12288	100272	1.87%	0.091%
326	20.723	20.690	20.769	HH	12975	584486	10.89%	0.529%
327	20.779	20.769	20.801	HH	11998	227100	4.23%	0.205%
328	20.806	20.801	20.867	HH	11874	462765	8.62%	0.419%
329	20.876	20.867	20.898	HH	11688	214195	3.99%	0.194%
330	20.908	20.898	20.939	HH	11486	281027	5.24%	0.254%
331	20.946	20.939	21.008	HH	11443	464081	8.65%	0.420%
332	21.058	21.008	21.127	HH	12947	833277	15.53%	0.754%
333	21.143	21.127	21.250	HH	11308	791348	14.75%	0.716%
334	21.258	21.250	21.306	HH	10682	356804	6.65%	0.323%
335	21.313	21.306	21.324	HH	10501	113938	2.12%	0.103%
336	21.359	21.324	21.510	HH	10479	1144645	21.33%	1.035%
337	21.610	21.510	21.637	HH	10914	802587	14.95%	0.726%
338	21.676	21.637	21.772	HH	11714	844151	15.73%	0.764%
339	21.783	21.772	21.838	HH	9661	372206	6.94%	0.337%
340	21.855	21.838	21.874	HH	9511	207386	3.86%	0.188%
341	21.881	21.874	21.934	HH	9590	338178	6.30%	0.306%
342	21.969	21.934	22.004	HH	9430	389619	7.26%	0.352%
343	22.018	22.004	22.044	HH	9321	220364	4.11%	0.199%

Sum of corrected areas: 110542150

Aliphatic EPH 111424.M Sat Nov 23 00:01:48 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048803.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:44
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-TOP

Integration File: autoint1.e
Quant Time: Nov 22 23:08:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	9909110	56.283 ug/ml
Spiked Amount 50.000		Recovery = 112.57%	
6) S 2-Flurobiphenyl (SURR)	8.217	5558802	48.266 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 96.53%	
11) S ortho-Terphenyl (SURR)	11.254	7455545	38.763 ug/ml
Spiked Amount 50.000		Recovery = 77.53%	
Target Compounds			

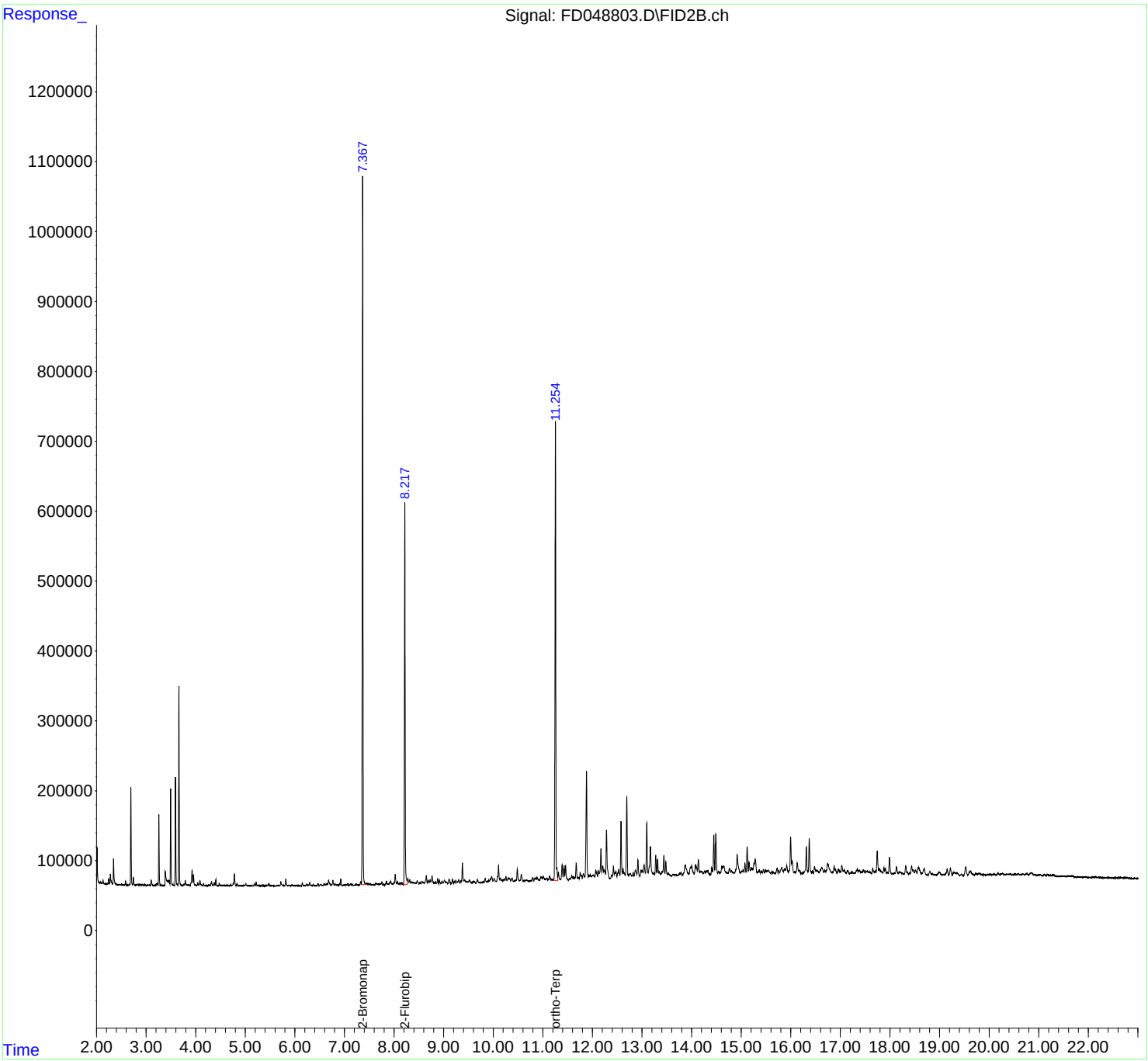
(f)=RT Delta > 1/2 Window (m)=manual int.

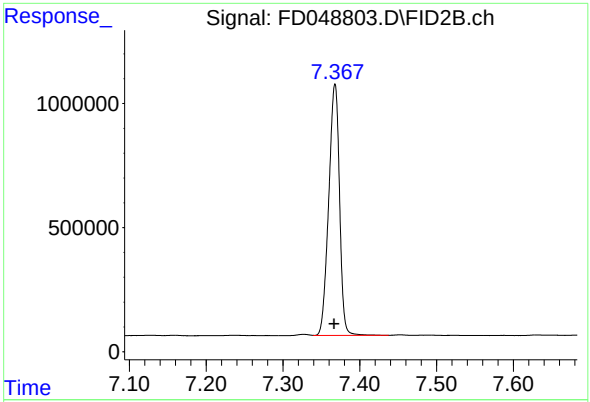
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048803.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:44
Operator : YP/AJ
Sample : P4892-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-TOP

Integration File: autoint1.e
Quant Time: Nov 22 23:08:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

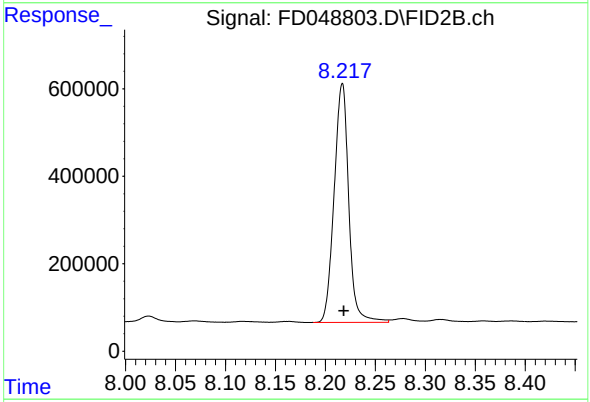




#4 2-Bromonaphthalene (SURR)

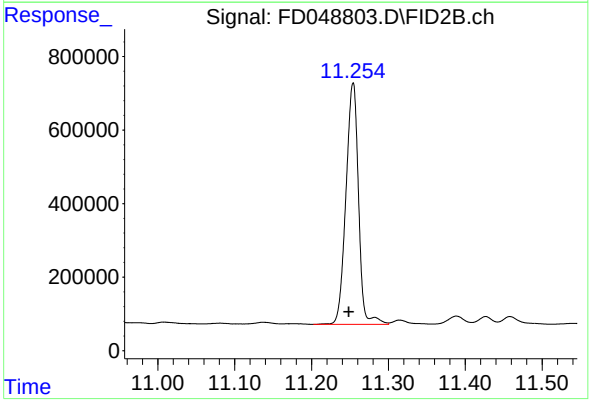
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9909110
Conc: 56.28 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-310-TOP



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.002 min
Response: 5558802
Conc: 48.27 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: 0.005 min
Response: 7455545
Conc: 38.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048803.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:44
Sample : P4892-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.087	4.052	4.140	BV	5981	55173	0.55%	0.063%
2	4.157	4.140	4.180	PV	3446	31698	0.32%	0.036%
3	4.191	4.180	4.205	VV	309	2871	0.03%	0.003%
4	4.217	4.205	4.240	VV	882	9557	0.10%	0.011%
5	4.269	4.250	4.288	VV	2065	24665	0.25%	0.028%
6	4.321	4.288	4.351	VV	6274	93351	0.94%	0.107%
7	4.376	4.351	4.390	VV	4985	57910	0.58%	0.066%
8	4.406	4.390	4.443	VV	9183	98094	0.98%	0.112%
9	4.475	4.443	4.497	VV	4138	44900	0.45%	0.051%
10	4.521	4.497	4.537	VV	1185	19611	0.20%	0.022%
11	4.563	4.537	4.578	VV	1170	21036	0.21%	0.024%
12	4.593	4.578	4.616	VV	1272	19601	0.20%	0.022%
13	4.630	4.616	4.667	VV	1383	26747	0.27%	0.031%
14	4.673	4.667	4.683	VV	523	3977	0.04%	0.005%
15	4.702	4.683	4.717	VV	1364	18155	0.18%	0.021%
16	4.725	4.717	4.734	VV	1120	9451	0.09%	0.011%
17	4.757	4.734	4.763	VV	3297	35410	0.36%	0.041%
18	4.779	4.763	4.813	VV	17195	200482	2.01%	0.230%
19	4.835	4.813	4.878	VV	3663	54031	0.54%	0.062%
20	4.884	4.878	4.890	VV	661	3527	0.04%	0.004%
21	4.902	4.890	4.925	VV	698	9908	0.10%	0.011%
22	4.970	4.925	4.989	VV	1345	26230	0.26%	0.030%
23	5.010	4.989	5.046	VV	3550	52505	0.53%	0.060%
24	5.052	5.046	5.084	VV	922	13620	0.14%	0.016%
25	5.096	5.084	5.114	VV	509	6673	0.07%	0.008%

rteres

26	5.124	5.114	5.133	VV	541	4807	0.05%	0.006%
27	5.142	5.133	5.160	VV	753	7295	0.07%	0.008%
28	5.181	5.160	5.200	VV	2789	33559	0.34%	0.038%
29	5.219	5.200	5.238	VV	5662	62278	0.62%	0.071%
30	5.250	5.238	5.261	VV	1126	12506	0.13%	0.014%
31	5.274	5.261	5.302	VV	1395	20064	0.20%	0.023%
32	5.307	5.302	5.315	VV	345	2573	0.03%	0.003%
33	5.342	5.315	5.357	VV	1283	19355	0.19%	0.022%
34	5.359	5.357	5.393	VV	819	8514	0.09%	0.010%
35	5.425	5.393	5.438	VV	1144	19874	0.20%	0.023%
36	5.450	5.438	5.457	VV	1187	11956	0.12%	0.014%
37	5.471	5.457	5.534	VV	3233	62837	0.63%	0.072%
38	5.544	5.534	5.558	VV	567	6960	0.07%	0.008%
39	5.563	5.558	5.575	VV	564	3667	0.04%	0.004%
40	5.581	5.575	5.589	VV	244	1549	0.02%	0.002%
41	5.623	5.607	5.634	PV	718	5834	0.06%	0.007%
42	5.666	5.634	5.693	VV	1058	28216	0.28%	0.032%
43	5.718	5.693	5.756	VV	6309	94705	0.95%	0.108%
44	5.769	5.756	5.790	VV	1712	22170	0.22%	0.025%
45	5.817	5.790	5.865	VV	9849	126641	1.27%	0.145%
46	5.887	5.865	5.907	VV	1203	19459	0.20%	0.022%
47	5.943	5.907	5.964	VV	1574	30160	0.30%	0.035%
48	5.972	5.964	5.978	VV	456	3174	0.03%	0.004%
49	5.982	5.978	5.996	VV	367	3470	0.03%	0.004%
50	6.007	5.996	6.027	VV	661	9134	0.09%	0.010%
51	6.030	6.027	6.038	VV	440	2817	0.03%	0.003%
52	6.041	6.038	6.055	VV	457	3081	0.03%	0.004%
53	6.060	6.055	6.064	VV	376	1768	0.02%	0.002%
54	6.080	6.064	6.094	VV	542	7461	0.07%	0.009%
55	6.101	6.094	6.130	VV	481	5318	0.05%	0.006%
56	6.151	6.130	6.174	VV	4674	49418	0.50%	0.057%
57	6.187	6.174	6.206	VV	488	6399	0.06%	0.007%
58	6.233	6.206	6.251	VV	2755	33236	0.33%	0.038%
59	6.268	6.251	6.281	VV	1832	18883	0.19%	0.022%
60	6.299	6.281	6.318	VV	4920	52760	0.53%	0.060%
61	6.331	6.318	6.352	VV	1390	14761	0.15%	0.017%
62	6.370	6.352	6.392	VV	2379	24175	0.24%	0.028%
63	6.397	6.392	6.408	VV	505	3114	0.03%	0.004%
64	6.422	6.408	6.437	PV	502	3482	0.03%	0.004%
65	6.469	6.437	6.492	VV	3560	41207	0.41%	0.047%
66	6.522	6.492	6.565	VV	2024	44781	0.45%	0.051%
67	6.587	6.565	6.603	VV	3283	37593	0.38%	0.043%
68	6.613	6.603	6.623	VV	1724	17223	0.17%	0.020%
69	6.643	6.623	6.658	VV	2896	43609	0.44%	0.050%

rteres

70	6.680	6.658	6.732	VV	8086	152387	1.53%	0.175%
71	6.767	6.732	6.792	VV	7806	110929	1.11%	0.127%
72	6.809	6.792	6.828	VV	3351	39840	0.40%	0.046%
73	6.848	6.828	6.862	VV	1820	23380	0.23%	0.027%
74	6.867	6.862	6.882	VV	1004	9649	0.10%	0.011%
75	6.899	6.882	6.909	VV	2272	24776	0.25%	0.028%
76	6.926	6.909	6.958	VV	9831	108562	1.09%	0.124%
77	6.966	6.958	6.973	PV	263	1641	0.02%	0.002%
78	7.003	6.973	7.017	VV	1111	20265	0.20%	0.023%
79	7.034	7.017	7.046	VV	1941	20173	0.20%	0.023%
80	7.066	7.046	7.085	VV	2511	35429	0.36%	0.041%
81	7.127	7.085	7.145	PV	1944	38070	0.38%	0.044%
82	7.158	7.145	7.179	VV	1973	21096	0.21%	0.024%
83	7.237	7.179	7.256	VV	1846	33773	0.34%	0.039%
84	7.261	7.256	7.272	VV	782	5918	0.06%	0.007%
85	7.278	7.272	7.290	VV	710	6602	0.07%	0.008%
86	7.295	7.290	7.306	VV	567	4783	0.05%	0.005%
87	7.327	7.306	7.342	VV	5576	61477	0.62%	0.070%
88	7.368	7.342	7.436	VV	1017449	9969807	100.00%	11.420%
89	7.453	7.436	7.470	VV	3440	45665	0.46%	0.052%
90	7.488	7.470	7.512	VV	2159	41686	0.42%	0.048%
91	7.523	7.512	7.542	VV	1482	19056	0.19%	0.022%
92	7.547	7.542	7.571	VV	847	11368	0.11%	0.013%
93	7.587	7.571	7.608	VV	1047	15074	0.15%	0.017%
94	7.631	7.608	7.645	VV	2625	38408	0.39%	0.044%
95	7.649	7.645	7.669	VV	2188	23578	0.24%	0.027%
96	7.682	7.669	7.700	VV	2021	25255	0.25%	0.029%
97	7.734	7.700	7.739	VV	2114	34790	0.35%	0.040%
98	7.754	7.739	7.783	VV	4491	60769	0.61%	0.070%
99	7.795	7.783	7.809	VV	781	9305	0.09%	0.011%
100	7.814	7.809	7.818	PV	536	2072	0.02%	0.002%
101	7.846	7.818	7.866	VV	5293	71907	0.72%	0.082%
102	7.877	7.866	7.895	VV	1951	24435	0.25%	0.028%
103	7.932	7.895	7.959	VV	4995	107999	1.08%	0.124%
104	7.963	7.959	7.973	VV	1658	11076	0.11%	0.013%
105	7.993	7.973	8.001	VV	3135	36073	0.36%	0.041%
106	8.023	8.001	8.053	VV	15016	206244	2.07%	0.236%
107	8.069	8.053	8.099	VV	4115	63978	0.64%	0.073%
108	8.117	8.099	8.145	VV	2826	46143	0.46%	0.053%
109	8.163	8.145	8.188	VV	2596	32712	0.33%	0.037%
110	8.217	8.188	8.263	VV	546477	5571099	55.88%	6.382%
111	8.277	8.263	8.300	VV	9007	133870	1.34%	0.153%
112	8.315	8.300	8.343	VV	6860	110100	1.10%	0.126%

rteres

113	8.358	8.343	8.371	VV	3543	47093	0.47%	0.054%
114	8.386	8.371	8.405	VV	3430	54410	0.55%	0.062%
115	8.420	8.405	8.450	VV	2999	59536	0.60%	0.068%
116	8.466	8.450	8.501	VV	5227	95425	0.96%	0.109%
117	8.529	8.501	8.544	VV	2430	39014	0.39%	0.045%
118	8.563	8.544	8.583	VV	4637	70383	0.71%	0.081%
119	8.592	8.583	8.613	VV	2954	42310	0.42%	0.048%
120	8.650	8.613	8.668	VV	12444	196959	1.98%	0.226%
121	8.685	8.668	8.711	VV	5354	98138	0.98%	0.112%
122	8.727	8.711	8.743	VV	6555	91246	0.92%	0.105%
123	8.766	8.743	8.816	VV	12254	225312	2.26%	0.258%
124	8.836	8.816	8.855	VV	3017	48245	0.48%	0.055%
125	8.880	8.855	8.902	VV	8032	106516	1.07%	0.122%
126	8.916	8.902	8.946	VV	5104	67972	0.68%	0.078%
127	8.966	8.946	8.985	VV	4301	59471	0.60%	0.068%
128	9.018	8.985	9.041	VV	6084	112439	1.13%	0.129%
129	9.057	9.041	9.082	VV	3119	49524	0.50%	0.057%
130	9.110	9.082	9.145	VV	6889	128123	1.29%	0.147%
131	9.177	9.145	9.196	VV	5792	83768	0.84%	0.096%
132	9.213	9.196	9.228	VV	3107	44386	0.45%	0.051%
133	9.246	9.228	9.267	VV	5161	72803	0.73%	0.083%
134	9.304	9.267	9.327	VV	5760	111056	1.11%	0.127%
135	9.349	9.327	9.360	VV	4356	60009	0.60%	0.069%
136	9.378	9.360	9.407	VV	29993	361477	3.63%	0.414%
137	9.420	9.407	9.457	VV	5058	113312	1.14%	0.130%
138	9.472	9.457	9.486	VV	3492	48199	0.48%	0.055%
139	9.523	9.486	9.560	VV	5439	131941	1.32%	0.151%
140	9.612	9.560	9.644	VV	2951	98330	0.99%	0.113%
141	9.680	9.644	9.713	VV	4773	100258	1.01%	0.115%
142	9.723	9.713	9.745	VV	1271	19887	0.20%	0.023%
143	9.761	9.745	9.773	VV	1129	16095	0.16%	0.018%
144	9.796	9.773	9.813	VV	2110	39647	0.40%	0.045%
145	9.838	9.813	9.858	VV	7167	107652	1.08%	0.123%
146	9.865	9.858	9.872	VV	2458	18796	0.19%	0.022%
147	9.878	9.872	9.891	VV	2569	28424	0.29%	0.033%
148	9.910	9.891	9.922	VV	3903	61128	0.61%	0.070%
149	9.941	9.922	9.951	VV	6285	82889	0.83%	0.095%
150	9.970	9.951	9.995	VV	9700	176407	1.77%	0.202%
151	10.021	9.995	10.067	VV	7123	174941	1.75%	0.200%
152	10.107	10.067	10.129	VV	24984	407089	4.08%	0.466%
153	10.144	10.129	10.165	VV	7379	122785	1.23%	0.141%
154	10.179	10.165	10.194	VV	4338	65583	0.66%	0.075%
155	10.217	10.194	10.237	VV	5149	111569	1.12%	0.128%

rteres

156	10.257	10.237	10.278	VV	8952	143870	1.44%	0.165%
157	10.302	10.278	10.317	VV	6940	131081	1.31%	0.150%
158	10.325	10.317	10.353	VV	6449	113419	1.14%	0.130%
159	10.380	10.353	10.406	VV	6677	147113	1.48%	0.169%
160	10.428	10.406	10.434	VV	3113	43856	0.44%	0.050%
161	10.456	10.434	10.465	VV	3497	61216	0.61%	0.070%
162	10.486	10.465	10.533	VV	19632	316233	3.17%	0.362%
163	10.566	10.533	10.606	VV	12021	248019	2.49%	0.284%
164	10.620	10.606	10.635	VV	3015	44901	0.45%	0.051%
165	10.673	10.635	10.694	VV	4087	112358	1.13%	0.129%
166	10.705	10.694	10.722	VV	2673	37841	0.38%	0.043%
167	10.745	10.722	10.754	VV	2415	40849	0.41%	0.047%
168	10.762	10.754	10.771	VV	2331	23878	0.24%	0.027%
169	10.797	10.771	10.819	VV	6983	127430	1.28%	0.146%
170	10.834	10.819	10.842	VV	5766	62347	0.63%	0.071%
171	10.852	10.842	10.863	VV	5999	67979	0.68%	0.078%
172	10.881	10.863	10.907	VV	7659	147925	1.48%	0.169%
173	10.911	10.907	10.936	VV	3966	62300	0.62%	0.071%
174	10.958	10.936	10.967	VV	7410	105659	1.06%	0.121%
175	10.972	10.967	10.991	VV	7170	94540	0.95%	0.108%
176	11.008	10.991	11.060	VV	8639	239093	2.40%	0.274%
177	11.081	11.060	11.101	VV	5916	116346	1.17%	0.133%
178	11.106	11.101	11.111	VV	3806	22686	0.23%	0.026%
179	11.137	11.111	11.162	VV	8243	170731	1.71%	0.196%
180	11.176	11.162	11.201	VV	4277	86749	0.87%	0.099%
181	11.254	11.201	11.276	VV	659113	7384186	74.07%	8.459%
182	11.282	11.276	11.300	VV	21410	214798	2.15%	0.246%
183	11.314	11.300	11.358	VV	13848	246263	2.47%	0.282%
184	11.389	11.358	11.409	VV	24744	391225	3.92%	0.448%
185	11.427	11.409	11.442	VV	23672	302475	3.03%	0.346%
186	11.458	11.442	11.517	VV	23281	413109	4.14%	0.473%
187	11.541	11.517	11.559	VV	4687	98517	0.99%	0.113%
188	11.583	11.559	11.604	VV	7611	171589	1.72%	0.197%
189	11.620	11.604	11.639	VV	7336	123059	1.23%	0.141%
190	11.673	11.639	11.697	VV	26562	431328	4.33%	0.494%
191	11.704	11.697	11.731	VV	6074	111364	1.12%	0.128%
192	11.754	11.731	11.769	VV	13089	198973	2.00%	0.228%
193	11.778	11.769	11.795	VV	9231	116402	1.17%	0.133%
194	11.817	11.795	11.846	VV	10919	259079	2.60%	0.297%
195	11.881	11.846	11.916	VV	157795	2203617	22.10%	2.524%
196	11.930	11.916	11.942	VV	8755	125919	1.26%	0.144%
197	11.954	11.942	11.966	VV	8896	117301	1.18%	0.134%
198	11.978	11.966	11.986	VV	8035	89490	0.90%	0.103%
199	12.000	11.986	12.011	VV	9089	126199	1.27%	0.145%

rteres

200	12.024	12.011	12.049	VV	9924	187738	1.88%	0.215%
201	12.067	12.049	12.080	VV	16462	221369	2.22%	0.254%
202	12.087	12.080	12.104	VV	12098	141688	1.42%	0.162%
203	12.124	12.104	12.138	VV	15343	245639	2.46%	0.281%
204	12.172	12.138	12.191	VV	46746	757813	7.60%	0.868%
205	12.209	12.191	12.225	VV	21860	370052	3.71%	0.424%
206	12.236	12.225	12.265	VV	16705	338381	3.39%	0.388%
207	12.284	12.265	12.363	VV	73275	1209609	12.13%	1.386%
208	12.387	12.363	12.401	VV	8968	151733	1.52%	0.174%
209	12.424	12.401	12.441	VV	20744	322488	3.23%	0.369%
210	12.453	12.441	12.462	VV	12334	136895	1.37%	0.157%
211	12.474	12.462	12.494	VV	14408	217892	2.19%	0.250%
212	12.529	12.494	12.554	VV	16473	406334	4.08%	0.465%
213	12.577	12.554	12.603	VV	85272	1062761	10.66%	1.217%
214	12.619	12.603	12.633	VV	17707	247279	2.48%	0.283%
215	12.641	12.633	12.663	VV	11866	173369	1.74%	0.199%
216	12.693	12.663	12.728	VV	121060	1620510	16.25%	1.856%
217	12.764	12.728	12.789	VV	10305	329991	3.31%	0.378%
218	12.795	12.789	12.803	VV	7550	61370	0.62%	0.070%
219	12.823	12.803	12.841	VV	12067	204037	2.05%	0.234%
220	12.865	12.841	12.897	VV	14932	390387	3.92%	0.447%
221	12.918	12.897	12.958	VV	29776	538621	5.40%	0.617%
222	12.980	12.958	12.993	VV	15139	239835	2.41%	0.275%
223	13.004	12.993	13.022	VV	14934	232558	2.33%	0.266%
224	13.041	13.022	13.071	VV	22595	484013	4.85%	0.554%
225	13.096	13.071	13.123	VV	82295	1134493	11.38%	1.300%
226	13.170	13.123	13.227	VV	48704	1262302	12.66%	1.446%
227	13.245	13.227	13.257	VV	11377	180041	1.81%	0.206%
228	13.277	13.257	13.297	VV	35917	511062	5.13%	0.585%
229	13.314	13.297	13.335	VV	29618	438039	4.39%	0.502%
230	13.347	13.335	13.365	VV	12575	198739	1.99%	0.228%
231	13.376	13.365	13.386	VV	9824	118133	1.18%	0.135%
232	13.400	13.386	13.413	VV	12325	182047	1.83%	0.209%
233	13.441	13.413	13.462	VV	34974	582153	5.84%	0.667%
234	13.481	13.462	13.510	VV	26388	444959	4.46%	0.510%
235	13.530	13.510	13.565	VV	9645	278794	2.80%	0.319%
236	13.570	13.565	13.597	VV	6966	121013	1.21%	0.139%
237	13.629	13.597	13.648	VV	7990	224383	2.25%	0.257%
238	13.660	13.648	13.668	VV	7689	87062	0.87%	0.100%
239	13.678	13.668	13.695	VV	7718	118329	1.19%	0.136%
240	13.707	13.695	13.722	VV	7023	108075	1.08%	0.124%
241	13.758	13.722	13.772	VV	9817	246056	2.47%	0.282%
242	13.787	13.772	13.820	VV	10643	247435	2.48%	0.283%

rteres

243	13.838	13.820	13.843	VV	10152	121877	1.22%	0.140%
244	13.876	13.843	13.941	VV	21200	831628	8.34%	0.953%
245	13.980	13.941	13.990	VV	18310	405973	4.07%	0.465%
246	14.003	13.990	14.052	VV	19344	515643	5.17%	0.591%
247	14.078	14.052	14.092	VV	20941	370868	3.72%	0.425%
248	14.100	14.092	14.117	VV	17833	229789	2.30%	0.263%
249	14.137	14.117	14.163	VV	28214	518448	5.20%	0.594%
250	14.173	14.163	14.192	VV	12402	196287	1.97%	0.225%
251	14.201	14.192	14.236	VV	11578	271498	2.72%	0.311%
252	14.261	14.236	14.283	VV	12332	295288	2.96%	0.338%
253	14.301	14.283	14.314	VV	12408	205806	2.06%	0.236%
254	14.328	14.314	14.383	VV	12962	385417	3.87%	0.441%
255	14.405	14.383	14.422	VV	17119	274867	2.76%	0.315%
256	14.448	14.422	14.467	VV	63647	862094	8.65%	0.988%
257	14.488	14.467	14.524	VV	64325	1017875	10.21%	1.166%
258	14.543	14.524	14.561	VV	11511	224265	2.25%	0.257%
259	14.574	14.561	14.584	VV	9662	127643	1.28%	0.146%
260	14.608	14.584	14.620	VV	18474	302600	3.04%	0.347%
261	14.634	14.620	14.645	VV	19057	269816	2.71%	0.309%
262	14.652	14.645	14.715	VV	18239	504434	5.06%	0.578%
263	14.728	14.715	14.732	VV	8737	86266	0.87%	0.099%
264	14.763	14.732	14.790	VV	15027	407120	4.08%	0.466%
265	14.807	14.790	14.826	VV	12036	234701	2.35%	0.269%
266	14.835	14.826	14.851	VV	9577	130946	1.31%	0.150%
267	14.919	14.851	14.983	VV	34603	1250095	12.54%	1.432%
268	15.037	14.983	15.053	VV	12810	446024	4.47%	0.511%
269	15.076	15.053	15.097	VV	21958	386297	3.87%	0.442%
270	15.120	15.097	15.141	VV	45921	670217	6.72%	0.768%
271	15.158	15.141	15.185	VV	23861	438370	4.40%	0.502%
272	15.202	15.185	15.214	VV	16100	247761	2.49%	0.284%
273	15.225	15.214	15.236	VV	14060	176101	1.77%	0.202%
274	15.259	15.236	15.267	VV	22699	348357	3.49%	0.399%
275	15.280	15.267	15.332	VV	27427	685449	6.88%	0.785%
276	15.362	15.332	15.384	VV	11956	320027	3.21%	0.367%
277	15.402	15.384	15.428	VV	10403	251925	2.53%	0.289%
278	15.448	15.428	15.470	VV	12918	259163	2.60%	0.297%
279	15.488	15.470	15.505	VV	12168	226421	2.27%	0.259%
280	15.520	15.505	15.540	VV	10834	216808	2.17%	0.248%
281	15.554	15.540	15.600	VV	11597	337350	3.38%	0.386%
282	15.622	15.600	15.642	VV	9349	207763	2.08%	0.238%
283	15.655	15.642	15.672	VV	8488	136108	1.37%	0.156%
284	15.688	15.672	15.695	VV	7703	100789	1.01%	0.115%
285	15.720	15.695	15.743	VV	13544	307346	3.08%	0.352%

rteres

286	15.759	15.743	15.779	VV	11359	201406	2.02%	0.231%
287	15.820	15.779	15.851	VV	15440	514620	5.16%	0.589%
288	15.880	15.851	15.896	VV	12847	308842	3.10%	0.354%
289	15.918	15.896	15.952	VV	18017	438625	4.40%	0.502%
290	15.997	15.952	16.018	VV	58767	1029722	10.33%	1.180%
291	16.028	16.018	16.063	VV	24595	423906	4.25%	0.486%
292	16.074	16.063	16.095	VV	8624	159147	1.60%	0.182%
293	16.130	16.095	16.158	VV	21392	503943	5.05%	0.577%
294	16.170	16.158	16.211	VV	11075	280272	2.81%	0.321%
295	16.253	16.211	16.262	VV	7833	207942	2.09%	0.238%
296	16.314	16.262	16.348	VV	43622	841937	8.44%	0.964%
297	16.373	16.348	16.421	VV	55891	942031	9.45%	1.079%
298	16.435	16.421	16.453	VV	8625	152125	1.53%	0.174%
299	16.478	16.453	16.519	VV	15874	442981	4.44%	0.507%
300	16.531	16.519	16.573	VV	10366	290571	2.91%	0.333%
301	16.624	16.573	16.668	VV	14334	616926	6.19%	0.707%
302	16.686	16.668	16.702	VV	10234	182895	1.83%	0.210%
303	16.742	16.702	16.825	VV	19855	902820	9.06%	1.034%
304	16.839	16.825	16.852	VV	7938	116600	1.17%	0.134%
305	16.874	16.852	16.890	VV	16031	269728	2.71%	0.309%
306	16.902	16.890	16.930	VV	11980	216412	2.17%	0.248%
307	16.964	16.930	16.982	VV	12393	282208	2.83%	0.323%
308	16.993	16.982	17.007	VV	8841	120889	1.21%	0.138%
309	17.029	17.007	17.060	VV	17053	366846	3.68%	0.420%
310	17.077	17.060	17.120	VV	10214	280543	2.81%	0.321%
311	17.148	17.120	17.179	VV	9318	257643	2.58%	0.295%
312	17.194	17.179	17.204	VV	5301	79589	0.80%	0.091%
313	17.225	17.204	17.239	VV	6915	131870	1.32%	0.151%
314	17.249	17.239	17.272	VV	6491	112623	1.13%	0.129%
315	17.281	17.272	17.289	VV	5864	57720	0.58%	0.066%
316	17.343	17.289	17.359	VV	10623	339657	3.41%	0.389%
317	17.386	17.359	17.410	VV	9178	247246	2.48%	0.283%
318	17.418	17.410	17.442	VV	6732	122743	1.23%	0.141%
319	17.465	17.442	17.500	VV	9643	267163	2.68%	0.306%
320	17.518	17.500	17.540	VV	8108	175565	1.76%	0.201%
321	17.544	17.540	17.578	VV	7731	159265	1.60%	0.182%
322	17.595	17.578	17.621	VV	7114	155804	1.56%	0.178%
323	17.653	17.621	17.673	VV	12056	238322	2.39%	0.273%
324	17.680	17.673	17.690	VV	6801	65949	0.66%	0.076%
325	17.708	17.690	17.720	VV	8151	126767	1.27%	0.145%
326	17.743	17.720	17.773	VV	36864	626650	6.29%	0.718%
327	17.789	17.773	17.817	VV	11828	245808	2.47%	0.282%
328	17.822	17.817	17.827	VV	7123	42085	0.42%	0.048%
329	17.830	17.827	17.854	VV	7233	98160	0.98%	0.112%

rteres

330	17.877	17.854	17.893	VV	12741	209150	2.10%	0.240%
331	17.906	17.893	17.930	VV	11904	190480	1.91%	0.218%
332	17.946	17.930	17.963	VV	6333	106125	1.06%	0.122%
333	17.989	17.963	18.026	VV	27325	446869	4.48%	0.512%
334	18.037	18.026	18.065	VV	4033	87352	0.88%	0.100%
335	18.072	18.065	18.076	VV	3694	23199	0.23%	0.027%
336	18.091	18.076	18.101	VV	4409	60423	0.61%	0.069%
337	18.130	18.101	18.171	VV	13476	301460	3.02%	0.345%
338	18.192	18.171	18.200	VBA	6698	104135	1.04%	0.119%

Sum of corrected areas: 87298863

Aromatic EPH 111424.M Sat Nov 23 00:19:35 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067853.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 13:20
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOT

Integration File: sample.E
Quant Time: Nov 22 22:22:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.943	5536947	38.144 ug/ml
Spiked Amount 50.000		Recovery = 76.29%	
Target Compounds			

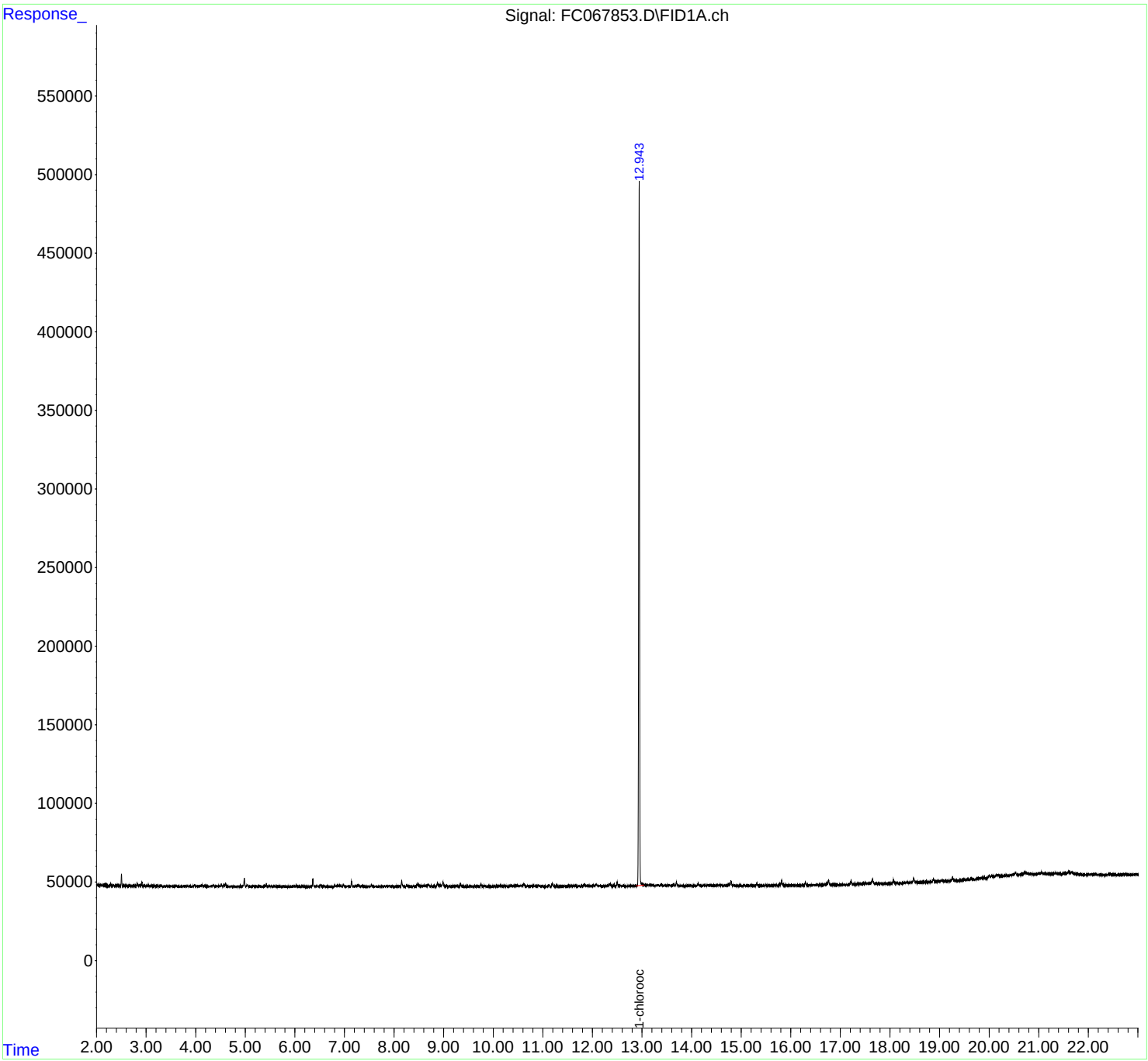
(f)=RT Delta > 1/2 Window (m)=manual int.

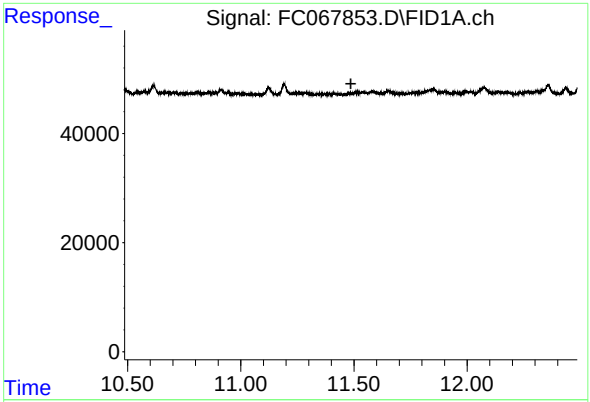
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067853.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 13:20
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOT

Integration File: sample.E
Quant Time: Nov 22 22:22:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

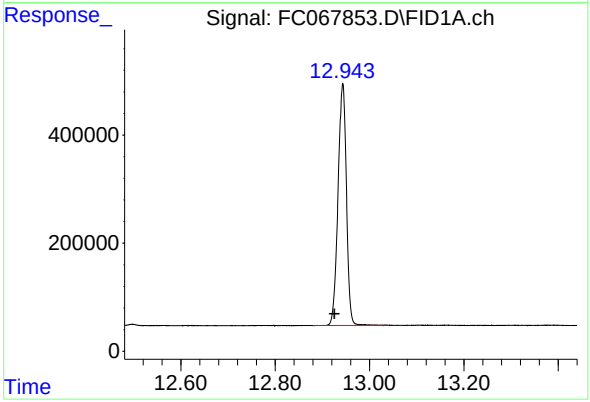




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-310-BOT



#12 1-chlorooctadecane (SURR)

R.T.: 12.943 min
Delta R.T.: 0.017 min
Response: 5536947
Conc: 38.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067853.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 13:20
Sample : P4892-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.980	4.865	5.012	BV	5353	70204	1.27%	1.223%
2	6.362	6.307	6.409	BB	4942	49793	0.90%	0.867%
3	7.144	7.107	7.175	BB	3593	40383	0.73%	0.703%
4	8.154	8.127	8.199	BB	3414	43051	0.78%	0.750%
5	12.943	12.880	13.040	BB	450399	5536947	100.00%	96.456%

Sum of corrected areas: 5740376

Aliphatic EPH 111424.M Sat Nov 23 04:04:54 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048804.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 13:20
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-BOT

Integration File: autoint1.e
Quant Time: Nov 22 23:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.366	8364500	47.510 ug/ml
Spiked Amount 50.000		Recovery =	95.02%
6) S 2-Flurobiphenyl (SURR)	8.216	5561237	48.287 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	96.57%
11) S ortho-Terphenyl (SURR)	11.253	6462912	33.602 ug/ml
Spiked Amount 50.000		Recovery =	67.20%
Target Compounds			

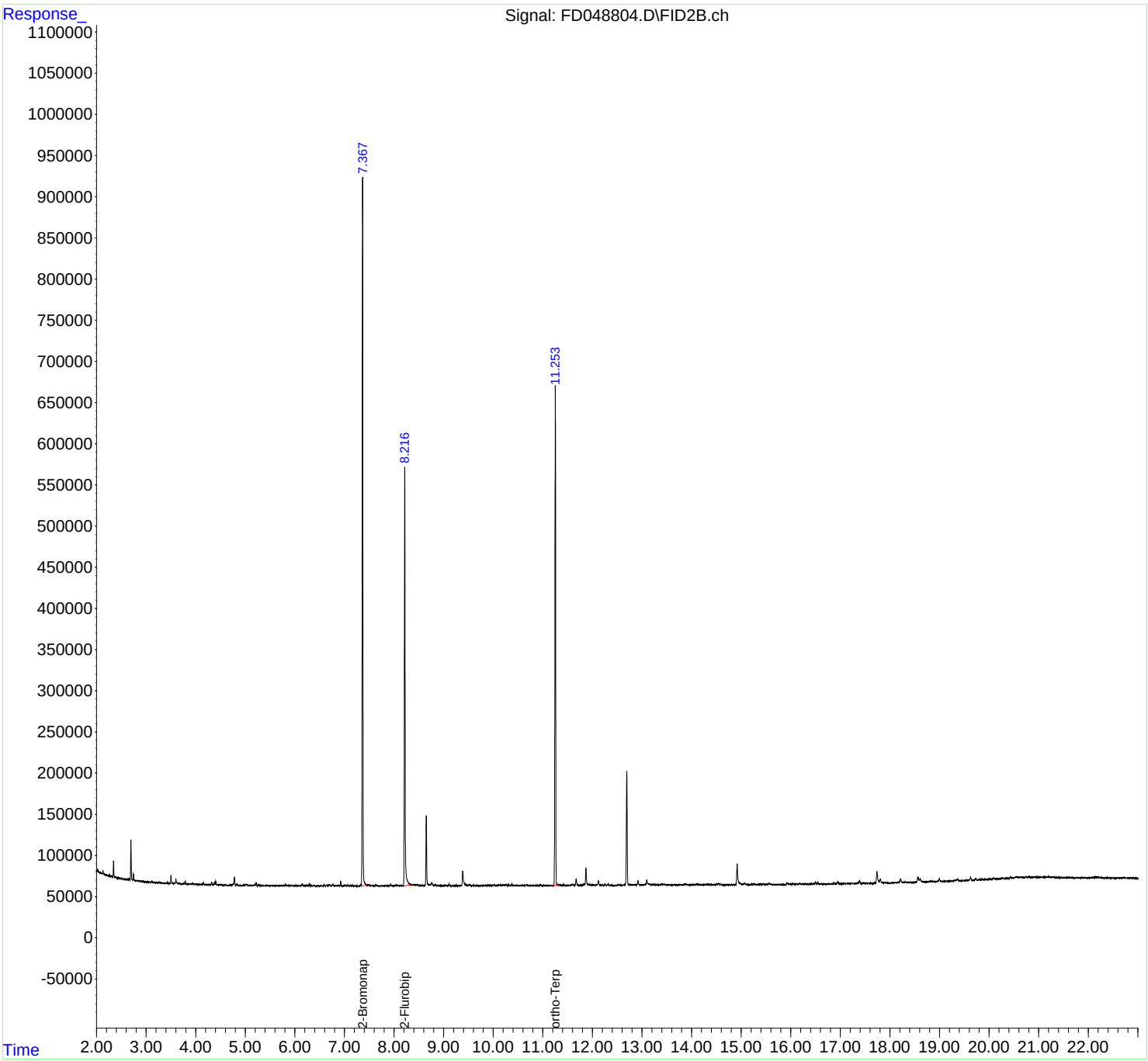
(f)=RT Delta > 1/2 Window (m)=manual int.

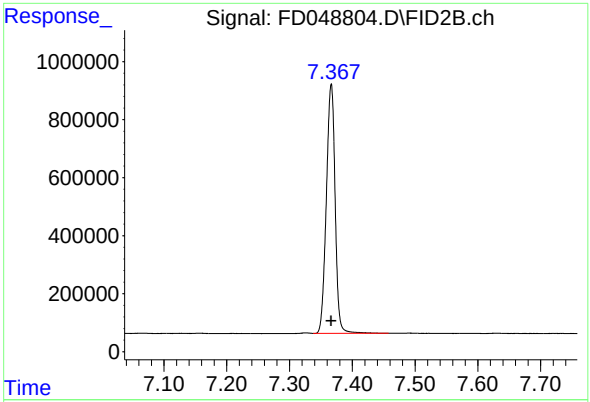
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048804.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 13:20
Operator : YP/AJ
Sample : P4892-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-BOT

Integration File: autoint1.e
Quant Time: Nov 22 23:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

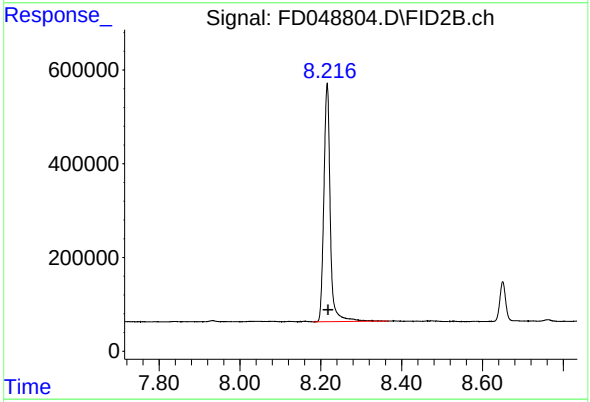




#4 2-Bromonaphthalene (SURR)

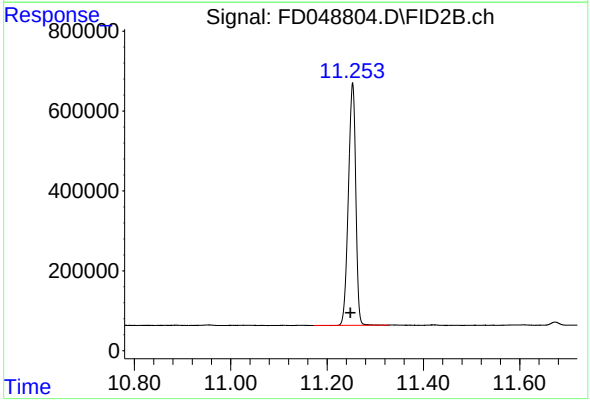
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 8364500
Conc: 47.51 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-310-BOT



#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.003 min
Response: 5561237
Conc: 48.29 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: 0.004 min
Response: 6462912
Conc: 33.60 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048804.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 13:20
Sample : P4892-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.780	4.645	4.815	BV	9322	131347	1.57%	0.542%
2	7.366	7.338	7.458	PB	867658	8364500	100.00%	34.507%
3	8.216	8.181	8.368	PV	503693	5561237	66.49%	22.942%
4	8.650	8.601	8.715	BV	84437	850192	10.16%	3.507%
5	9.385	9.363	9.485	PB	17676	289991	3.47%	1.196%
6	11.253	11.171	11.328	BB	611278	6462912	77.27%	26.662%
7	11.674	11.638	11.700	BV	7853	91166	1.09%	0.376%
8	11.869	11.846	11.961	VB	20614	268050	3.20%	1.106%
9	12.694	12.605	12.761	BB	138743	1604779	19.19%	6.620%
10	14.919	14.861	15.038	BB	24749	407439	4.87%	1.681%
11	17.739	17.701	17.788	BV	13628	208475	2.49%	0.860%
					Sum of corrected areas:	24240088		

Aromatic EPH 111424.M Sat Nov 23 04:15:44 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067843.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 13:08
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-SW

Integration File: autoint1.e
Quant Time: Nov 22 00:25:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.942	5964500	41.089 ug/ml
Spiked Amount 50.000		Recovery = 82.18%	
Target Compounds			

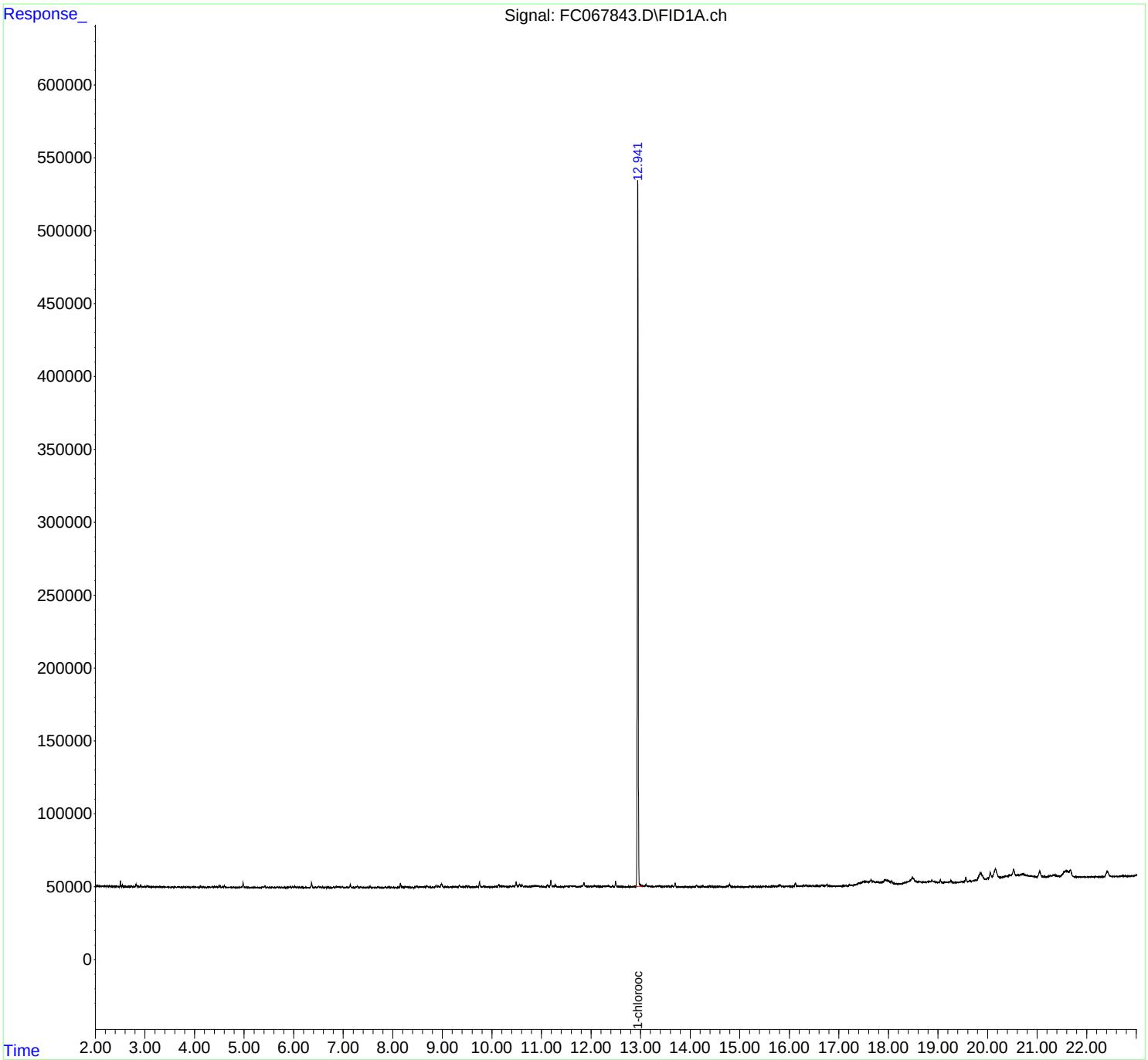
(f)=RT Delta > 1/2 Window (m)=manual int.

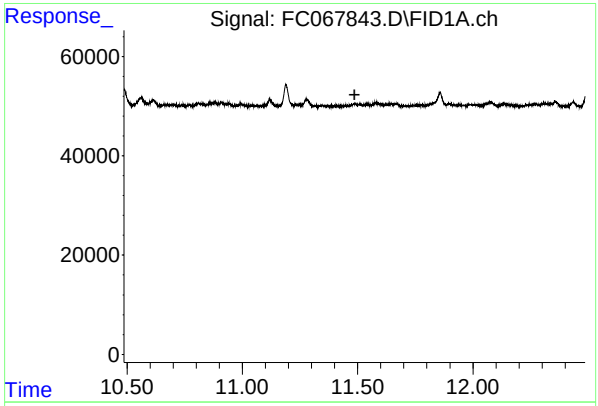
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067843.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 13:08
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-SW

Integration File: autoint1.e
Quant Time: Nov 22 00:25:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

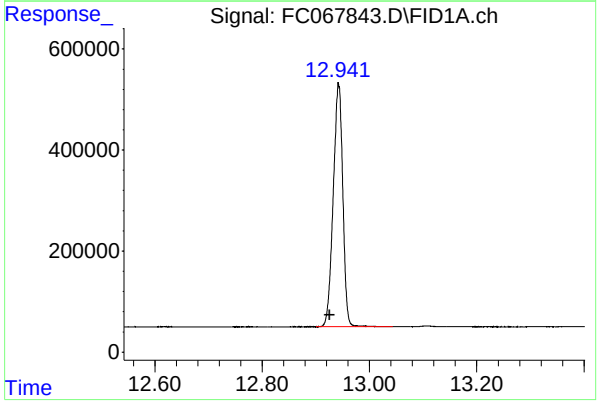




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-310-SW



#12 1-chlorooctadecane (SURR)

R.T.: 12.942 min
Delta R.T.: 0.017 min
Response: 5964500
Conc: 41.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067843.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 13:08
Sample : P4892-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.362	6.309	6.407	BB	3474	36846	0.62%	0.478%
2	9.751	9.632	9.797	BB	3637	50624	0.85%	0.657%
3	10.488	10.322	10.520	BV	3181	69937	1.17%	0.908%
4	11.189	11.162	11.225	BB	4222	54643	0.92%	0.710%
5	12.496	12.467	12.539	BB	3845	50316	0.84%	0.653%
6	12.942	12.900	13.044	BB	483596	5964500	100.00%	77.455%
7	18.483	18.290	18.587	BB	3315	200130	3.36%	2.599%
8	19.849	19.755	19.967	BV	4540	236531	3.97%	3.072%
9	20.053	19.967	20.090	PV	4189	114134	1.91%	1.482%
10	20.157	20.090	20.247	VB	6220	274578	4.60%	3.566%
11	20.526	20.302	20.584	BB	4545	143588	2.41%	1.865%
12	21.051	20.984	21.115	BB	3718	91411	1.53%	1.187%
13	21.578	21.450	21.629	BV	3955	243899	4.09%	3.167%
14	21.671	21.629	21.745	VB	4473	169414	2.84%	2.200%
			Sum of corrected areas:			7700551		

Aliphatic EPH 111424.M Fri Nov 22 03:58:36 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048794.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 13:08
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-SW

Integration File: autoint1.e
Quant Time: Nov 22 00:51:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	8435681	47.914 ug/ml
Spiked Amount 50.000		Recovery =	95.83%
6) S 2-Flurobiphenyl (SURR)	8.216	5633975	48.919 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	97.84%
11) S ortho-Terphenyl (SURR)	11.255	8871010	46.123 ug/ml
Spiked Amount 50.000		Recovery =	92.25%
Target Compounds			

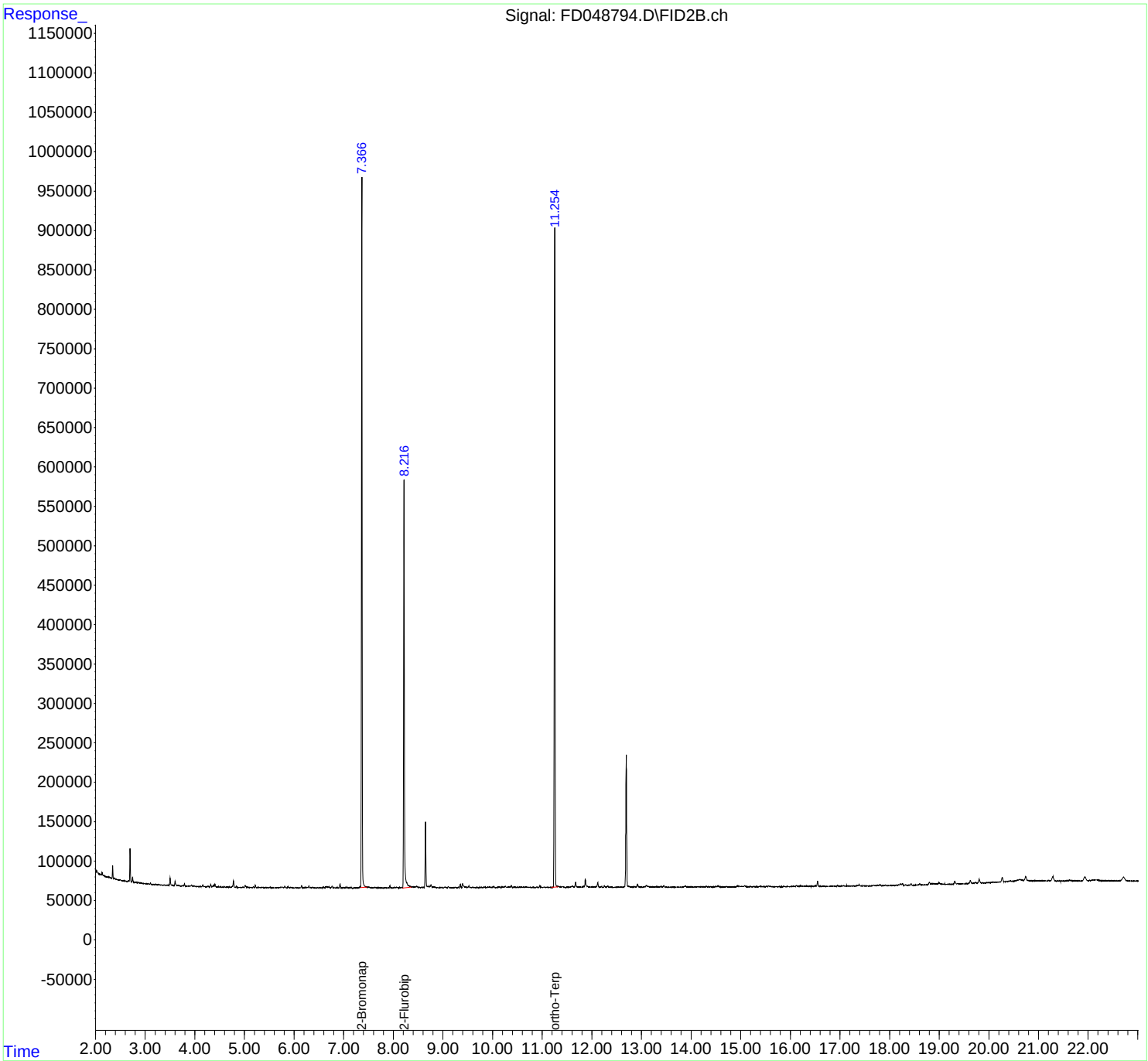
(f)=RT Delta > 1/2 Window (m)=manual int.

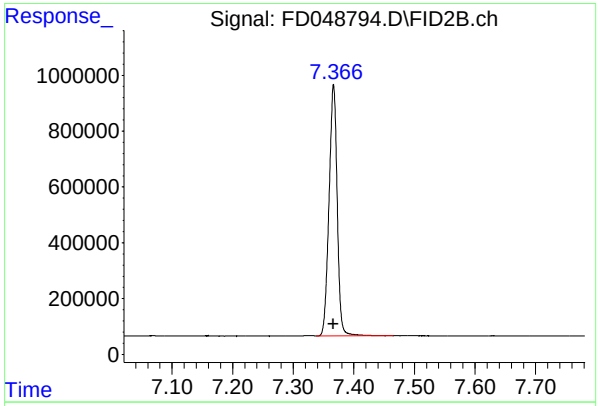
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048794.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 13:08
Operator : YP/AJ
Sample : P4892-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-SW

Integration File: autoint1.e
Quant Time: Nov 22 00:51:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

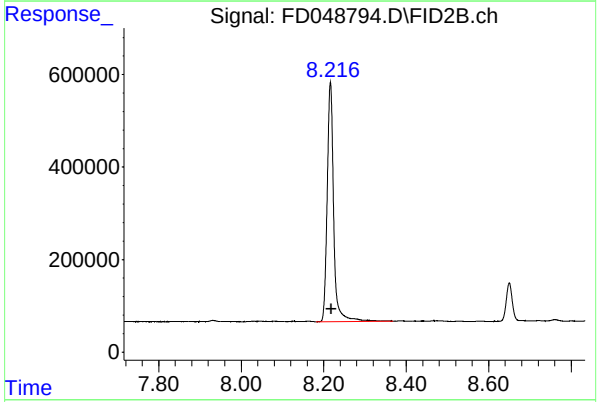




#4 2-Bromonaphthalene (SURR)

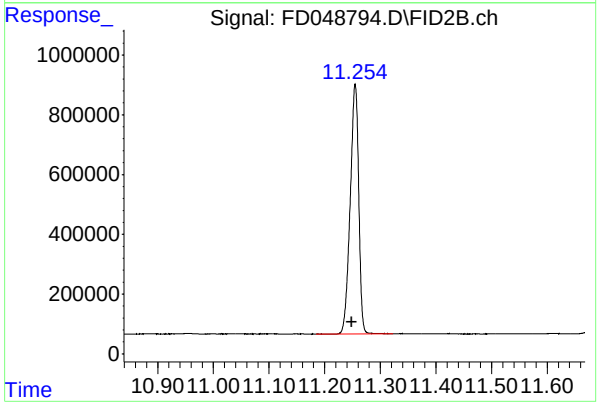
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 8435681
Conc: 47.91 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-310-SW



#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 5633975
Conc: 48.92 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: 0.006 min
Response: 8871010
Conc: 46.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048794.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 13:08
Sample : P4892-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.780	4.711	4.815	BV	8367	106190	1.20%	0.409%
2	7.367	7.338	7.465	VB	902404	8435681	95.09%	32.468%
3	8.216	8.181	8.368	PV	518067	5633975	63.51%	21.684%
4	8.650	8.601	8.695	BV	82643	829410	9.35%	3.192%
5	11.255	11.185	11.323	BV	837902	8871010	100.00%	34.143%
6	11.870	11.848	11.938	VB	10221	134622	1.52%	0.518%
7	12.694	12.601	12.727	BV	168177	1970742	22.22%	7.585%
			Sum of corrected areas:			25981630		

Aromatic EPH 111424.M Fri Nov 22 04:10:22 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067840.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:16
Operator : YP/AJ
Sample : PB165151BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165151BL

Integration File: autoint1.e
Quant Time: Nov 22 00:24:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.942	5095095	35.100 ug/ml
Spiked Amount 50.000		Recovery = 70.20%	
Target Compounds			

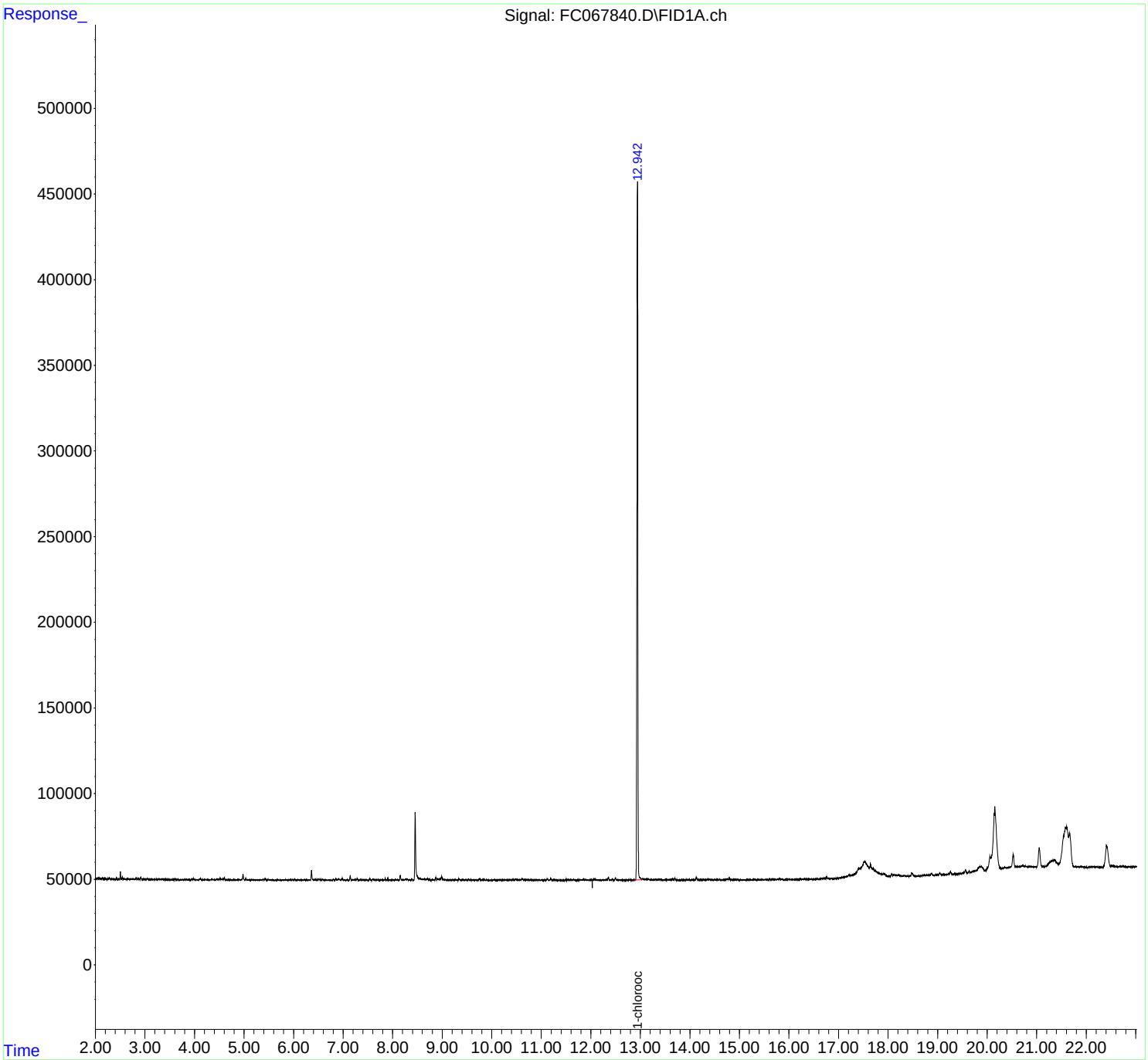
(f)=RT Delta > 1/2 Window (m)=manual int.

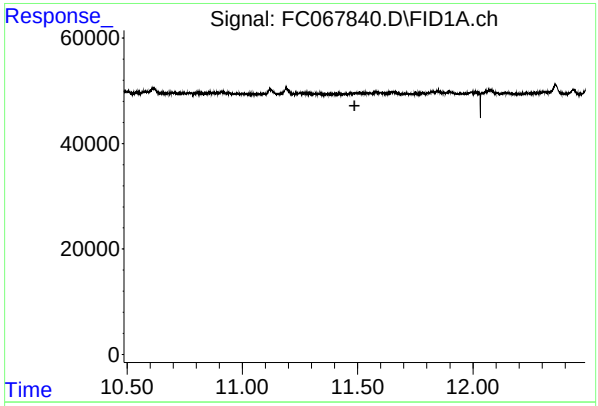
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067840.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:16
Operator : YP/AJ
Sample : PB165151BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165151BL

Integration File: autoint1.e
Quant Time: Nov 22 00:24:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

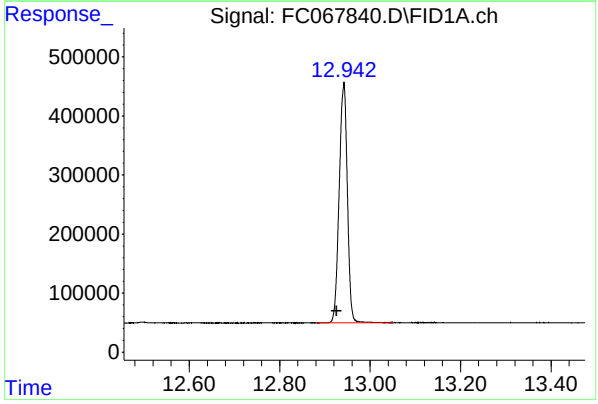




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB165151BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.942 min
Delta R.T.: 0.016 min
Response: 5095095
Conc: 35.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067840.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:16
Sample : PB165151BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	12.942	12.880	13.050	BB	406499	5095095	100.00%	100.000%
			Sum of corrected areas:			5095095		

Aliphatic EPH 111424.M Fri Nov 22 01:18:03 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048791.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:16
Operator : YP/AJ
Sample : PB165151BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165151BL

Integration File: autoint1.e
Quant Time: Nov 22 00:50:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	11279380	64.066 ug/ml
Spiked Amount 50.000		Recovery = 128.13%	
6) S 2-Flurobiphenyl (SURR)	8.217	6755816	58.659 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 117.32%	
11) S ortho-Terphenyl (SURR)	11.256	11233199	58.404 ug/ml
Spiked Amount 50.000		Recovery = 116.81%	
Target Compounds			

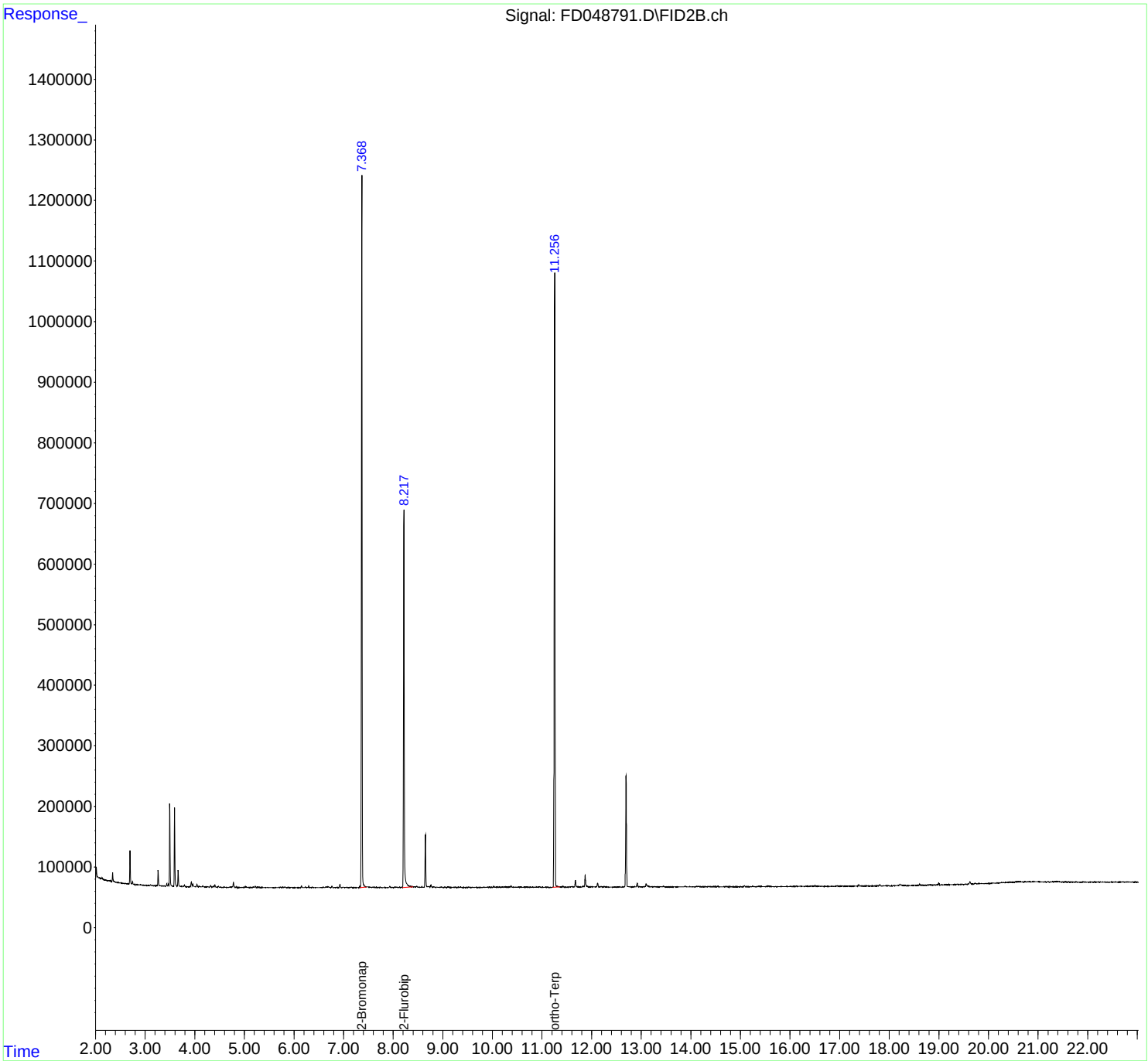
(f)=RT Delta > 1/2 Window (m)=manual int.

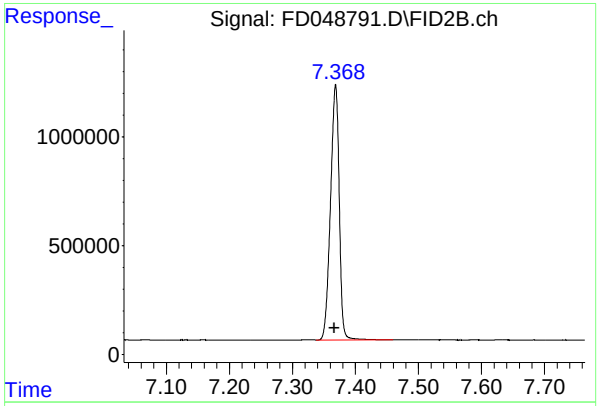
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048791.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:16
Operator : YP/AJ
Sample : PB165151BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165151BL

Integration File: autoint1.e
Quant Time: Nov 22 00:50:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

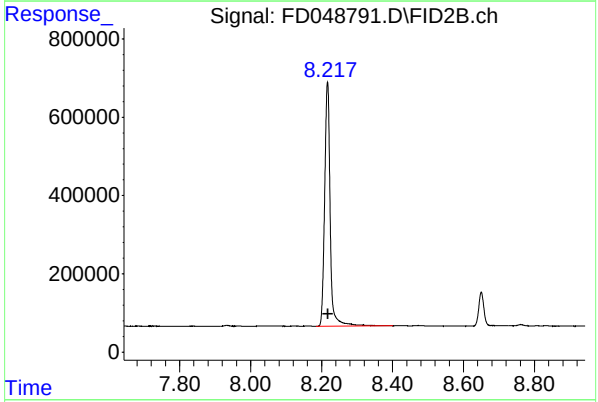




#4 2-Bromonaphthalene (SURR)

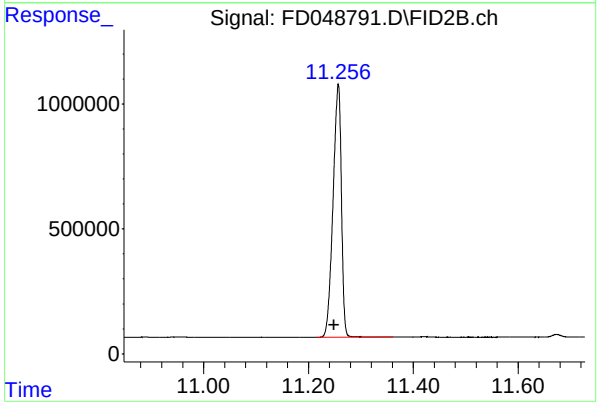
R.T.: 7.368 min
Delta R.T.: 0.002 min
Response: 11279380
Conc: 64.07 ug/ml

Instrument :
FID_D
ClientSampleId :
PB165151BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.002 min
Response: 6755816
Conc: 58.66 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.256 min
Delta R.T.: 0.008 min
Response: 11233199
Conc: 58.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048791.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:16
Sample : PB165151BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	7.368	7.337	7.459	PB	1168418	11279380	100.00%	38.538%
2	8.217	8.185	8.401	PV	630262	6755816	59.90%	23.082%
3	11.256	11.215	11.361	BB	1030850	11233199	99.59%	38.380%

Sum of corrected areas: 29268395

Aromatic EPH 111424.M Fri Nov 22 01:36:17 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067849.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 10:55
Operator : YP/AJ
Sample : PB165188BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165188BL

Integration File: sample.E
Quant Time: Nov 22 22:20:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.942	5125398	35.308 ug/ml
Spiked Amount 50.000		Recovery = 70.62%	
Target Compounds			

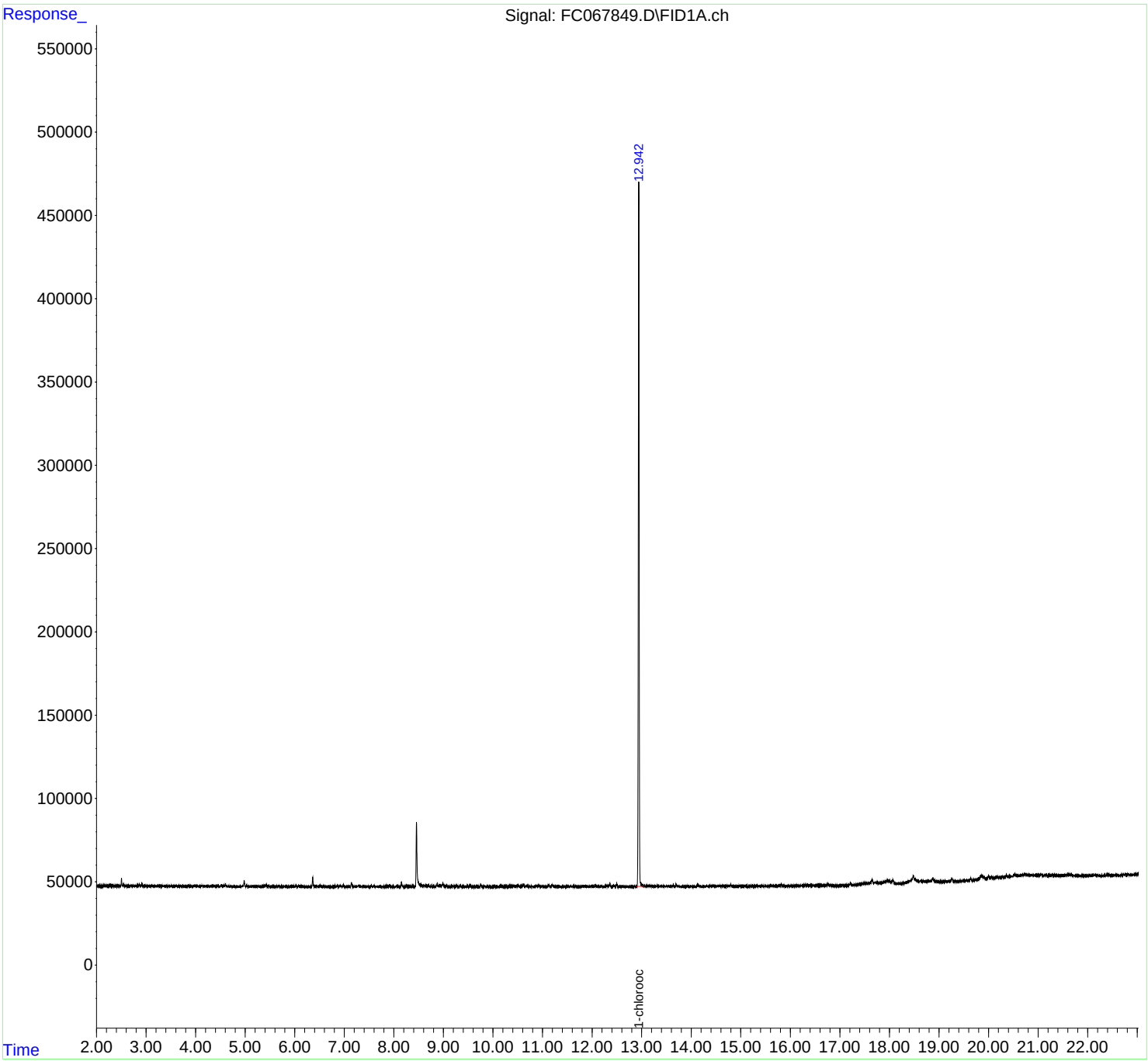
(f)=RT Delta > 1/2 Window (m)=manual int.

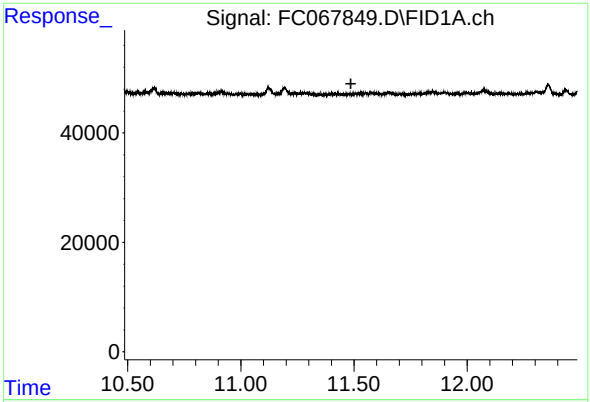
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067849.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 10:55
Operator : YP/AJ
Sample : PB165188BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165188BL

Integration File: sample.E
Quant Time: Nov 22 22:20:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

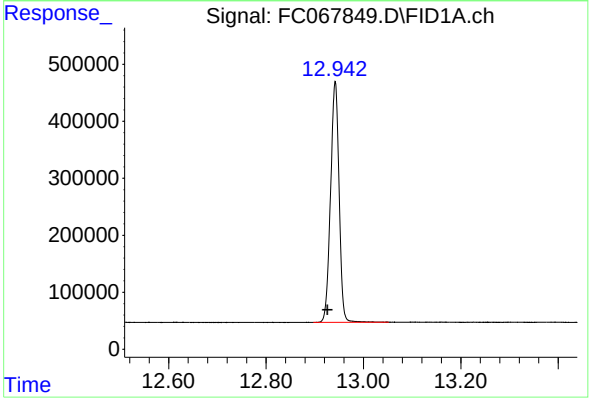




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB165188BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.942 min
Delta R.T.: 0.016 min
Response: 5125398
Conc: 35.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067849.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 10:55
Sample : PB165188BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	12.942	12.897	13.052	BB	422636	5125398	100.00%	100.000%

Sum of corrected areas: 5125398

Aliphatic EPH 111424.M Fri Nov 22 23:53:40 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048800.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 10:55
Operator : YP/AJ
Sample : PB165188BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165188BL

Integration File: autoint1.e
Quant Time: Nov 22 23:07:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	11176340	63.481 ug/ml
Spiked Amount 50.000		Recovery = 126.96%	
6) S 2-Flurobiphenyl (SURR)	8.217	6668678	57.903 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 115.81%	
11) S ortho-Terphenyl (SURR)	11.257	11010543	57.246 ug/ml
Spiked Amount 50.000		Recovery = 114.49%	
Target Compounds			

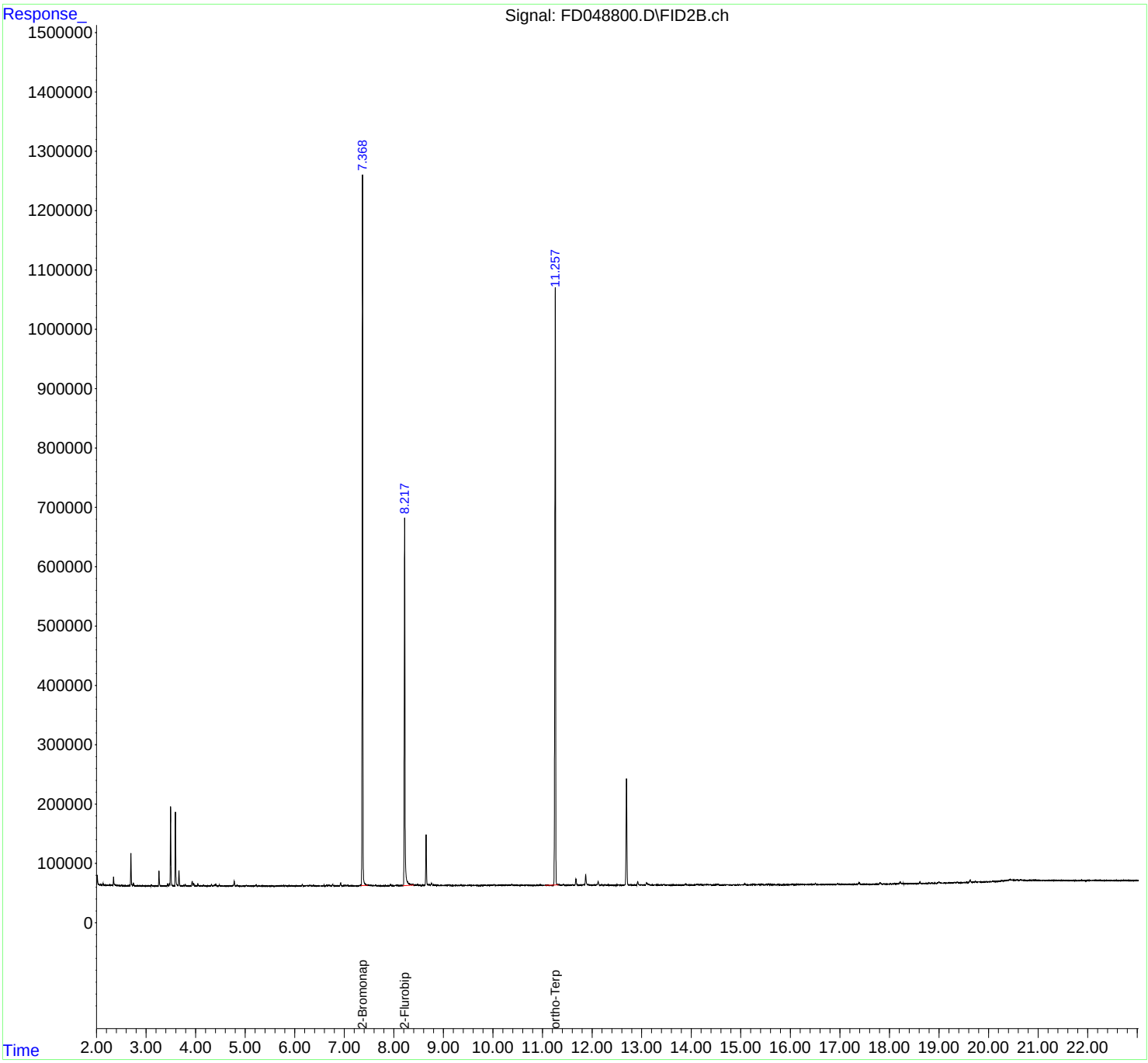
(f)=RT Delta > 1/2 Window (m)=manual int.

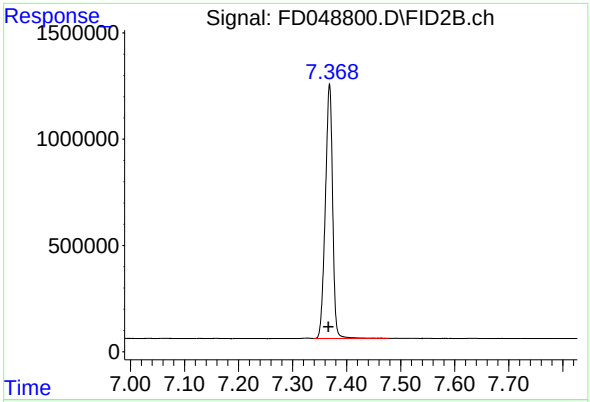
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048800.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 10:55
Operator : YP/AJ
Sample : PB165188BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165188BL

Integration File: autoint1.e
Quant Time: Nov 22 23:07:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

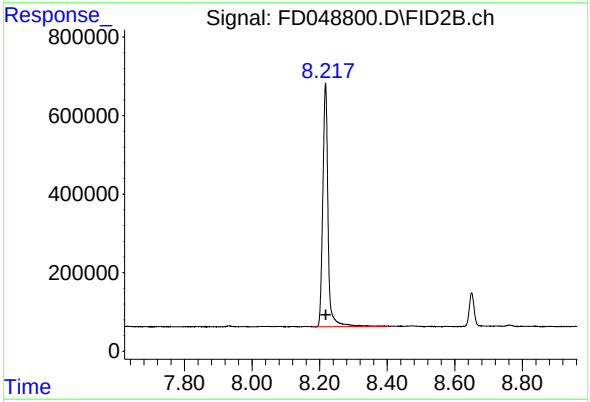




#4 2-Bromonaphthalene (SURR)

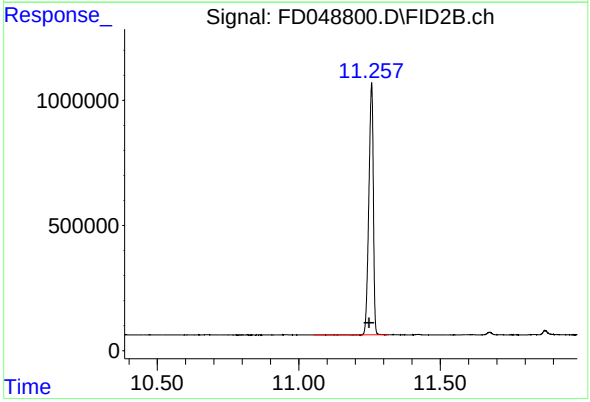
R.T.: 7.368 min
Delta R.T.: 0.002 min
Response: 11176340
Conc: 63.48 ug/ml

Instrument :
FID_D
ClientSampleId :
PB165188BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.001 min
Response: 6668678
Conc: 57.90 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.008 min
Response: 11010543
Conc: 57.25 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048800.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 10:55
Sample : PB165188BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	7.368	7.338	7.478	PB	1192962	11176340	100.00%	38.732%
2	8.217	8.181	8.404	PB	621059	6668678	59.67%	23.111%
3	11.257	11.051	11.318	BB	1010659	11010543	98.52%	38.157%
			Sum of corrected areas:			28855561		

Aromatic EPH 111424.M Sat Nov 23 00:11:57 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067841.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:53
Operator : YP/AJ
Sample : PB165151BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165151BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File: autoint1.e
Quant Time: Nov 22 00:24:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.942	5017940	34.568 ug/ml
Spiked Amount	50.000		Recovery =	69.14%
	Target Compounds			
1) T	n-Nonane (C9)	3.287	3553098	21.783 ug/ml
2) T	n-Decane (C10)	4.350	4550511	27.440 ug/ml
4) T	n-Dodecane (C12)	6.364	5502131	32.668 ug/ml
6) T	n-Tetradecane (C14)	8.155	5973400	35.668 ug/ml
7) T	n-Hexadecane (C16)	9.754	6280293	36.240 ug/ml
8) T	n-Octadecane (C18)	11.193	6636498	37.720 ug/ml
10) T	n-Eicosane (C20)	12.502	7051543	41.877 ug/ml
11) T	n-Heneicosane (C21)	13.112	6804928	41.358 ug/ml
13) T	n-Docosane (C22)	13.697	6724464	41.292 ug/ml
14) T	n-Tetracosane (C24)	14.798	6459456	40.275 ug/mlm
15) T	n-Hexacosane (C26)	15.817	6252970	40.378 ug/ml
16) T	n-Octacosane (C28)	16.765	6076862	40.238 ug/ml
17) T	n-Tricontane (C30)	17.651	6033430	39.406 ug/ml
18) T	n-Dotriacontane (C32)	18.481	5806977	39.318 ug/ml
19) T	n-Tetratriacontane (C34)	19.264	5602279	44.417 ug/ml
20) T	n-Hexatriacontane (C36)	20.003	5366761	51.314 ug/ml
21) T	n-Octatriacontane (C38)	20.726	5246425	53.708 ug/ml
22) T	n-Tetracontane (C40)	21.614	5140177	52.738 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

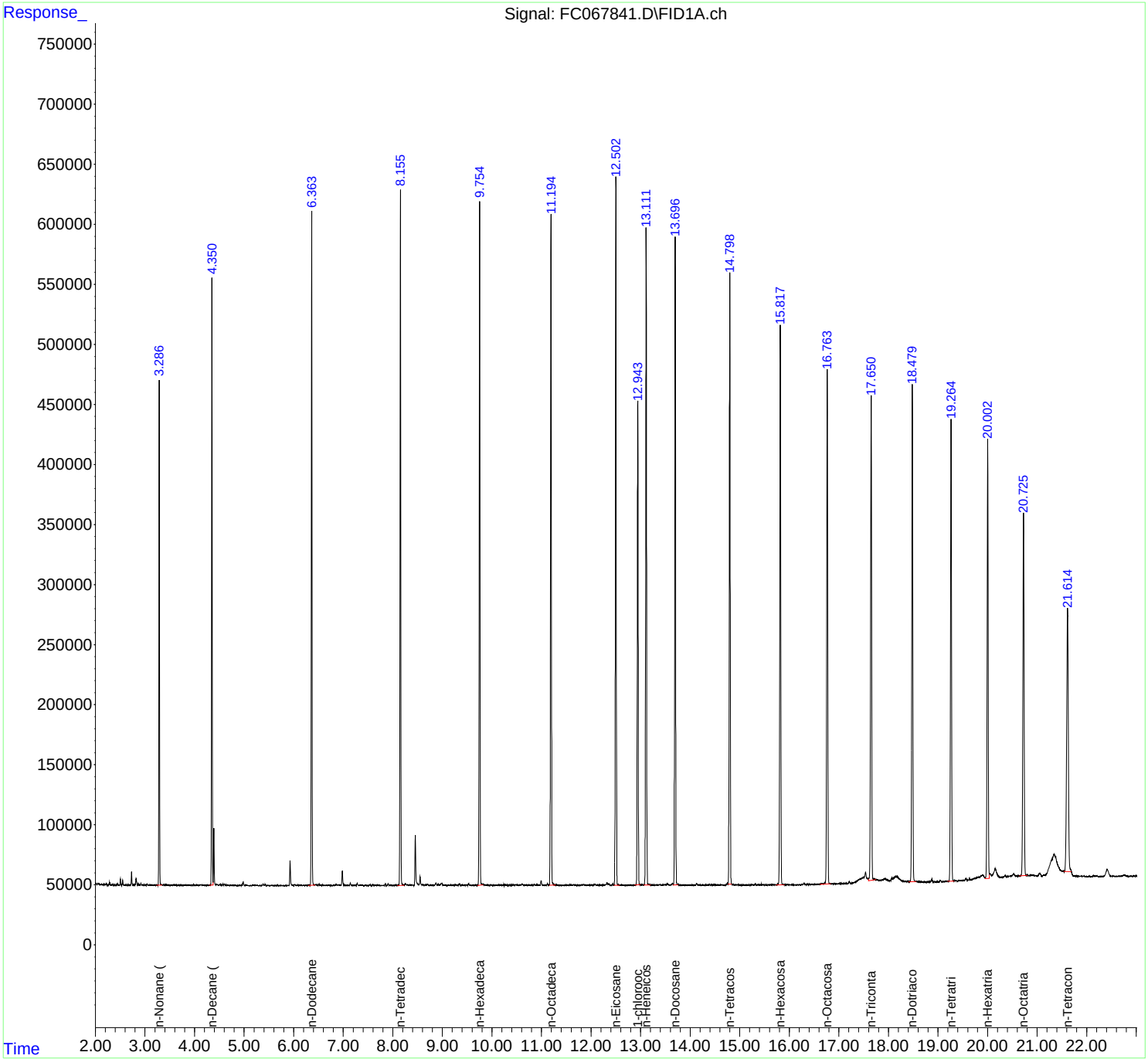
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067841.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:53
Operator : YP/AJ
Sample : PB165151BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 00:24:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB165151BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024



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Instrument :
FID_C
ClientSampleId :
PB165151BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11212
Data File : FC067841.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 11:53
Sample : PB165151BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.287	3.235	3.349	BB	419741	3553098	50.39%	3.215%
2	4.350	4.295	4.373	BV	505064	4550511	64.53%	4.117%
3	6.364	6.297	6.432	BV	560709	5502131	78.03%	4.978%
4	8.155	8.092	8.227	BV	578240	5973400	84.71%	5.405%
5	9.754	9.705	9.829	BB	566802	6280293	89.06%	5.683%
6	11.193	11.152	11.289	BB	559735	6636498	94.11%	6.005%
7	12.502	12.460	12.574	PB	591048	7051543	100.00%	6.380%
8	12.942	12.884	12.999	BB	402573	5017940	71.16%	4.540%
9	13.112	13.070	13.199	BB	545770	6804928	96.50%	6.157%
10	13.697	13.659	13.762	VB	539790	6724464	95.36%	6.084%
11	14.798	14.705	14.870	BB	508107	6509842	92.32%	5.890%
12	15.817	15.732	15.902	BB	463234	6252970	88.68%	5.658%
13	16.765	16.617	16.842	BB	424661	6076862	86.18%	5.498%
14	17.651	17.597	17.744	VB	401757	6033430	85.56%	5.459%
15	18.481	18.404	18.565	BB	409593	5806977	82.35%	5.254%
16	19.264	19.189	19.325	BB	381089	5602279	79.45%	5.069%
17	20.003	19.952	20.039	VV	365070	5366761	76.11%	4.856%
18	20.726	20.640	20.809	BB	300097	5246425	74.40%	4.747%
19	21.614	21.542	21.777	VB	220857	5528989	78.41%	5.003%
			Sum of corrected areas:			110519340		

Aliphatic EPH 111424.M Fri Nov 22 01:19:14 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048792.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:53
Operator : YP/AJ
Sample : PB165151BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165151BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Integration File: autoint1.e
Quant Time: Nov 22 00:50:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	9475305	53.819 ug/ml
Spiked Amount	50.000		Recovery =	107.64%
6) S	2-Flurobiphenyl (SURR)	8.217	5662551	49.167 ug/mlm
Spiked Amount	50.000 Range	0 - 131	Recovery =	98.33%
11) S	ortho-Terphenyl (SURR)	11.255	8905805	46.303 ug/ml
Spiked Amount	50.000		Recovery =	92.61%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	7850322	41.655 ug/ml
2) T	Naphthalene (C11.7)	5.707	9430412	48.219 ug/ml
3) T	2-Methylnaphthalene (...	6.754	9255569	48.432 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	10627295	54.801 ug/ml
7) T	Acenaphthene (C15.5)	8.317	11029723	57.343 ug/ml
8) T	Flouorene (C16.55)	9.096	10871525	56.666 ug/ml
9) T	Phenanthrene (C19.36)	10.485	10651439	58.108 ug/mlm
10) T	Anthracene (C19.43)	10.561	10711321	57.197 ug/ml
12) T	Fluoranthene (C21.85)	12.291	10678652	58.314 ug/mlm
13) T	Pyrene (C20.8)	12.584	10645226	58.881 ug/ml
14) T	Benzo[a]anthracene (C...	14.455	10042404	61.047 ug/ml
15) T	Chrysene (C27.41)	14.498	9879334	56.449 ug/ml
16) T	benzo[b]fluoranthene ...	16.003	9600114	61.101 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.039	9465142	57.998 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.380	9059847	60.765 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.748	8925743	72.256 ug/ml
20) T	Dibenz[a,h]anthracene...	17.785	8426796	53.738 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	8570276	60.064 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

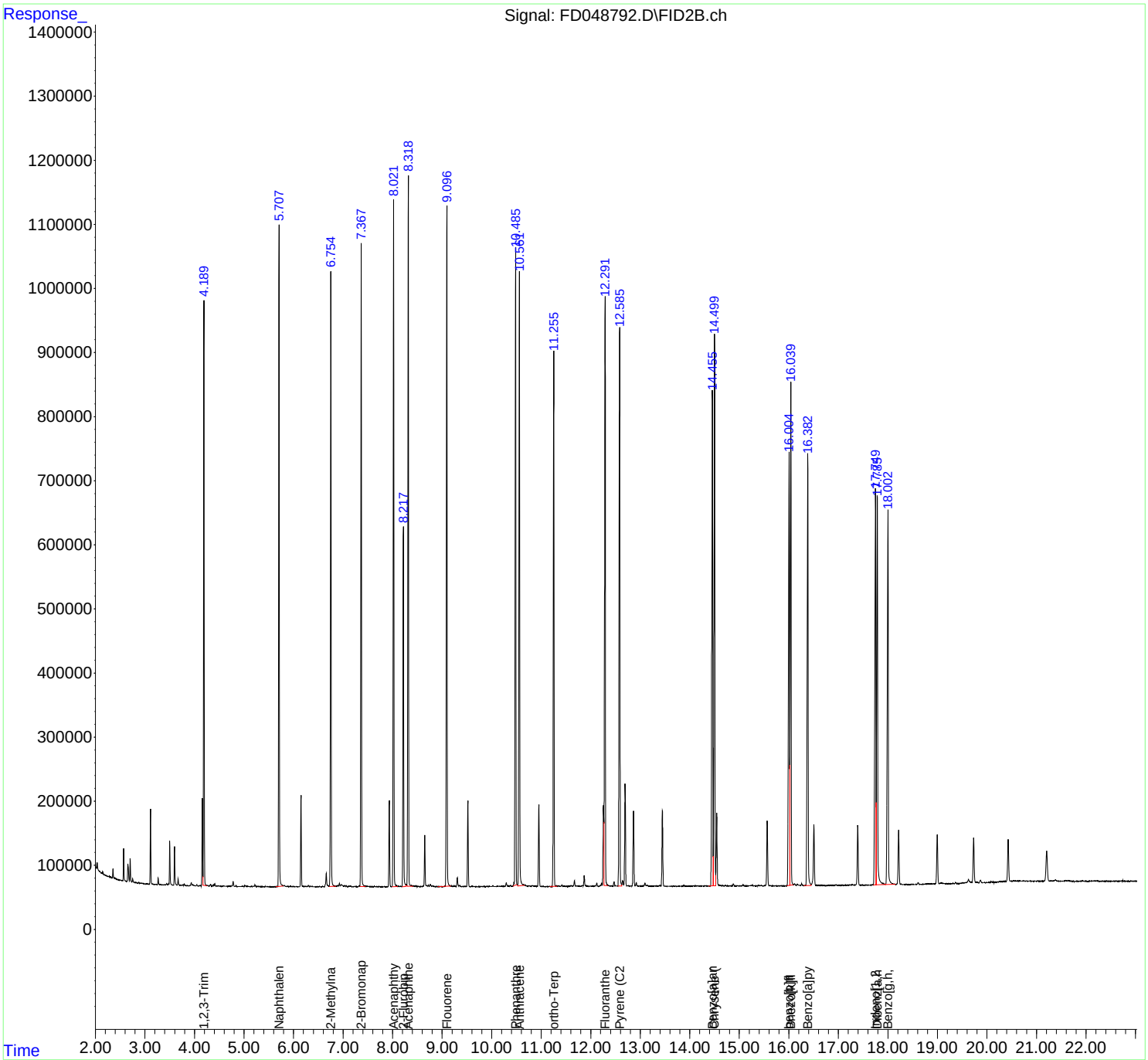
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048792.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:53
Operator : YP/AJ
Sample : PB165151BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 00:50:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB165151BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



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Instrument :
FID_D
ClientSampleId :
PB165151BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11212
Data File : FD048792.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 11:53
Sample : PB165151BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.190	4.171	4.252	VV	909231	7850322	64.55%	3.899%
2	5.707	5.641	5.796	BV	1038584	9430412	77.54%	4.684%
3	6.754	6.717	6.858	VB	964469	9255569	76.10%	4.597%
4	7.367	7.337	7.455	VB	1011820	9475305	77.91%	4.706%
5	8.021	7.991	8.107	BV	1073035	10627295	87.38%	5.278%
6	8.217	8.151	8.288	BV	561922	5672029	46.64%	2.817%
7	8.317	8.288	8.408	VB	1114850	11029723	90.69%	5.478%
8	9.096	8.908	9.178	BB	1038499	10871525	89.39%	5.400%
9	10.485	10.408	10.524	PV	992921	10735536	88.27%	5.332%
10	10.561	10.524	10.665	VV	964578	10711321	88.07%	5.320%
11	11.255	11.168	11.325	BV	835076	8905805	73.23%	4.423%
12	12.291	12.231	12.411	VB	923587	12161932	100.00%	6.040%
13	12.584	12.545	12.624	BV	871929	10645226	87.53%	5.287%
14	14.455	14.378	14.473	BV	771944	10042404	82.57%	4.988%
15	14.498	14.473	14.522	VV	853063	9879334	81.23%	4.907%
16	16.003	15.961	16.018	BV	683863	9600114	78.94%	4.768%
17	16.039	16.018	16.097	VV	770202	9465142	77.83%	4.701%
18	16.380	16.301	16.451	BV	676450	9059847	74.49%	4.500%
19	17.748	17.701	17.763	BV	608148	8925743	73.39%	4.433%
20	17.785	17.763	17.951	VV	605880	8426796	69.29%	4.185%
21	18.000	17.951	18.158	VV	584669	8570276	70.47%	4.257%

Sum of corrected areas: 201341656

Aromatic EPH 111424.M Fri Nov 22 01:40:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067850.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 11:32
Operator : YP/AJ
Sample : PB165188BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 22 22:21:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB165188BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.943	5112489	35.219 ug/ml
Spiked Amount 50.000		Recovery =	70.44%
Target Compounds			
1) T n-Nonane (C9)	3.288	3763877	23.075 ug/ml
2) T n-Decane (C10)	4.350	4828464	29.117 ug/ml
4) T n-Dodecane (C12)	6.364	5857295	34.776 ug/ml
6) T n-Tetradecane (C14)	8.156	6349870	37.916 ug/ml
7) T n-Hexadecane (C16)	9.754	6645242	38.346 ug/ml
8) T n-Octadecane (C18)	11.193	6923639	39.352 ug/ml
10) T n-Eicosane (C20)	12.501	7246643	43.036 ug/ml
11) T n-Heneicosane (C21)	13.112	6936142	42.155 ug/ml
13) T n-Docosane (C22)	13.697	6833014	41.958 ug/ml
14) T n-Tetracosane (C24)	14.798	6562356	40.917 ug/mlm
15) T n-Hexacosane (C26)	15.817	6292472	40.633 ug/mlm
16) T n-Octacosane (C28)	16.766	6119715	40.522 ug/ml
17) T n-Tricontane (C30)	17.652	6015860	39.291 ug/ml
18) T n-Dotriacontane (C32)	18.482	5827037	39.454 ug/ml
19) T n-Tetratriacontane (C34)	19.265	5678127	45.018 ug/ml
20) T n-Hexatriacontane (C36)	20.003	5380547	51.446 ug/ml
21) T n-Octatriacontane (C38)	20.727	5302072	54.278 ug/ml
22) T n-Tetracontane (C40)	21.617	5207527	53.429 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

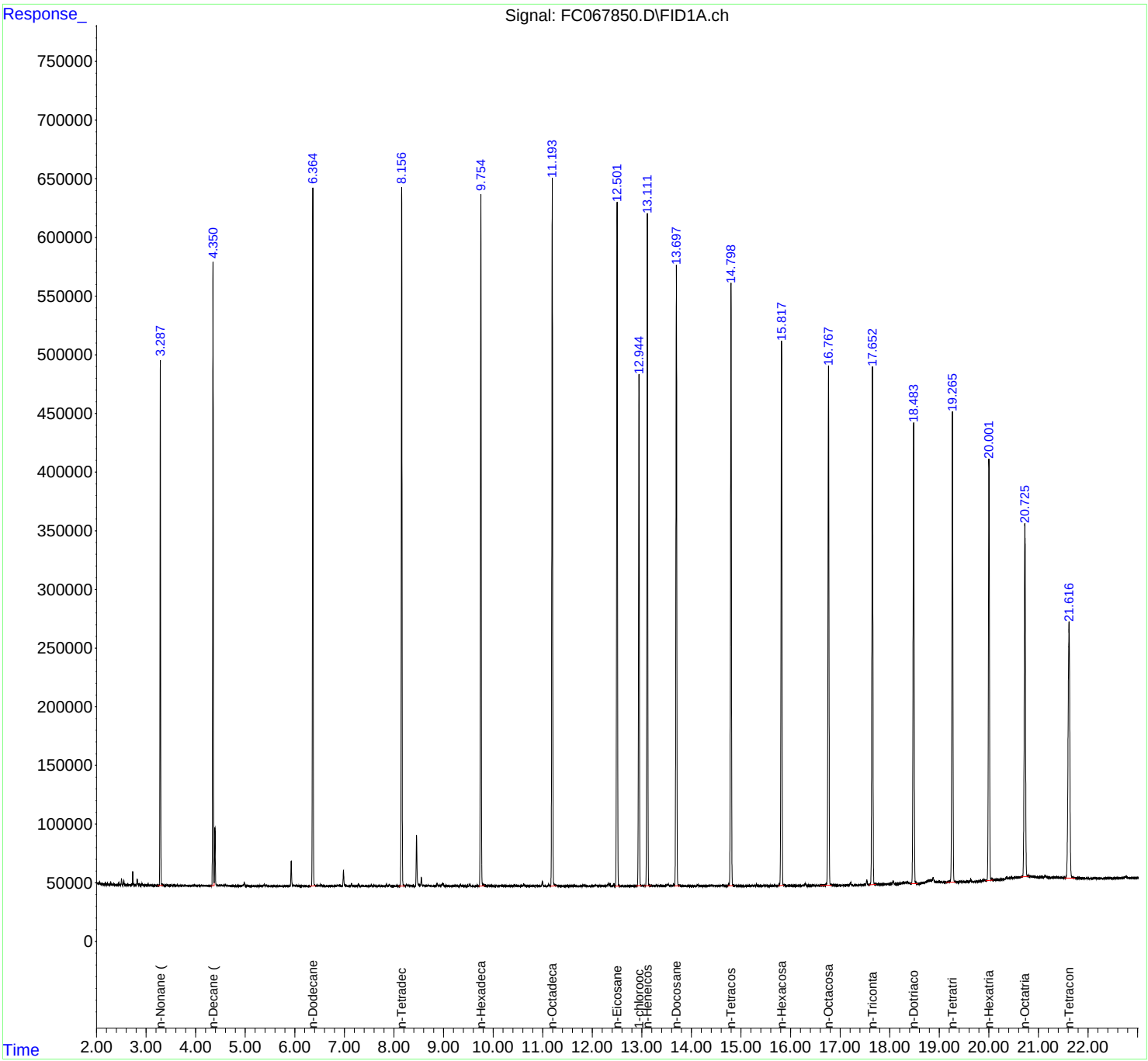
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067850.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 11:32
Operator : YP/AJ
Sample : PB165188BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 22 22:21:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB165188BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



10

Instrument :
FID_C
ClientSampleId :
PB165188BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11222
Data File : FC067850.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 11:32
Sample : PB165188BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.288	3.235	3.344	BB	446563	3763877	51.94%	3.333%
2	4.350	4.295	4.373	BV	530919	4828464	66.63%	4.276%
3	6.364	6.300	6.429	BV	590257	5857295	80.83%	5.187%
4	8.156	8.094	8.225	BV	596069	6349870	87.62%	5.623%
5	9.754	9.707	9.835	BB	586083	6645242	91.70%	5.885%
6	11.193	11.152	11.275	BB	603903	6923639	95.54%	6.132%
7	12.501	12.457	12.567	PB	583494	7246643	100.00%	6.418%
8	12.943	12.874	12.999	BB	438544	5112489	70.55%	4.528%
9	13.112	13.039	13.189	BB	570299	6936142	95.72%	6.143%
10	13.697	13.658	13.770	VB	527448	6833014	94.29%	6.051%
11	14.798	14.704	14.874	BB	512171	6579576	90.79%	5.827%
12	15.818	15.722	15.894	BB	462220	6311220	87.09%	5.589%
13	16.766	16.600	16.829	BB	443435	6119715	84.45%	5.420%
14	17.652	17.585	17.719	BB	439532	6015860	83.02%	5.328%
15	18.482	18.425	18.562	BB	392027	5827037	80.41%	5.160%
16	19.265	19.134	19.329	BB	399637	5678127	78.36%	5.029%
17	20.003	19.939	20.094	BB	356755	5380547	74.25%	4.765%
18	20.727	20.637	20.810	BB	298676	5302072	73.17%	4.695%
19	21.617	21.522	21.745	BB	216522	5207527	71.86%	4.612%
			Sum of corrected areas:			112918354		

Aliphatic EPH 111424.M Fri Nov 22 23:54:57 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048801.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 11:32
Operator : YP/AJ
Sample : PB165188BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165188BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File: autoint1.e
Quant Time: Nov 22 23:07:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.368	9688397	55.029 ug/ml
Spiked Amount	50.000		Recovery =	110.06%
6) S	2-Flurobiphenyl (SURR)	8.218	5811070	50.456 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.91%
11) S	ortho-Terphenyl (SURR)	11.255	9064758	47.130 ug/ml
Spiked Amount	50.000		Recovery =	94.26%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	8022592	42.569 ug/ml
2) T	Naphthalene (C11.7)	5.707	9642256	49.302 ug/ml
3) T	2-Methylnaphthalene (...	6.754	9471968	49.564 ug/ml
5) T	Acenaphthylene (C15.06)	8.022	10883130	56.120 ug/ml
7) T	Acenaphthene (C15.5)	8.318	11279322	58.641 ug/ml
8) T	Flouorene (C16.55)	9.096	11187059	58.311 ug/ml
9) T	Phenanthrene (C19.36)	10.485	10942980	59.699 ug/ml
10) T	Anthracene (C19.43)	10.561	10960786	58.529 ug/ml
12) T	Fluoranthene (C21.85)	12.291	11008533	60.116 ug/mlm
13) T	Pyrene (C20.8)	12.584	10787764	59.669 ug/ml
14) T	Benzo[a]anthracene (C...	14.455	10160147	61.763 ug/ml
15) T	Chrysene (C27.41)	14.499	9987909	57.069 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	9690316	61.675 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.041	9778985	59.922 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.381	9142325	61.318 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.750	9033775	73.130 ug/ml
20) T	Dibenz[a,h]anthracene...	17.786	8474013	54.039 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.003	8618727	60.403 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

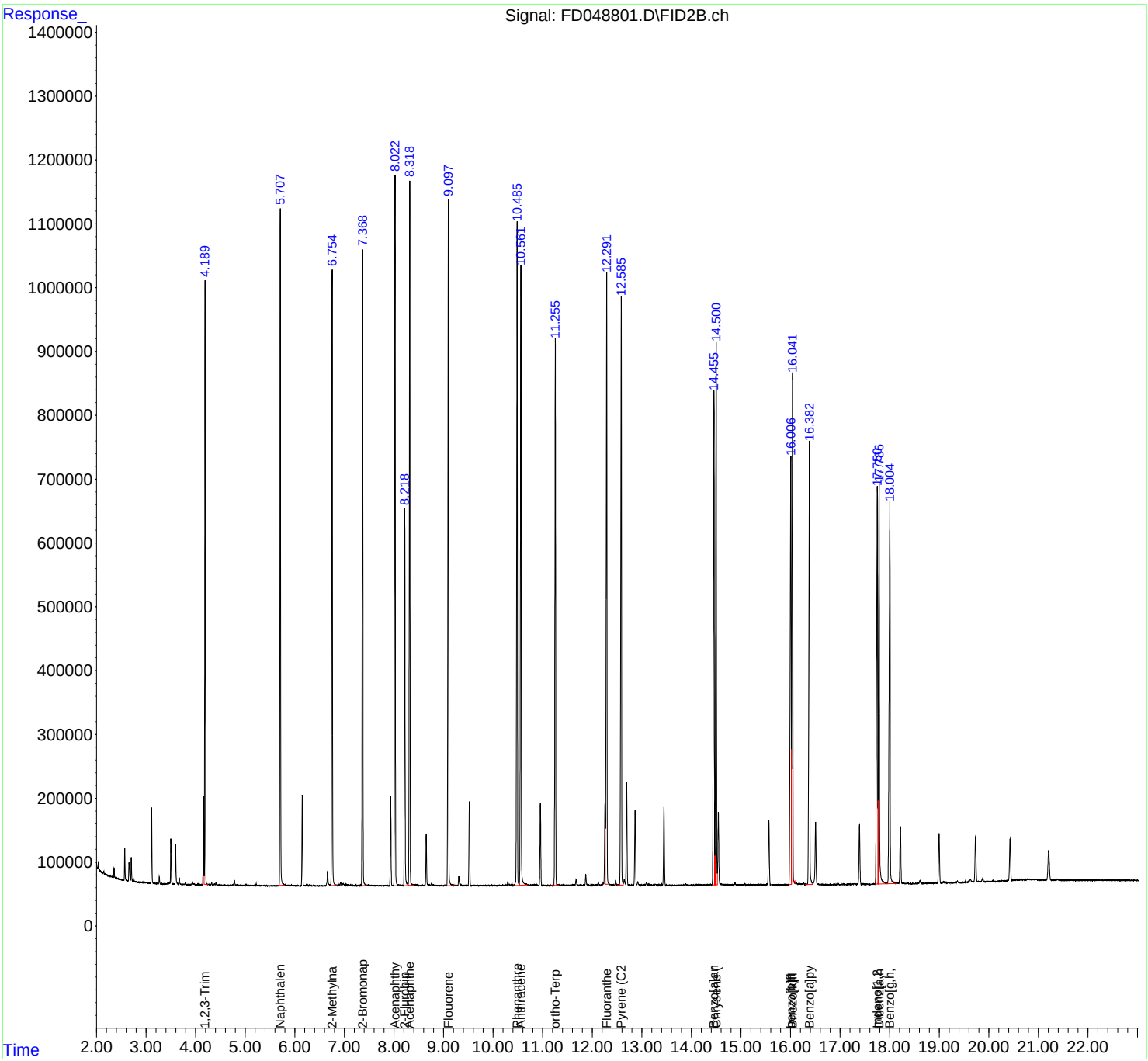
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048801.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 11:32
Operator : YP/AJ
Sample : PB165188BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 23:07:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB165188BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



10

Instrument :
FID_D
ClientSampleId :
PB165188BS

rteres

Area Percent

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Da
Data File : FD048801.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 11:32
Sample : PB165188BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.190	4.171	4.251	VV	942458	8022592	64.99%	3.918%
2	5.707	5.635	5.801	BV	1064560	9642256	78.12%	4.709%
3	6.754	6.718	6.855	VV	965223	9471968	76.74%	4.626%
4	7.368	7.341	7.455	VV	997092	9688397	78.49%	4.732%
5	8.022	7.991	8.145	BV	1095423	10883130	88.17%	5.315%
6	8.218	8.184	8.284	PV	590098	5811070	47.08%	2.838%
7	8.318	8.284	8.408	VB	1108208	11279322	91.38%	5.509%
8	9.096	9.001	9.231	BB	1092877	11187059	90.63%	5.464%
9	10.485	10.421	10.528	BV	1032302	10942980	88.65%	5.345%
10	10.561	10.528	10.711	VB	975595	10960786	88.80%	5.353%
11	11.255	11.168	11.325	BV	854599	9064758	73.44%	4.427%
12	12.291	12.231	12.421	VB	960805	12343431	100.00%	6.029%
13	12.584	12.505	12.625	VV	918950	10787764	87.40%	5.269%
14	14.455	14.411	14.474	PV	768493	10160147	82.31%	4.962%
15	14.499	14.474	14.523	VV	835844	9987909	80.92%	4.878%
16	16.005	15.961	16.020	BV	667222	9690316	78.51%	4.733%
17	16.040	16.020	16.097	VV	808593	9554482	77.41%	4.666%
18	16.381	16.294	16.454	BV	692646	9142325	74.07%	4.465%
19	17.750	17.701	17.765	BV	616362	9033775	73.19%	4.412%
20	17.786	17.765	17.958	VV	614082	8474013	68.65%	4.139%
21	18.003	17.958	18.158	VB	612391	8618727	69.82%	4.209%

Sum of corrected areas: 204747208

Aromatic EPH 111424.M Sat Nov 23 00:13:43 2024

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067842.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 12:31
Operator : YP/AJ
Sample : PB165151BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165151BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File: autoint1.e
Quant Time: Nov 22 00:24:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
12) S	1-chlorooctadecane (S...	12.942	5218311	35.948	ug/ml
Spiked Amount	50.000		Recovery =	71.90%	
	Target Compounds				
1) T	n-Nonane (C9)	3.287	3632051	22.267	ug/ml
2) T	n-Decane (C10)	4.350	4649561	28.038	ug/ml
4) T	n-Dodecane (C12)	6.364	5619591	33.365	ug/ml
6) T	n-Tetradecane (C14)	8.155	6078205	36.294	ug/ml
7) T	n-Hexadecane (C16)	9.754	6351994	36.654	ug/ml
8) T	n-Octadecane (C18)	11.193	6656132	37.832	ug/ml
10) T	n-Eicosane (C20)	12.501	7024272	41.715	ug/ml
11) T	n-Heneicosane (C21)	13.112	6746939	41.005	ug/ml
13) T	n-Docosane (C22)	13.697	6673330	40.978	ug/ml
14) T	n-Tetracosane (C24)	14.797	6414361	39.994	ug/mlm
15) T	n-Hexacosane (C26)	15.815	6140507	39.652	ug/mlm
16) T	n-Octacosane (C28)	16.765	6019776	39.860	ug/ml
17) T	n-Tricontane (C30)	17.650	5918891	38.658	ug/ml
18) T	n-Dotriacontane (C32)	18.480	5765435	39.037	ug/ml
19) T	n-Tetratriacontane (C34)	19.265	5562918	44.105	ug/ml
20) T	n-Hexatriacontane (C36)	20.001	5325280	50.917	ug/mlm
21) T	n-Octatriacontane (C38)	20.725	5223971	53.478	ug/ml
22) T	n-Tetracontane (C40)	21.614	5480116	56.226	ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

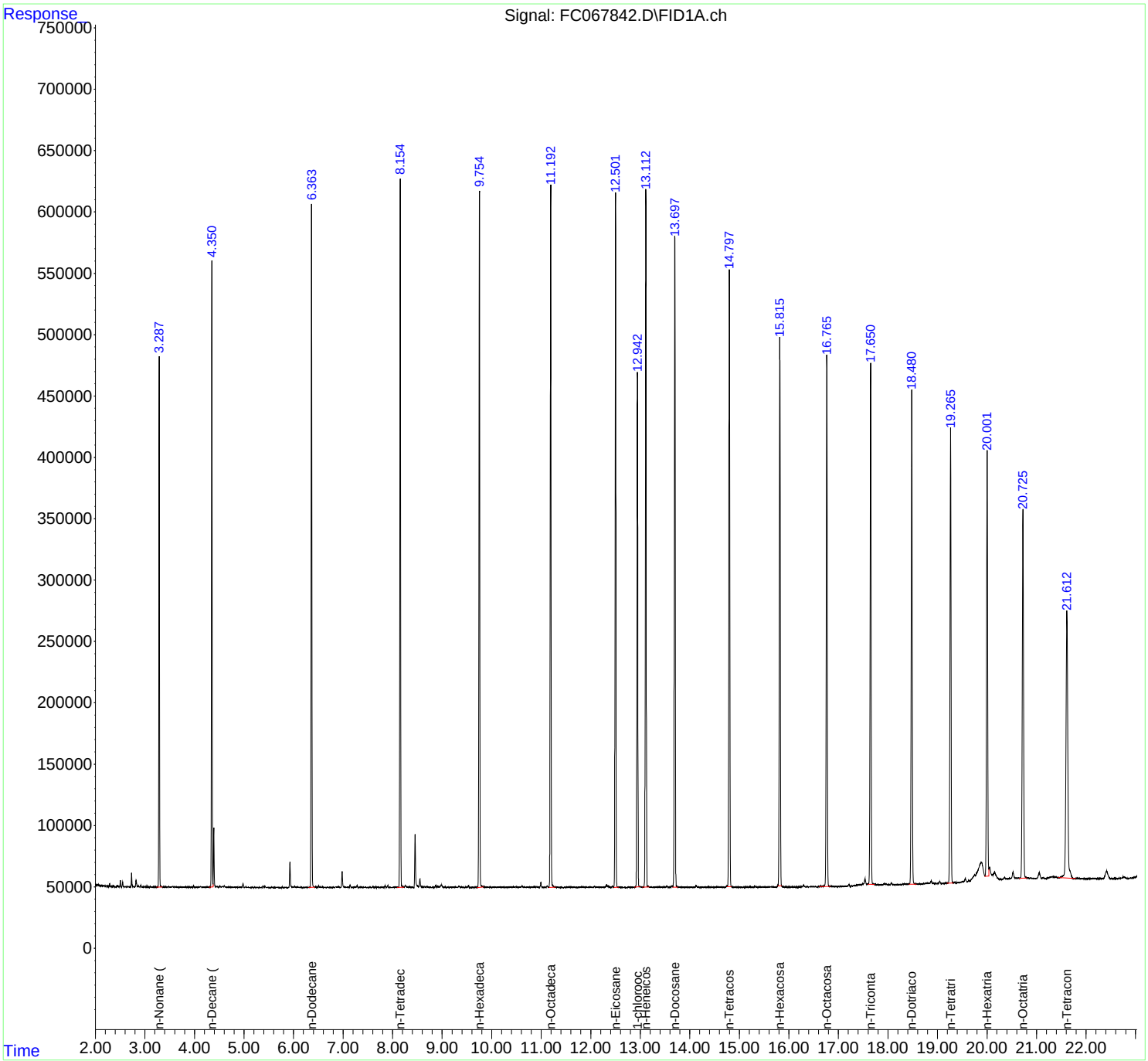
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112124AL\
Data File : FC067842.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 12:31
Operator : YP/AJ
Sample : PB165151BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165151BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File: autoint1.e
Quant Time: Nov 22 00:24:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



10

Instrument :
FID_C
ClientSampleId :
PB165151BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11212
Data File : FC067842.D
Signal(s) : FID1A.ch
Acq On : 21 Nov 2024 12:31
Sample : PB165151BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.287	3.234	3.350	BB	431676	3632051	51.71%	3.279%
2	4.350	4.297	4.373	BV	510708	4649561	66.19%	4.198%
3	6.364	6.304	6.430	BV	558423	5619591	80.00%	5.074%
4	8.155	8.095	8.232	BB	574918	6078205	86.53%	5.488%
5	9.754	9.705	9.832	BB	567594	6351994	90.43%	5.735%
6	11.193	11.152	11.292	BB	570240	6656132	94.76%	6.010%
7	12.501	12.462	12.565	PB	565541	7024272	100.00%	6.342%
8	12.942	12.879	12.990	BB	419464	5218311	74.29%	4.712%
9	13.112	13.040	13.184	BB	568461	6746939	96.05%	6.092%
10	13.697	13.657	13.760	VB	530574	6673330	95.00%	6.025%
11	14.797	14.697	14.877	BB	501543	6452058	91.85%	5.825%
12	15.816	15.720	15.899	BB	442335	6196690	88.22%	5.595%
13	16.765	16.607	16.839	BB	433286	6019776	85.70%	5.435%
14	17.650	17.592	17.734	BB	422925	5918891	84.26%	5.344%
15	18.480	18.419	18.569	BB	400564	5765435	82.08%	5.206%
16	19.265	19.189	19.322	BB	371845	5562918	79.20%	5.023%
17	20.003	19.958	20.037	VV	348648	5486161	78.10%	4.953%
18	20.725	20.650	20.814	BB	300381	5223971	74.37%	4.717%
19	21.614	21.440	21.792	BB	214501	5480116	78.02%	4.948%
			Sum of corrected areas:			110756401		

Aliphatic EPH 111424.M Fri Nov 22 01:23:07 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048793.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 12:31
Operator : YP/AJ
Sample : PB165151BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165151BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Integration File: autoint1.e
Quant Time: Nov 22 00:50:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	9369413	53.218 ug/ml
Spiked Amount	50.000		Recovery =	106.44%
6) S	2-Flurobiphenyl (SURR)	8.218	5631657	48.899 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	97.80%
11) S	ortho-Terphenyl (SURR)	11.255	8834245	45.931 ug/ml
Spiked Amount	50.000		Recovery =	91.86%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	7735073	41.043 ug/ml
2) T	Naphthalene (C11.7)	5.707	9316804	47.638 ug/ml
3) T	2-Methylnaphthalene (...	6.754	9143869	47.847 ug/ml
5) T	Acenaphthylene (C15.06)	8.022	10507147	54.181 ug/ml
7) T	Acenaphthene (C15.5)	8.318	10924353	56.796 ug/ml
8) T	Flouorene (C16.55)	9.096	10854323	56.576 ug/ml
9) T	Phenanthrene (C19.36)	10.484	10647778	58.088 ug/ml
10) T	Anthracene (C19.43)	10.561	10619959	56.709 ug/ml
12) T	Fluoranthene (C21.85)	12.292	10654764	58.184 ug/mlm
13) T	Pyrene (C20.8)	12.584	10603262	58.648 ug/ml
14) T	Benzo[a]anthracene (C...	14.455	10034149	60.997 ug/ml
15) T	Chrysene (C27.41)	14.499	9884467	56.478 ug/ml
16) T	benzo[b]fluoranthene ...	16.004	9604808	61.131 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.040	9491041	58.157 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.380	9081847	60.912 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.748	8905682	72.093 ug/ml
20) T	Dibenz[a,h]anthracene...	17.784	8405991	53.605 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	8537071	59.831 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

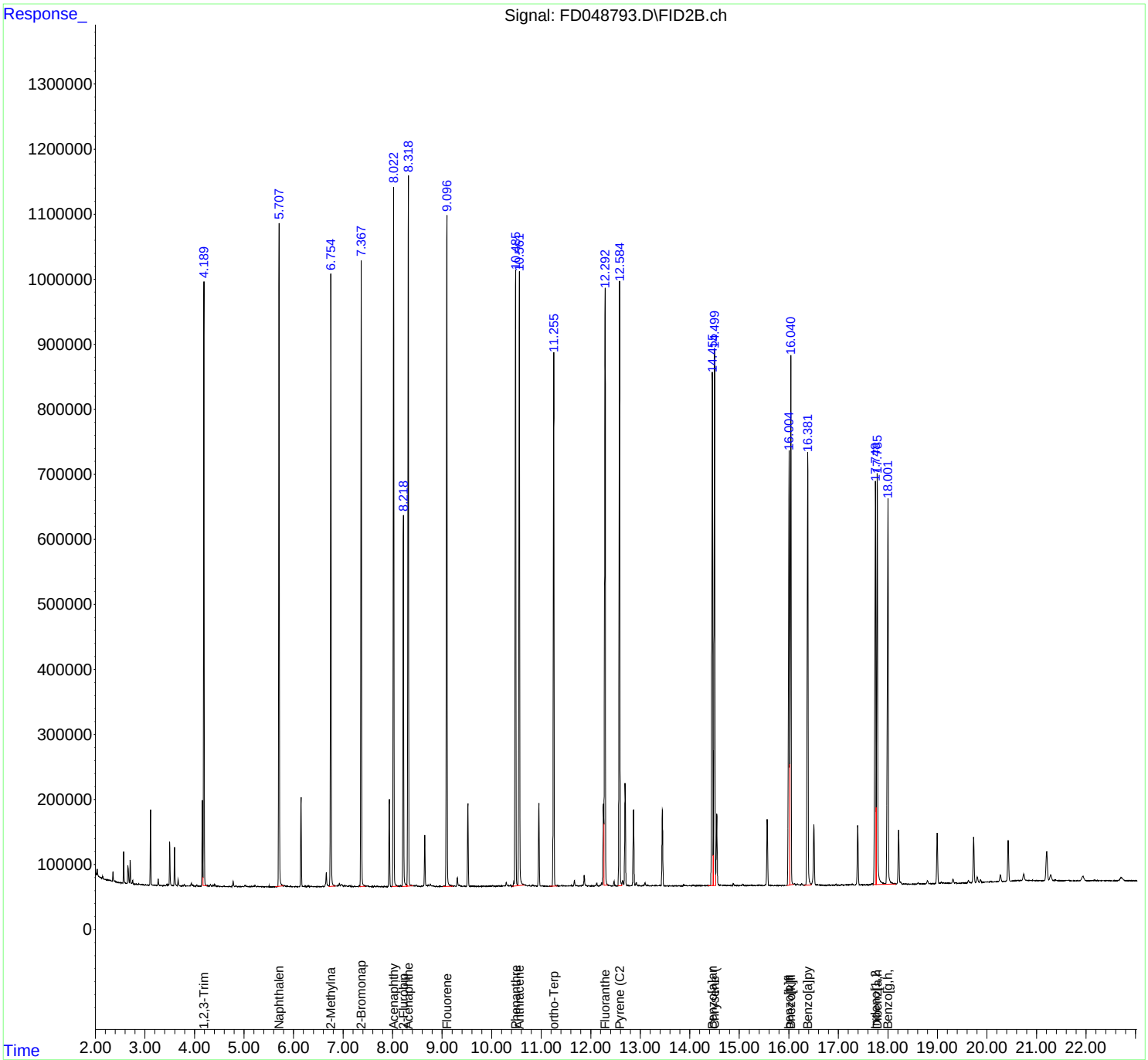
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112124AR\
Data File : FD048793.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 12:31
Operator : YP/AJ
Sample : PB165151BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 00:50:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB165151BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



10

Instrument :
FID_D
ClientSampleId :
PB165151BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11212
Data File : FD048793.D
Signal(s) : FID2B.ch
Acq On : 21 Nov 2024 12:31
Sample : PB165151BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.190	4.171	4.255	VB	919657	7735073	63.88%	3.863%
2	5.707	5.631	5.797	BV	1019156	9316804	76.94%	4.653%
3	6.754	6.718	6.851	VB	945516	9143869	75.51%	4.566%
4	7.367	7.338	7.458	VB	965918	9369413	77.37%	4.679%
5	8.022	7.991	8.108	BV	1062552	10507147	86.77%	5.247%
6	8.218	8.191	8.288	PV	570173	5631657	46.51%	2.812%
7	8.318	8.288	8.408	VB	1092271	10924353	90.21%	5.456%
8	9.096	9.015	9.225	BB	1016705	10854323	89.64%	5.421%
9	10.484	10.415	10.528	BV	953627	10647778	87.93%	5.317%
10	10.561	10.528	10.659	VV	951626	10619959	87.70%	5.304%
11	11.255	11.171	11.325	BV	817033	8834245	72.95%	4.412%
12	12.291	12.231	12.415	VB	920881	12109432	100.00%	6.047%
13	12.584	12.548	12.624	BV	937556	10603262	87.56%	5.295%
14	14.455	14.358	14.473	BV	785973	10034149	82.86%	5.011%
15	14.499	14.473	14.523	VV	810958	9884467	81.63%	4.936%
16	16.004	15.961	16.019	BV	667635	9604808	79.32%	4.797%
17	16.040	16.019	16.096	VV	834837	9491041	78.38%	4.740%
18	16.380	16.305	16.451	BV	673125	9081847	75.00%	4.535%
19	17.748	17.701	17.763	BV	619664	8905682	73.54%	4.447%
20	17.784	17.763	17.955	VV	626517	8405991	69.42%	4.198%
21	18.000	17.955	18.165	VV	595581	8537071	70.50%	4.263%
			Sum of corrected areas:			200242372		

Aromatic EPH 111424.M Fri Nov 22 01:44:11 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067851.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:08
Operator : YP/AJ
Sample : PB165188BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165188BSD

Integration File: sample.E
Quant Time: Nov 22 22:21:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.942	5313708	36.606 ug/ml
Spiked Amount	50.000		Recovery =	73.21%
	Target Compounds			
1) T	n-Nonane (C9)	3.288	3773593	23.135 ug/ml
2) T	n-Decane (C10)	4.350	4840843	29.191 ug/ml
4) T	n-Dodecane (C12)	6.364	5857447	34.777 ug/ml
6) T	n-Tetradecane (C14)	8.156	6329211	37.793 ug/ml
7) T	n-Hexadecane (C16)	9.754	6575730	37.945 ug/ml
8) T	n-Octadecane (C18)	11.193	6850272	38.935 ug/ml
10) T	n-Eicosane (C20)	12.502	7176714	42.621 ug/ml
11) T	n-Heneicosane (C21)	13.112	6883455	41.835 ug/ml
13) T	n-Docosane (C22)	13.697	6790238	41.695 ug/ml
14) T	n-Tetracosane (C24)	14.799	6532982	40.734 ug/ml
15) T	n-Hexacosane (C26)	15.818	6289751	40.615 ug/ml
16) T	n-Octacosane (C28)	16.766	6095248	40.360 ug/ml
17) T	n-Tricontane (C30)	17.652	5986954	39.103 ug/ml
18) T	n-Dotriacontane (C32)	18.483	5800988	39.278 ug/ml
19) T	n-Tetratriacontane (C34)	19.265	5608441	44.465 ug/ml
20) T	n-Hexatriacontane (C36)	20.003	5359369	51.243 ug/ml
21) T	n-Octatriacontane (C38)	20.728	5416360	55.448 ug/ml
22) T	n-Tetracontane (C40)	21.616	5200163	53.353 ug/ml

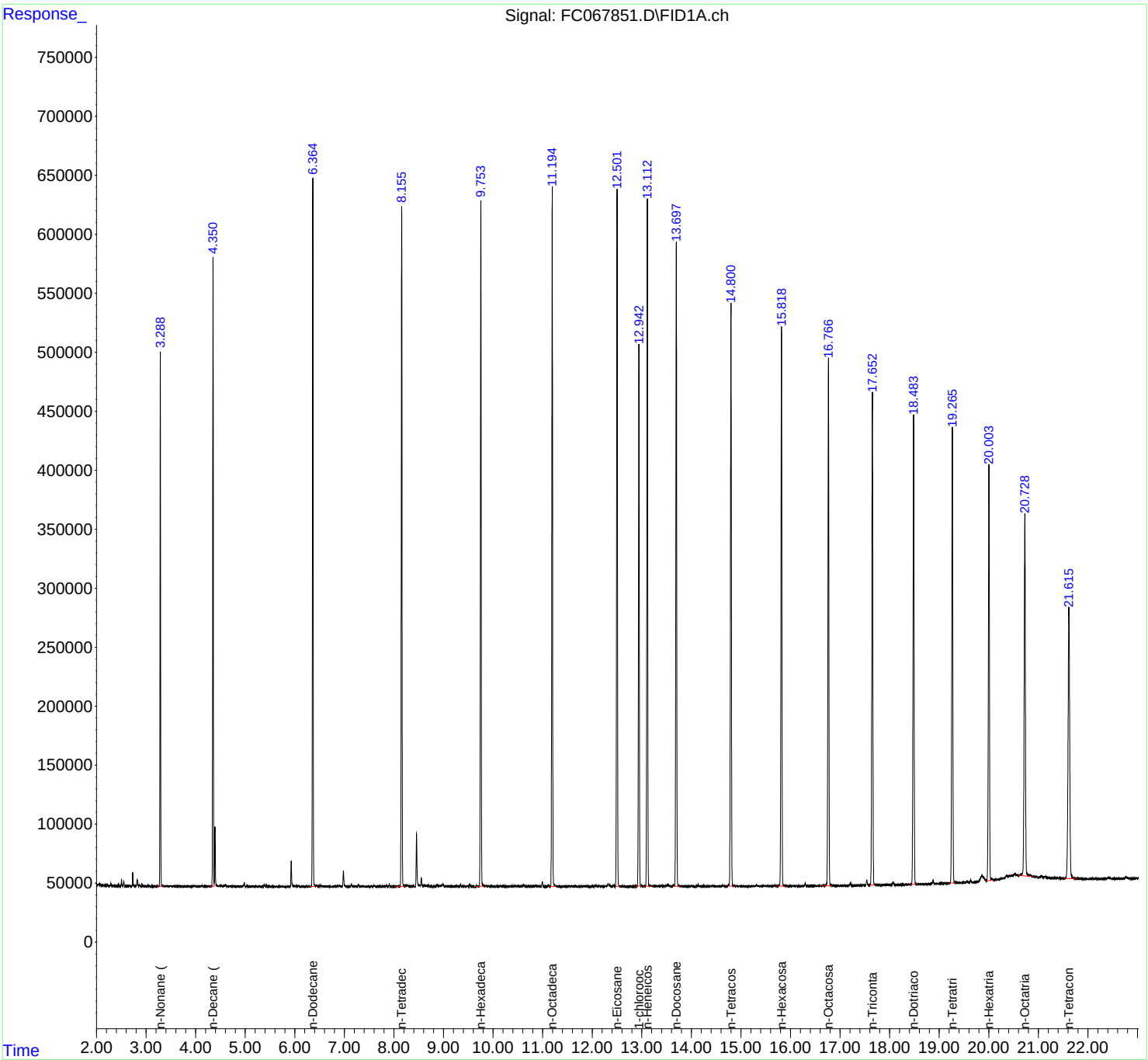
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067851.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:08
Operator : YP/AJ
Sample : PB165188BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165188BSD

Integration File: sample.E
Quant Time: Nov 22 22:21:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067851.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 12:08
Sample : PB165188BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.288	3.235	3.347	BB	455103	3773593	52.58%	3.349%
2	4.350	4.295	4.373	BV	533404	4840843	67.45%	4.296%
3	6.364	6.305	6.432	BV	597658	5857447	81.62%	5.198%
4	8.156	8.015	8.227	BB	577482	6329211	88.19%	5.617%
5	9.754	9.627	9.833	BB	582322	6575730	91.63%	5.836%
6	11.193	11.155	11.287	BB	585056	6850272	95.45%	6.079%
7	12.502	12.459	12.560	PB	589426	7176714	100.00%	6.369%
8	12.942	12.870	12.990	BB	456748	5313708	74.04%	4.716%
9	13.112	13.045	13.192	BB	583893	6883455	95.91%	6.109%
10	13.697	13.658	13.770	VB	544901	6790238	94.61%	6.026%
11	14.799	14.762	14.868	VB	489490	6532982	91.03%	5.798%
12	15.818	15.720	15.895	BB	475162	6289751	87.64%	5.582%
13	16.766	16.612	16.837	BB	441940	6095248	84.93%	5.409%
14	17.652	17.585	17.723	BB	416274	5986954	83.42%	5.313%
15	18.483	18.420	18.547	BB	398093	5800988	80.83%	5.148%
16	19.265	19.188	19.328	BB	387298	5608441	78.15%	4.977%
17	20.003	19.947	20.097	VB	351602	5359369	74.68%	4.756%
18	20.728	20.593	20.892	BB	306797	5416360	75.47%	4.807%
19	21.616	21.515	21.767	BB	229060	5200163	72.46%	4.615%

Sum of corrected areas: 112681466

Aliphatic EPH 111424.M Fri Nov 22 23:56:39 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048802.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:08
Operator : YP/AJ
Sample : PB165188BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165188BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File: autoint1.e
Quant Time: Nov 22 23:08:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.368	9645156	54.784 ug/ml
Spiked Amount	50.000		Recovery =	109.57%
6) S	2-Flurobiphenyl (SURR)	8.218	5788509	50.261 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.52%
11) S	ortho-Terphenyl (SURR)	11.255	9024478	46.920 ug/ml
Spiked Amount	50.000		Recovery =	93.84%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	7985580	42.372 ug/ml
2) T	Naphthalene (C11.7)	5.708	9605703	49.116 ug/ml
3) T	2-Methylnaphthalene (...	6.755	9422685	49.306 ug/ml
5) T	Acenaphthylene (C15.06)	8.022	10812156	55.754 ug/ml
7) T	Acenaphthene (C15.5)	8.318	11220383	58.335 ug/ml
8) T	Flouorene (C16.55)	9.097	11118005	57.951 ug/ml
9) T	Phenanthrene (C19.36)	10.485	10880973	59.361 ug/ml
10) T	Anthracene (C19.43)	10.561	10932557	58.379 ug/ml
12) T	Fluoranthene (C21.85)	12.292	10867937	59.348 ug/mlm
13) T	Pyrene (C20.8)	12.585	10728889	59.343 ug/ml
14) T	Benzo[a]anthracene (C...	14.456	10079979	61.276 ug/ml
15) T	Chrysene (C27.41)	14.500	9904750	56.594 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	9644571	61.384 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.041	10073998	61.729 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.382	9063526	60.789 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.749	8965310	72.576 ug/ml
20) T	Dibenz[a,h]anthracene...	17.787	8440127	53.823 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	8589912	60.201 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

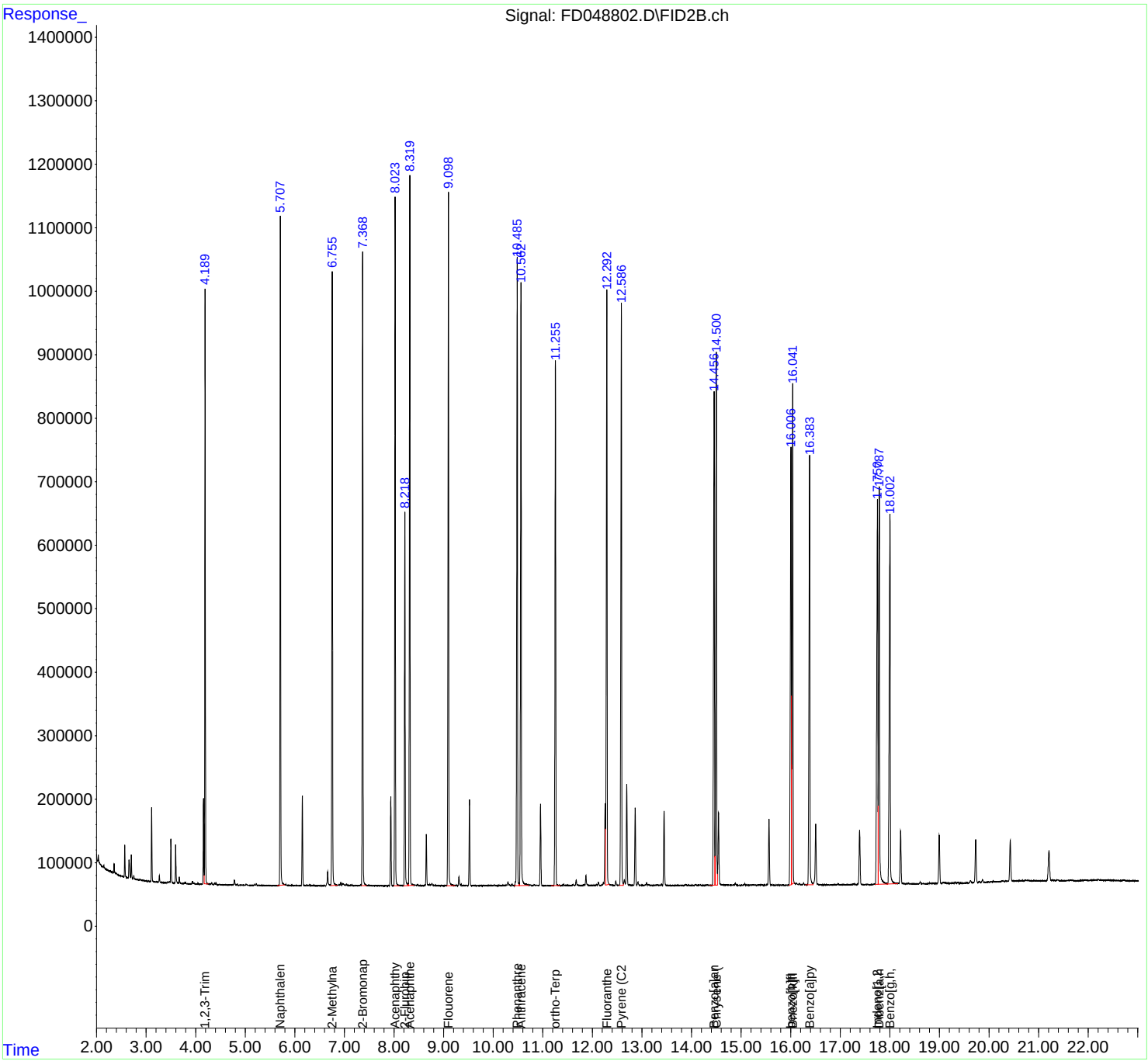
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048802.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:08
Operator : YP/AJ
Sample : PB165188BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165188BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File: autoint1.e
Quant Time: Nov 22 23:08:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



10

Instrument :
FID_D
ClientSampleId :
PB165188BSD

rteres

Area Percent

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Da
Data File : FD048802.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 12:08
Sample : PB165188BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.190	4.171	4.254	VV	936765	7985580	65.20%	3.923%
2	5.708	5.641	5.801	BV	1054081	9605703	78.43%	4.719%
3	6.755	6.721	6.861	VB	964883	9422685	76.93%	4.629%
4	7.368	7.341	7.451	VV	999449	9645156	78.75%	4.738%
5	8.022	7.991	8.104	BV	1068484	10812156	88.28%	5.312%
6	8.218	8.185	8.288	PV	580212	5788509	47.26%	2.844%
7	8.318	8.288	8.404	VV	1100463	11220383	91.61%	5.512%
8	9.097	9.061	9.231	VB	1096248	11118005	90.77%	5.462%
9	10.485	10.421	10.526	BV	980992	10880973	88.84%	5.345%
10	10.561	10.526	10.724	VB	947448	10932557	89.26%	5.371%
11	11.255	11.168	11.358	BB	821243	9024478	73.68%	4.433%
12	12.291	12.231	12.394	VB	925931	12248201	100.00%	6.017%
13	12.585	12.544	12.625	BV	904291	10728889	87.60%	5.271%
14	14.456	14.368	14.474	BV	790588	10079979	82.30%	4.952%
15	14.500	14.474	14.523	VV	848708	9904750	80.87%	4.866%
16	16.005	15.961	16.020	BV	680982	9644571	78.74%	4.738%
17	16.040	16.020	16.101	VV	793750	9455168	77.20%	4.645%
18	16.382	16.294	16.452	BV	671014	9063526	74.00%	4.453%
19	17.749	17.701	17.764	BV	612793	8965310	73.20%	4.404%
20	17.787	17.764	17.954	VV	633422	8440127	68.91%	4.146%
21	18.000	17.954	18.164	VB	578563	8589912	70.13%	4.220%

Sum of corrected areas: 203556618

Aromatic EPH 111424.M Sat Nov 23 00:15:29 2024

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067855.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 14:33
Operator : YP/AJ
Sample : P4892-02MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOTMS

Integration File: sample.E
Quant Time: Nov 22 22:23:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.942	5309462	36.576 ug/ml
Spiked Amount	50.000		Recovery =	73.15%
	Target Compounds			
1) T	n-Nonane (C9)	3.288	5123564	31.411 ug/ml
2) T	n-Decane (C10)	4.351	6306717	38.031 ug/ml
4) T	n-Dodecane (C12)	6.365	7383817	43.840 ug/ml
6) T	n-Tetradecane (C14)	8.157	8348288	49.849 ug/ml
7) T	n-Hexadecane (C16)	9.756	9319018	53.775 ug/ml
8) T	n-Octadecane (C18)	11.195	9780471	55.590 ug/ml
10) T	n-Eicosane (C20)	12.503	9725518	57.757 ug/ml
11) T	n-Heneicosane (C21)	13.114	9247507	56.203 ug/ml
13) T	n-Docosane (C22)	13.699	9123219	56.021 ug/ml
14) T	n-Tetracosane (C24)	14.801	8803011	54.888 ug/ml
15) T	n-Hexacosane (C26)	15.819	8500212	54.889 ug/ml
16) T	n-Octacosane (C28)	16.767	8220149	54.430 ug/ml
17) T	n-Tricontane (C30)	17.654	8062803	52.661 ug/ml
18) T	n-Dotriacontane (C32)	18.484	7814207	52.909 ug/ml
19) T	n-Tetratriacontane (C34)	19.267	7564022	59.970 ug/ml
20) T	n-Hexatriacontane (C36)	20.005	7121878	68.095 ug/ml
21) T	n-Octatriacontane (C38)	20.729	7039140	72.060 ug/ml
22) T	n-Tetracontane (C40)	21.619	6941629	71.221 ug/ml

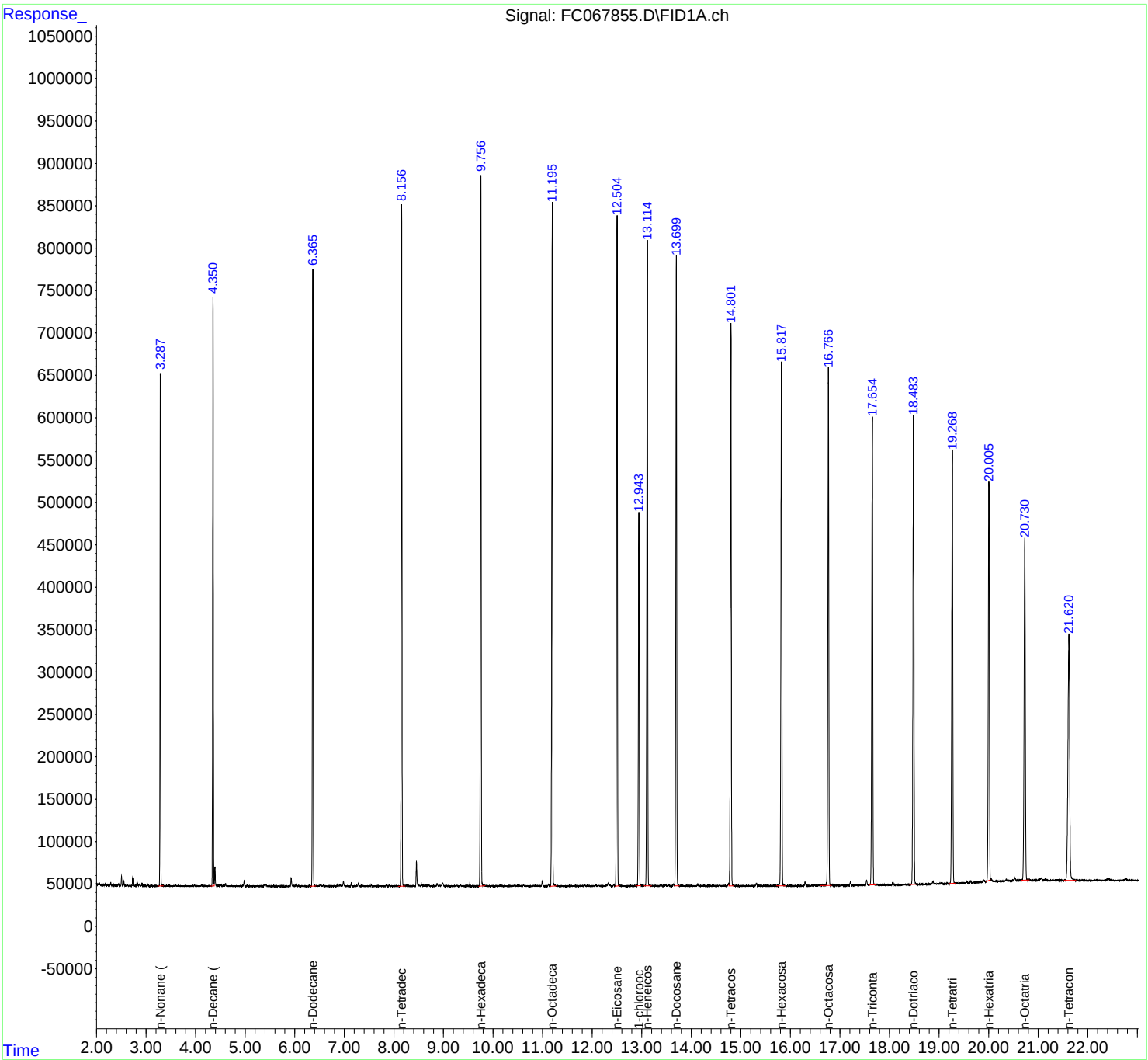
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067855.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 14:33
Operator : YP/AJ
Sample : P4892-02MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOTMS

Integration File: sample.E
Quant Time: Nov 22 22:23:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067855.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 14:33
Sample : P4892-02MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.288	3.230	3.349	BB	603826	5123564	52.39%	3.394%
2	4.351	4.289	4.375	BV	694438	6306717	64.48%	4.178%
3	4.390	4.375	4.432	VB	22780	215103	2.20%	0.142%
4	4.981	4.857	5.015	BV	6694	89181	0.91%	0.059%
5	5.928	5.880	5.964	BV	9913	102505	1.05%	0.068%
6	6.365	6.305	6.430	BV	728236	7383817	75.50%	4.891%
7	6.983	6.949	7.042	BB	5895	77310	0.79%	0.051%
8	7.144	7.042	7.170	BB	4252	51194	0.52%	0.034%
9	7.284	7.264	7.307	VB	3482	38654	0.40%	0.026%
10	8.157	8.089	8.227	BV	803537	8348288	85.36%	5.530%
11	8.456	8.415	8.532	BB	29021	337237	3.45%	0.223%
12	9.756	9.707	9.840	BB	834906	9319018	95.28%	6.173%
13	10.994	10.937	11.029	BB	6083	67930	0.69%	0.045%
14	11.195	11.154	11.290	PB	804901	9780471	100.00%	6.479%
15	12.503	12.461	12.550	PB	791938	9725518	99.44%	6.443%
16	12.942	12.877	12.989	BB	435476	5309462	54.29%	3.517%
17	13.114	13.040	13.197	BB	762440	9247507	94.55%	6.126%
18	13.699	13.660	13.764	VB	741425	9123219	93.28%	6.044%
19	14.801	14.760	14.870	VB	666709	8803011	90.01%	5.832%
20	15.819	15.720	15.912	BB	612744	8500212	86.91%	5.631%
21	16.296	16.249	16.340	BB	3828	53189	0.54%	0.035%
22	16.767	16.595	16.834	BB	608060	8220149	84.05%	5.445%
23	17.211	17.159	17.257	BB	4009	56928	0.58%	0.038%
24	17.538	17.484	17.570	BB	5664	79071	0.81%	0.052%
25	17.654	17.585	17.737	BB	552234	8062803	82.44%	5.341%
26	18.070	18.012	18.109	BB	3434	52918	0.54%	0.035%
27	18.484	18.402	18.554	BB	549799	7814207	79.90%	5.176%
28	19.267	19.200	19.327	BV	503145	7564022	77.34%	5.011%
29	20.005	19.944	20.042	BV	470752	7121878	72.82%	4.718%
30	20.729	20.645	20.824	BB	399650	7039140	71.97%	4.663%
31	21.619	21.519	21.760	BB	288113	6941629	70.97%	4.598%

Sum of corrected areas: 150955850

Aliphatic EPH 111424.M Sat Nov 23 04:05:40 2024

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048806.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 14:33
Operator : YP/AJ
Sample : P4892-02MS
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File: autoint1.e
Quant Time: Nov 22 23:09:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	9037965	51.335 ug/ml
Spiked Amount	50.000		Recovery =	102.67%
6) S	2-Flurobiphenyl (SURR)	8.218	5777283	50.163 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.33%
11) S	ortho-Terphenyl (SURR)	11.253	6648422	34.567 ug/ml
Spiked Amount	50.000		Recovery =	69.13%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	7457398	39.570 ug/ml
2) T	Naphthalene (C11.7)	5.707	8534052	43.636 ug/ml
3) T	2-Methylnaphthalene (...	6.754	8393361	43.920 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	9860469	50.847 ug/ml
7) T	Acenaphthene (C15.5)	8.317	10485836	54.516 ug/ml
8) T	Flouorene (C16.55)	9.096	10753423	56.050 ug/ml
9) T	Phenanthrene (C19.36)	10.485	11109879	60.609 ug/ml
10) T	Anthracene (C19.43)	10.561	11232986	59.983 ug/ml
12) T	Fluoranthene (C21.85)	12.292	11437244	62.457 ug/mlm
13) T	Pyrene (C20.8)	12.585	11150305	61.674 ug/ml
14) T	Benzo[a]anthracene (C...	14.455	10614767	64.527 ug/ml
15) T	Chrysene (C27.41)	14.499	10598964	60.561 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	10091085	64.226 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.042	10418164	63.838 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.381	9535336	63.954 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.750	9706249	78.574 ug/ml
20) T	Dibenz[a,h]anthracene...	17.787	9160239	58.415 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.003	9060212	63.497 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

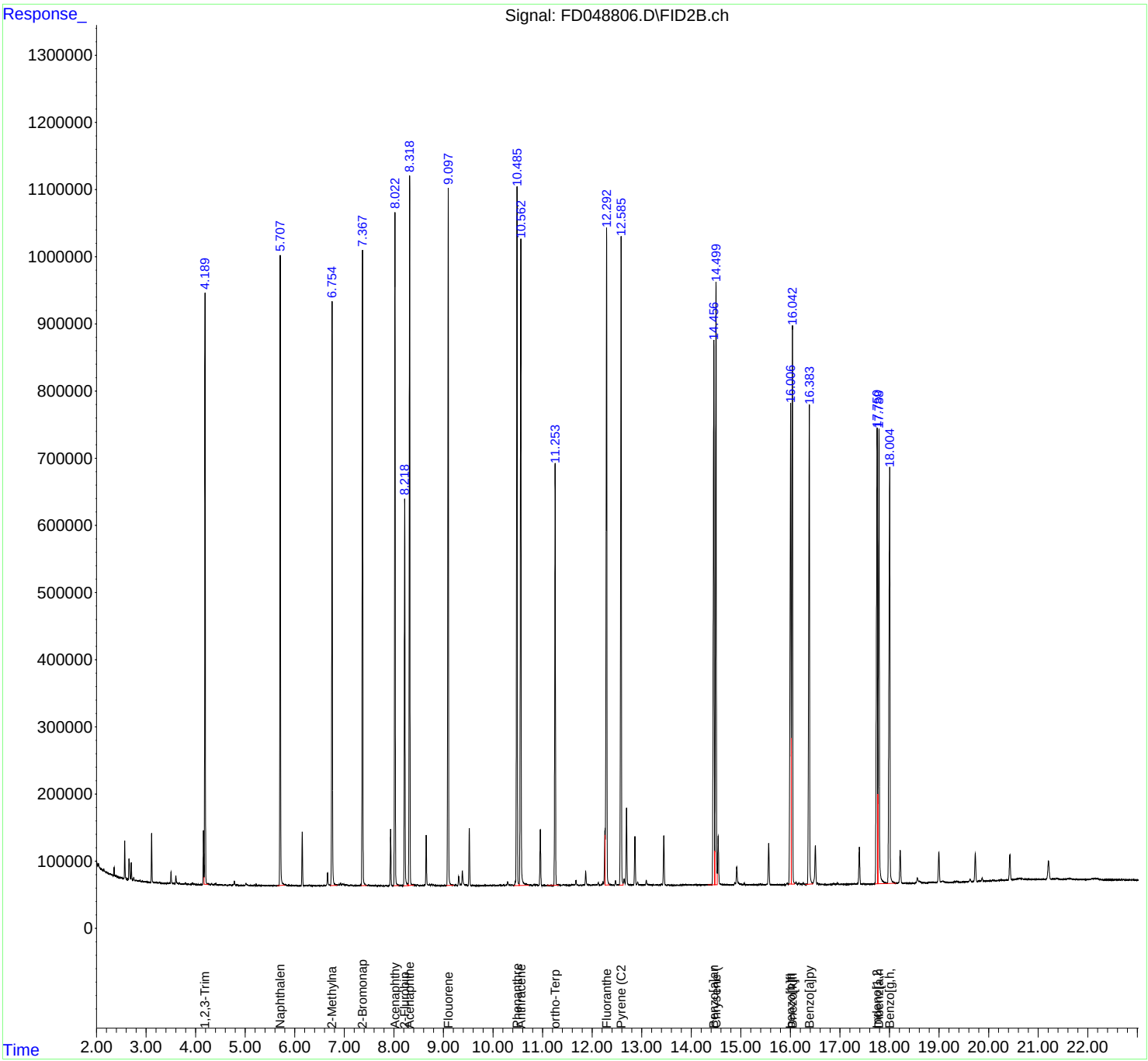
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048806.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 14:33
Operator : YP/AJ
Sample : P4892-02MS
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 23:09:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



10

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMS

rteres

Area Percent

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Da
Data File : FD048806.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 14:33
Sample : P4892-02MS
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.189	4.170	4.254	VV	869561	7457398	61.39%	3.489%
2	5.707	5.644	5.796	BV	945425	8534052	70.25%	3.993%
3	6.151	6.094	6.211	BB	80103	769672	6.34%	0.360%
4	6.663	6.611	6.721	BV	19392	237014	1.95%	0.111%
5	6.754	6.721	6.858	VB	871952	8393361	69.09%	3.927%
6	7.367	7.341	7.454	PV	950386	9037965	74.40%	4.229%
7	7.934	7.858	7.989	BBA	84205	822039	6.77%	0.385%
8	8.021	7.991	8.104	BB	1001232	9860469	81.17%	4.614%
9	8.218	8.191	8.288	PV	576998	5777283	47.56%	2.703%
10	8.317	8.288	8.404	VB	1056855	10485836	86.31%	4.906%
11	8.652	8.600	8.701	PV	74871	756283	6.23%	0.354%
12	9.096	9.054	9.208	BB	1058849	10753423	88.52%	5.031%
13	9.308	9.278	9.339	BV	13606	166277	1.37%	0.078%
14	9.382	9.364	9.484	VB	21769	316743	2.61%	0.148%
15	9.522	9.491	9.568	BB	84983	893786	7.36%	0.418%
16	10.485	10.421	10.528	BV	1037079	11109879	91.45%	5.198%
17	10.561	10.528	10.728	VB	951889	11232986	92.46%	5.256%
18	10.955	10.911	10.998	PB	83086	930400	7.66%	0.435%
19	11.253	11.088	11.324	BB	628560	6648422	54.73%	3.111%
20	11.674	11.641	11.698	BV	7226	79790	0.66%	0.037%
21	11.870	11.846	11.934	VB	20029	239561	1.97%	0.112%
22	12.291	12.232	12.414	VB	970239	12148518	100.00%	5.684%
23	12.471	12.414	12.511	BB	6884	76035	0.63%	0.036%
24	12.585	12.544	12.624	BV	957857	11150305	91.78%	5.217%
25	12.644	12.624	12.666	VV	9404	133736	1.10%	0.063%

10

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

A B C D E F G H I J

rteres

26	12.694	12.666	12.764	VB	115434	1353833	11.14%	0.633%
27	12.864	12.788	12.894	BV	72189			
28	13.093	13.004	13.174	BB	7113			
29	13.447	13.417	13.504	VB	73381			
30	14.455	14.338	14.473	BV	807036	10		
31	14.499	14.473	14.524	VV	878822	10598964	87.24%	4.959%
32	14.544	14.524	14.634	VB	72756	969440	7.98%	0.454%
33	14.917	14.893	15.018	VB	26655	418855	3.45%	0.196%
34	15.562	15.531	15.594	VB	61113	782753	6.44%	0.366%
35	16.005	15.961	16.020	BV	713555	10091085	83.06%	4.721%
36	16.041	16.020	16.098	VV	828019	10042066	82.66%	4.698%
37	16.381	16.301	16.453	BV	705453	9535336	78.49%	4.461%
38	16.504	16.453	16.534	VV	56774	822878	6.77%	0.385%
39	17.391	17.304	17.444	BV	55138	734221	6.04%	0.344%
40	17.750	17.701	17.764	BV	691609	9706249	79.90%	4.541%
41	17.787	17.764	17.954	VV	677819	9160239	75.40%	4.286%
42	18.003	17.954	18.131	VV	633195	9060212	74.58%	4.239%

Sum of corrected areas: 213730366

Aromatic EPH 111424.M Sat Nov 23 04:16:18 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067856.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 15:09
Operator : YP/AJ
Sample : P4892-02MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOTMSD

Integration File: sample.E
Quant Time: Nov 22 22:23:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.943	5268352	36.293 ug/ml
Spiked Amount	50.000		Recovery =	72.59%
	Target Compounds			
1) T	n-Nonane (C9)	3.288	4972098	30.482 ug/ml
2) T	n-Decane (C10)	4.351	6112217	36.858 ug/ml
4) T	n-Dodecane (C12)	6.365	7132822	42.349 ug/ml
6) T	n-Tetradecane (C14)	8.157	8065933	48.163 ug/ml
7) T	n-Hexadecane (C16)	9.756	9050665	52.226 ug/ml
8) T	n-Octadecane (C18)	11.196	9583130	54.468 ug/ml
10) T	n-Eicosane (C20)	12.503	9627469	57.175 ug/ml
11) T	n-Heneicosane (C21)	13.114	9174075	55.756 ug/ml
13) T	n-Docosane (C22)	13.699	9075628	55.729 ug/ml
14) T	n-Tetracosane (C24)	14.800	8779553	54.742 ug/ml
15) T	n-Hexacosane (C26)	15.819	8488364	54.813 ug/ml
16) T	n-Octacosane (C28)	16.768	8213716	54.387 ug/ml
17) T	n-Tricontane (C30)	17.653	8065058	52.675 ug/ml
18) T	n-Dotriacontane (C32)	18.484	7821561	52.959 ug/ml
19) T	n-Tetratriacontane (C34)	19.267	7576114	60.066 ug/ml
20) T	n-Hexatriacontane (C36)	20.005	7207556	68.914 ug/ml
21) T	n-Octatriacontane (C38)	20.730	7048775	72.159 ug/ml
22) T	n-Tetracontane (C40)	21.621	6933249	71.135 ug/ml

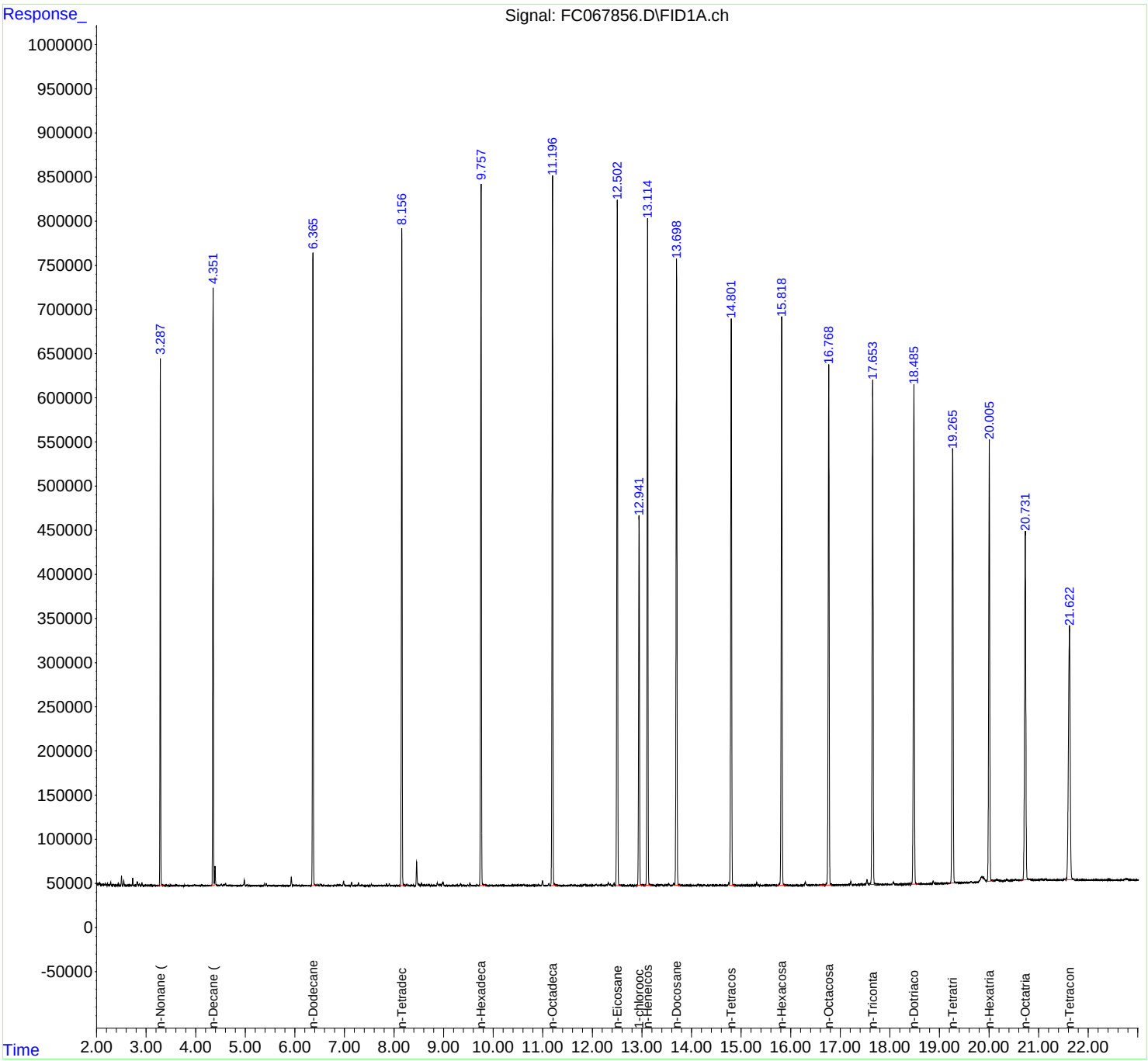
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067856.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 15:09
Operator : YP/AJ
Sample : P4892-02MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-310-BOTMSD

Integration File: sample.E
Quant Time: Nov 22 22:23:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC112224AL\
Data File : FC067856.D
Signal(s) : FID1A.ch
Acq On : 22 Nov 2024 15:09
Sample : P4892-02MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.288	3.225	3.350	BB	594211	4972098	51.64%	3.322%
2	4.351	4.287	4.375	BV	675901	6112217	63.49%	4.084%
3	4.391	4.375	4.437	VB	21950	208702	2.17%	0.139%
4	4.981	4.870	5.017	BV	6424	84634	0.88%	0.057%
5	5.928	5.882	5.964	BV	9487	99018	1.03%	0.066%
6	6.365	6.305	6.429	BV	718700	7132822	74.09%	4.766%
7	6.983	6.949	7.040	BB	5525	74880	0.78%	0.050%
8	7.144	7.095	7.175	BB	4000	42111	0.44%	0.028%
9	7.284	7.190	7.305	BB	3361	53339	0.55%	0.036%
10	8.157	8.099	8.224	BV	745069	8065933	83.78%	5.389%
11	8.456	8.425	8.535	BV	27241	330343	3.43%	0.221%
12	9.756	9.707	9.842	BB	798762	9050665	94.01%	6.047%
13	10.994	10.940	11.032	BB	5606	66498	0.69%	0.044%
14	11.196	11.157	11.285	PB	795957	9583130	99.54%	6.403%
15	12.322	12.225	12.345	BV	2741	31494	0.33%	0.021%
16	12.503	12.461	12.574	PB	776301	9627469	100.00%	6.433%
17	12.943	12.880	12.999	BB	417894	5268352	54.72%	3.520%
18	13.114	13.045	13.199	BB	753227	9174075	95.29%	6.130%
19	13.699	13.660	13.770	VB	706738	9075628	94.27%	6.064%
20	14.800	14.762	14.870	VB	635383	8779553	91.19%	5.866%
21	15.819	15.729	15.910	BB	643987	8488364	88.17%	5.672%
22	16.297	16.247	16.332	BB	3797	51872	0.54%	0.035%
23	16.768	16.595	16.834	BB	591015	8213716	85.32%	5.488%
24	17.212	17.162	17.255	BB	3576	51594	0.54%	0.034%
25	17.539	17.504	17.574	BB	5716	83273	0.86%	0.056%
26	17.653	17.587	17.734	BB	568997	8065058	83.77%	5.389%
27	18.484	18.415	18.572	BB	554465	7821561	81.24%	5.226%
28	19.267	19.187	19.334	BV	489552	7576114	78.69%	5.062%
29	19.851	19.752	19.947	BV	5597	290848	3.02%	0.194%
30	20.005	19.947	20.085	VB	500091	7207556	74.86%	4.816%
31	20.730	20.640	20.809	BB	392623	7048775	73.22%	4.710%
32	21.621	21.520	21.755	BB	288015	6933249	72.02%	4.633%

Sum of corrected areas: 149664943

Aliphatic EPH 111424.M Sat Nov 23 04:05:59 2024

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048807.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 15:09
Operator : YP/AJ
Sample : P4892-02MSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File: autoint1.e
Quant Time: Nov 22 23:10:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	9192847	52.215 ug/ml
Spiked Amount	50.000		Recovery =	104.43%
6) S	2-Flurobiphenyl (SURR)	8.218	5776105	50.153 ug/mlm
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.31%
11) S	ortho-Terphenyl (SURR)	11.254	6752416	35.107 ug/ml
Spiked Amount	50.000		Recovery =	70.21%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	7621930	40.443 ug/ml
2) T	Naphthalene (C11.7)	5.707	8686067	44.413 ug/ml
3) T	2-Methylnaphthalene (...	6.754	8558761	44.785 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	10039064	51.767 ug/ml
7) T	Acenaphthene (C15.5)	8.317	10673367	55.491 ug/ml
8) T	Flouorene (C16.55)	9.096	10927265	56.957 ug/ml
9) T	Phenanthrene (C19.36)	10.485	11265249	61.457 ug/ml
10) T	Anthracene (C19.43)	10.561	11392677	60.836 ug/ml
12) T	Fluoranthene (C21.85)	12.293	11434019	62.439 ug/mlm
13) T	Pyrene (C20.8)	12.585	11288673	62.440 ug/ml
14) T	Benzo[a]anthracene (C...	14.456	10738978	65.282 ug/ml
15) T	Chrysene (C27.41)	14.501	10712809	61.211 ug/ml
16) T	benzo[b]fluoranthene ...	16.006	10199560	64.917 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.042	10288816	63.046 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.383	9637935	64.642 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.750	9752350	78.947 ug/ml
20) T	Dibenz[a,h]anthracene...	17.788	9318588	59.425 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.004	9168571	64.257 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

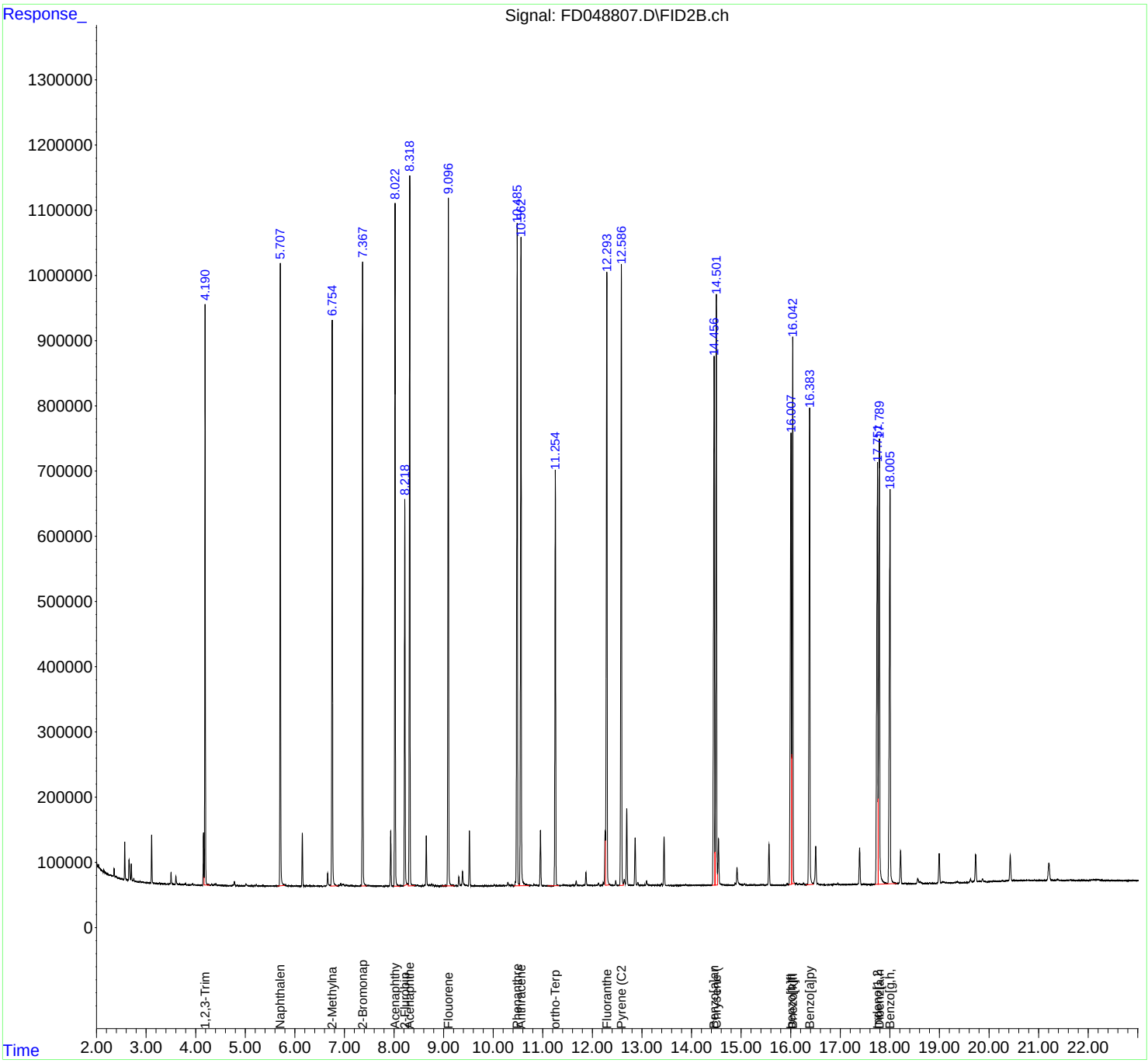
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD112224AR\
Data File : FD048807.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 15:09
Operator : YP/AJ
Sample : P4892-02MSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 23:10:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



10

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

A B C D E F G H I J

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Da
Data File : FD048807.D
Signal(s) : FID2B.ch
Acq On : 22 Nov 2024 15:09
Sample : P4892-02MSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.190	4.170	4.288	VB	895396	7621930	61.97%	3.516%
2	5.707	5.648	5.797	BV	962590	8686067	70.63%	4.007%
3	6.151	6.088	6.214	BB	81336	783956	6.37%	0.362%
4	6.663	6.611	6.721	BV	19892	250701	2.04%	0.116%
5	6.754	6.721	6.871	VB	871368	8558761	69.59%	3.948%
6	7.367	7.338	7.451	VV	962250	9192847	74.75%	4.240%
7	7.934	7.864	7.989	BBA	84521	838156	6.81%	0.387%
8	8.021	7.991	8.108	BV	1040580	10039064	81.63%	4.631%
9	8.218	8.186	8.288	PV	592613	5874113	47.76%	2.710%
10	8.317	8.288	8.428	VB	1097615	10673367	86.78%	4.923%
11	8.651	8.598	8.698	PV	76335	767243	6.24%	0.354%
12	9.096	8.968	9.224	BB	1037083	10927265	88.85%	5.040%
13	9.308	9.224	9.338	BV	13969	164176	1.33%	0.076%
14	9.382	9.361	9.488	VB	22187	315593	2.57%	0.146%
15	9.521	9.488	9.574	BB	84624	907849	7.38%	0.419%
16	10.485	10.414	10.528	BV	1010592	11265249	91.60%	5.196%
17	10.561	10.528	10.731	VB	993508	11392677	92.63%	5.255%
18	10.955	10.911	10.991	PV	84711	944357	7.68%	0.436%
19	11.254	11.094	11.324	BB	639714	6752416	54.90%	3.115%
20	11.674	11.634	11.698	PV	7095	81049	0.66%	0.037%
21	11.870	11.761	11.938	BV	20148	245459	2.00%	0.113%
22	12.292	12.232	12.421	VB	928987	12298828	100.00%	5.673%
23	12.471	12.421	12.521	BB	7245	82212	0.67%	0.038%
24	12.585	12.544	12.624	BV	946457	11288673	91.79%	5.207%
25	12.644	12.624	12.666	VV	9103	135480	1.10%	0.062%

10

Instrument :
FID_D
ClientSampleId :
WB-310-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

A B C D E F G H I J

rteres

26	12.694	12.666	12.774	VB	118383	1372255	11.16%	0.633%
27	12.864	12.794	12.894	BV	72695			
28	13.093	13.021	13.171	BB	7088			
29	13.447	13.418	13.518	VB	74550			
30	14.456	14.408	14.474	BV	800038	10		
31	14.501	14.474	14.524	VV	910434	10712809	87.10%	4.941%
32	14.544	14.524	14.634	VB	71290	983847	8.00%	0.454%
33	14.918	14.894	15.024	VB	26331	424200	3.45%	0.196%
34	15.563	15.478	15.631	BB	63111	810475	6.59%	0.374%
35	16.006	15.961	16.021	BV	704744	10199560	82.93%	4.705%
36	16.041	16.021	16.096	VV	833731	10150413	82.53%	4.682%
37	16.383	16.304	16.451	BV	711815	9637935	78.36%	4.446%
38	16.505	16.451	16.535	VV	58424	835029	6.79%	0.385%
39	17.391	17.304	17.448	BV	56008	743079	6.04%	0.343%
40	17.750	17.701	17.764	BV	649727	9752350	79.29%	4.498%
41	17.788	17.764	17.951	VV	665201	9318588	75.77%	4.298%
42	18.004	17.951	18.144	VV	607819	9168571	74.55%	4.229%

Sum of corrected areas: 216795338

Aromatic EPH 111424.M Sat Nov 23 04:16:41 2024

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

Manual Integration Report

Sequence:	FC111424AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
5 PPM ALIPHATIC HC	FC067752.D	n-Hexatriacontane (C36)	yogesh	11/15/2024 9:29:46 AM	Ankita	11/15/2024 10:13:22	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC112124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067839.D	n-Octacosane (C28)	yogesh	11/22/2024 8:45:03 AM	Ankita	11/22/2024 11:30:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067839.D	n-Tetratriacontane (C34)	yogesh	11/22/2024 8:45:03 AM	Ankita	11/22/2024 11:30:48	Peak Integrated by Software
PB165151BS	FC067841.D	A~2-methylnaphthalene (C12.89)	yogesh	11/22/2024 8:45:04 AM	Ankita	11/22/2024 11:30:50	Peak Integrated by Software
PB165151BS	FC067841.D	A~Naphthalene (C11.7)	yogesh	11/22/2024 8:45:04 AM	Ankita	11/22/2024 11:30:50	Peak Integrated by Software
PB165151BS	FC067841.D	n-Tetracontane (C40)	yogesh	11/22/2024 8:45:04 AM	Ankita	11/22/2024 11:30:50	Peak Integrated by Software
PB165151BS	FC067841.D	n-Tetracosane (C24)	yogesh	11/22/2024 8:45:04 AM	Ankita	11/22/2024 11:30:50	Peak Integrated by Software
PB165151BS	FC067841.D	ortho-Terphenyl (SURR)	yogesh	11/22/2024 8:45:04 AM	Ankita	11/22/2024 11:30:50	Peak Integrated by Software
PB165151BSD	FC067842.D	A~2-methylnaphthalene (C12.89)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software
PB165151BSD	FC067842.D	A~Naphthalene (C11.7)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software
PB165151BSD	FC067842.D	n-Hexacosane (C26)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software
PB165151BSD	FC067842.D	n-Hexatriacontane (C36)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software
PB165151BSD	FC067842.D	n-Tetracosane (C24)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software
PB165151BSD	FC067842.D	ortho-Terphenyl (SURR)	yogesh	11/22/2024 8:45:06 AM	Ankita	11/22/2024 11:30:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC112124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067845.D	n-Octacosane (C28)	yogesh	11/22/2024 8:45:08 AM	Ankita	11/22/2024 11:30:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067845.D	n-Octatriacontane (C38)	yogesh	11/22/2024 8:45:08 AM	Ankita	11/22/2024 11:30:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067845.D	n-Tetracontane (C40)	yogesh	11/22/2024 8:45:08 AM	Ankita	11/22/2024 11:30:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067845.D	n-Tetratriacontane (C34)	yogesh	11/22/2024 8:45:08 AM	Ankita	11/22/2024 11:30:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067845.D	n-Tricontane (C30)	yogesh	11/22/2024 8:45:08 AM	Ankita	11/22/2024 11:30:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC112224AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067848.D	n-Octadecane (C18)	yogesh	11/25/2024 8:49:27 AM	Ankita	11/25/2024 9:30:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067848.D	n-Tetracontane (C40)	yogesh	11/25/2024 8:49:27 AM	Ankita	11/25/2024 9:30:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067848.D	n-Tetratriacontane (C34)	yogesh	11/25/2024 8:49:27 AM	Ankita	11/25/2024 9:30:48	Peak Integrated by Software
PB165188BS	FC067850.D	n-Hexacosane (C26)	yogesh	11/25/2024 8:49:29 AM	Ankita	11/25/2024 9:30:49	Peak Integrated by Software
PB165188BS	FC067850.D	n-Tetracosane (C24)	yogesh	11/25/2024 8:49:29 AM	Ankita	11/25/2024 9:30:49	Peak Integrated by Software
P4892-01	FC067852.D	1-chlorooctadecane (SURR)	yogesh	11/25/2024 8:49:31 AM	Ankita	11/25/2024 9:30:50	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067858.D	n-Octacosane (C28)	yogesh	11/25/2024 8:49:32 AM	Ankita	11/25/2024 9:30:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067858.D	n-Octadecane (C18)	yogesh	11/25/2024 8:49:32 AM	Ankita	11/25/2024 9:30:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD111424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM AROMATIC HC	FD048732.D	Acenaphthylene (C15.06)	yogesh	11/15/2024 9:30:06 AM	Ankita	11/15/2024 10:08:28	Peak Integrated by Software
5 PPM AROMATIC HC	FD048733.D	Acenaphthylene (C15.06)	yogesh	11/15/2024 9:30:08 AM	Ankita	11/15/2024 10:08:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD112124AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB165151BS	FD048792.D	2-Flurobiphenyl (SURR)	yogesh	11/29/2024 12:43:58 AM	mohammad	11/29/2024 12:52:49	Peak Integrated by Software
PB165151BS	FD048792.D	Fluoranthene (C21.85)	yogesh	11/29/2024 12:43:58 AM	mohammad	11/29/2024 12:52:49	Peak Integrated by Software
PB165151BS	FD048792.D	Phenanthrene (C19.36)	yogesh	11/29/2024 12:43:58 AM	mohammad	11/29/2024 12:52:49	Peak Integrated by Software
PB165151BSD	FD048793.D	Fluoranthene (C21.85)	yogesh	11/29/2024 12:43:59 AM	mohammad	11/29/2024 12:52:52	Peak Integrated by Software
20 PPM AROMATIC HC	FD048796.D	ortho-Terphenyl (SURR)	yogesh	11/22/2024 8:45:28 AM	Ankita	11/22/2024 11:30:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD112224AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048799.D	Benzo[a]pyrene (C31.34)	yogesh	11/25/2024 8:49:56 AM	Ankita	11/25/2024 9:32:02	Peak Integrated by Software
PB165188BS	FD048801.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/25/2024 8:49:58 AM	Ankita	11/25/2024 9:32:05	Peak Integrated by Software
PB165188BSD	FD048802.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/25/2024 8:50:00 AM	Ankita	11/25/2024 9:32:06	Peak Integrated by Software
P4892-02MS	FD048806.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/25/2024 8:50:01 AM	Ankita	11/25/2024 9:32:08	Peak Integrated by Software
P4892-02MSD	FD048807.D	2-Flurobiphenyl (SURR)	yogesh	11/25/2024 8:50:03 AM	Ankita	11/25/2024 9:32:09	Peak Integrated by Software
P4892-02MSD	FD048807.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/25/2024 8:50:03 AM	Ankita	11/25/2024 9:32:09	Peak Integrated by Software
20 PPM AROMATIC HC	FD048809.D	Benzo[g,h,i]perylene (C34.01)	yogesh	11/25/2024 8:50:05 AM	Ankita	11/25/2024 9:32:11	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067746.D	14 Nov 2024 08:52	YP/AJ	Ok
2	I.BLK	FC067747.D	14 Nov 2024 09:27	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067748.D	14 Nov 2024 10:39	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067749.D	14 Nov 2024 11:15	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067750.D	14 Nov 2024 11:51	YP/AJ	Ok
6	10 PPM ALIHPHATIC HC STD4	FC067751.D	14 Nov 2024 12:27	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067752.D	14 Nov 2024 13:03	YP/AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FC067753.D	14 Nov 2024 13:49	YP/AJ	Ok
9	I.BLK	FC067754.D	14 Nov 2024 14:24	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067755.D	14 Nov 2024 15:00	YP/AJ	Ok
11	PB164966BL	FC067756.D	14 Nov 2024 15:36	YP/AJ	Ok
12	PB164966BS	FC067757.D	14 Nov 2024 16:13	YP/AJ	Ok
13	PB164966BSD	FC067758.D	14 Nov 2024 16:49	YP/AJ	Ok
14	P4833-01	FC067759.D	14 Nov 2024 17:25	YP/AJ	Ok
15	P4833-01D	FC067760.D	14 Nov 2024 18:02	YP/AJ	Ok
16	P4833-01MS	FC067761.D	14 Nov 2024 18:38	YP/AJ	Ok
17	P4833-01MSD	FC067762.D	14 Nov 2024 19:14	YP/AJ	Ok
18	P4833-02	FC067763.D	15 Nov 2024 02:06	YP/AJ	Ok
19	P4833-05	FC067764.D	15 Nov 2024 02:41	YP/AJ	Ok
20	P4833-06	FC067765.D	15 Nov 2024 03:17	YP/AJ	Ok
21	I.BLK	FC067766.D	15 Nov 2024 04:58	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	20 PPM ALIPHATIC HC STD	FC067767.D	15 Nov 2024 05:34	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC112124AL

Review By	yogesh	Review On	11/21/2024 11:18:29 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:30:56 AM		
SubDirectory	FC112124AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067837.D	21 Nov 2024 09:26	YP/AJ	Ok
2	I.BLK	FC067838.D	21 Nov 2024 10:02	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067839.D	21 Nov 2024 10:39	YP/AJ	Ok,M
4	PB165151BL	FC067840.D	21 Nov 2024 11:16	YP/AJ	Ok
5	PB165151BS	FC067841.D	21 Nov 2024 11:53	YP/AJ	Ok,M
6	PB165151BSD	FC067842.D	21 Nov 2024 12:31	YP/AJ	Ok,M
7	P4892-04	FC067843.D	21 Nov 2024 13:08	YP/AJ	Ok
8	I.BLK	FC067844.D	21 Nov 2024 13:46	YP/AJ	Ok
9	20 PPM ALIPHATIC HC STD	FC067845.D	21 Nov 2024 14:23	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC112224AL

Review By	yogesh	Review On	11/22/2024 11:08:51 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:30:58 AM		
SubDirectory	FC112224AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067846.D	22 Nov 2024 09:07	YP/AJ	Ok
2	I.BLK	FC067847.D	22 Nov 2024 09:43	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067848.D	22 Nov 2024 10:19	YP/AJ	Ok,M
4	PB165188BL	FC067849.D	22 Nov 2024 10:55	YP/AJ	Ok
5	PB165188BS	FC067850.D	22 Nov 2024 11:32	YP/AJ	Ok,M
6	PB165188BSD	FC067851.D	22 Nov 2024 12:08	YP/AJ	Ok
7	P4892-01	FC067852.D	22 Nov 2024 12:44	YP/AJ	Ok,M
8	P4892-02	FC067853.D	22 Nov 2024 13:20	YP/AJ	Ok
9	P4892-02D	FC067854.D	22 Nov 2024 13:56	YP/AJ	Ok
10	P4892-02MS	FC067855.D	22 Nov 2024 14:33	YP/AJ	Ok
11	P4892-02MSD	FC067856.D	22 Nov 2024 15:09	YP/AJ	Ok
12	I.BLK	FC067857.D	22 Nov 2024 15:45	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC067858.D	22 Nov 2024 16:57	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

Review By	yogesh	Review On	11/14/2024 11:28:45 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:08:51 AM		
SubDirectory	FD111424AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048727.D	14 Nov 2024 08:52	YP/AJ	Ok
2	I.BLK	FD048728.D	14 Nov 2024 09:27	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048729.D	14 Nov 2024 10:39	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048730.D	14 Nov 2024 11:15	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048731.D	14 Nov 2024 11:51	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048732.D	14 Nov 2024 12:27	YP/AJ	Ok,M
7	5 PPM AROMATIC HC STD5	FD048733.D	14 Nov 2024 13:03	YP/AJ	Ok,M
8	20 PPM AROMATIC HC STD ICV	FD048734.D	14 Nov 2024 13:49	YP/AJ	Ok
9	I.BLK	FD048735.D	14 Nov 2024 14:24	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048736.D	14 Nov 2024 15:00	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD112124AR

Review By	yogesh	Review On	11/21/2024 11:19:17 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:53:02 AM		
SubDirectory	FD112124AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048788.D	21 Nov 2024 09:26	YP/AJ	Ok
2	I.BLK	FD048789.D	21 Nov 2024 10:02	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048790.D	21 Nov 2024 10:39	YP/AJ	Ok
4	PB165151BL	FD048791.D	21 Nov 2024 11:16	YP/AJ	Ok
5	PB165151BS	FD048792.D	21 Nov 2024 11:53	YP/AJ	Ok,M
6	PB165151BSD	FD048793.D	21 Nov 2024 12:31	YP/AJ	Ok,M
7	P4892-04	FD048794.D	21 Nov 2024 13:08	YP/AJ	Ok
8	I.BLK	FD048795.D	21 Nov 2024 13:46	YP/AJ	Ok
9	20 PPM AROMATIC HC STD	FD048796.D	21 Nov 2024 14:23	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 # FD112224AR

Review By	yogesh	Review On	11/22/2024 11:10:19 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:32:15 AM		
SubDirectory	FD112224AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048797.D	22 Nov 2024 09:07	YP/AJ	Ok
2	I.BLK	FD048798.D	22 Nov 2024 09:43	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048799.D	22 Nov 2024 10:19	YP/AJ	Ok,M
4	PB165188BL	FD048800.D	22 Nov 2024 10:55	YP/AJ	Ok
5	PB165188BS	FD048801.D	22 Nov 2024 11:32	YP/AJ	Ok,M
6	PB165188BSD	FD048802.D	22 Nov 2024 12:08	YP/AJ	Ok,M
7	P4892-01	FD048803.D	22 Nov 2024 12:44	YP/AJ	Ok
8	P4892-02	FD048804.D	22 Nov 2024 13:20	YP/AJ	Ok
9	P4892-02D	FD048805.D	22 Nov 2024 13:56	YP/AJ	Ok
10	P4892-02MS	FD048806.D	22 Nov 2024 14:33	YP/AJ	Ok,M
11	P4892-02MSD	FD048807.D	22 Nov 2024 15:09	YP/AJ	Ok,M
12	I.BLK	FD048808.D	22 Nov 2024 15:45	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD048809.D	22 Nov 2024 16:21	YP/AJ	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067746.D	14 Nov 2024 08:52		YP/AJ	Ok
2	I.BLK	I.BLK	FC067747.D	14 Nov 2024 09:27		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067748.D	14 Nov 2024 10:39		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067749.D	14 Nov 2024 11:15		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067750.D	14 Nov 2024 11:51		YP/AJ	Ok
6	10 PPM ALIHPHATIC H	10 PPM ALIHPHATIC H	FC067751.D	14 Nov 2024 12:27		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067752.D	14 Nov 2024 13:03		YP/AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067753.D	14 Nov 2024 13:49		YP/AJ	Ok
9	I.BLK	I.BLK	FC067754.D	14 Nov 2024 14:24		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067755.D	14 Nov 2024 15:00		YP/AJ	Ok
11	PB164966BL	PB164966BL	FC067756.D	14 Nov 2024 15:36		YP/AJ	Ok
12	PB164966BS	PB164966BS	FC067757.D	14 Nov 2024 16:13		YP/AJ	Ok
13	PB164966BSD	PB164966BSD	FC067758.D	14 Nov 2024 16:49		YP/AJ	Ok
14	P4833-01	MH-731	FC067759.D	14 Nov 2024 17:25		YP/AJ	Ok
15	P4833-01D	P4833-01D	FC067760.D	14 Nov 2024 18:02		YP/AJ	Ok
16	P4833-01MS	MH-731MS	FC067761.D	14 Nov 2024 18:38	FC067759.D	YP/AJ	Ok
17	P4833-01MSD	P4833-01MSD	FC067762.D	14 Nov 2024 19:14	FC067759.D!FC067762.D	YP/AJ	Ok
18	P4833-02	MH-731-EPH	FC067763.D	15 Nov 2024 02:06		YP/AJ	Ok

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Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4833-05	TP-2	FC067764.D	15 Nov 2024 02:41		YP/AJ	Ok
20	P4833-06	TP-2-EPH	FC067765.D	15 Nov 2024 03:17		YP/AJ	Ok
21	I.BLK	I.BLK	FC067766.D	15 Nov 2024 04:58		YP/AJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067767.D	15 Nov 2024 05:34		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 # FC112124AL

Review By	yogesh	Review On	11/21/2024 11:18:29 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:30:56 AM		
SubDirectory	FC112124AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067837.D	21 Nov 2024 09:26		YP/AJ	Ok
2	I.BLK	I.BLK	FC067838.D	21 Nov 2024 10:02		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067839.D	21 Nov 2024 10:39		YP/AJ	Ok,M
4	PB165151BL	PB165151BL	FC067840.D	21 Nov 2024 11:16		YP/AJ	Ok
5	PB165151BS	PB165151BS	FC067841.D	21 Nov 2024 11:53		YP/AJ	Ok,M
6	PB165151BSD	PB165151BSD	FC067842.D	21 Nov 2024 12:31		YP/AJ	Ok,M
7	P4892-04	WB-310-SW	FC067843.D	21 Nov 2024 13:08		YP/AJ	Ok
8	I.BLK	I.BLK	FC067844.D	21 Nov 2024 13:46		YP/AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067845.D	21 Nov 2024 14:23		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_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC112224AL

Review By	yogesh	Review On	11/22/2024 11:08:51 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:30:58 AM		
SubDirectory	FC112224AL	HP Acquire Method		HP Processing Method	FC111424AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067846.D	22 Nov 2024 09:07		YP/AJ	Ok
2	I.BLK	I.BLK	FC067847.D	22 Nov 2024 09:43		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067848.D	22 Nov 2024 10:19		YP/AJ	Ok,M
4	PB165188BL	PB165188BL	FC067849.D	22 Nov 2024 10:55		YP/AJ	Ok
5	PB165188BS	PB165188BS	FC067850.D	22 Nov 2024 11:32		YP/AJ	Ok,M
6	PB165188BSD	PB165188BSD	FC067851.D	22 Nov 2024 12:08		YP/AJ	Ok
7	P4892-01	WB-310-TOP	FC067852.D	22 Nov 2024 12:44		YP/AJ	Ok,M
8	P4892-02	WB-310-BOT	FC067853.D	22 Nov 2024 13:20		YP/AJ	Ok
9	P4892-02D	P4892-02D	FC067854.D	22 Nov 2024 13:56		YP/AJ	Ok
10	P4892-02MS	WB-310-BOTMS	FC067855.D	22 Nov 2024 14:33	FC067853.D	YP/AJ	Ok
11	P4892-02MSD	WB-310-BOTMSD	FC067856.D	22 Nov 2024 15:09	FC067853.D!FC067855.D	YP/AJ	Ok
12	I.BLK	I.BLK	FC067857.D	22 Nov 2024 15:45		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067858.D	22 Nov 2024 16:57		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

Review By	yogesh	Review On	11/14/2024 11:28:45 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:08:51 AM		
SubDirectory	FD111424AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048727.D	14 Nov 2024 08:52		YP/AJ	Ok
2	I.BLK	I.BLK	FD048728.D	14 Nov 2024 09:27		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048729.D	14 Nov 2024 10:39		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048730.D	14 Nov 2024 11:15		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048731.D	14 Nov 2024 11:51		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048732.D	14 Nov 2024 12:27		YP/AJ	Ok,M
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048733.D	14 Nov 2024 13:03		YP/AJ	Ok,M
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048734.D	14 Nov 2024 13:49		YP/AJ	Ok
9	I.BLK	I.BLK	FD048735.D	14 Nov 2024 14:24		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048736.D	14 Nov 2024 15:00		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD112124AR

Review By	yogesh	Review On	11/21/2024 11:19:17 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:53:02 AM		
SubDirectory	FD112124AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048788.D	21 Nov 2024 09:26		YP/AJ	Ok
2	I.BLK	I.BLK	FD048789.D	21 Nov 2024 10:02		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048790.D	21 Nov 2024 10:39		YP/AJ	Ok
4	PB165151BL	PB165151BL	FD048791.D	21 Nov 2024 11:16		YP/AJ	Ok
5	PB165151BS	PB165151BS	FD048792.D	21 Nov 2024 11:53		YP/AJ	Ok,M
6	PB165151BSD	PB165151BSD	FD048793.D	21 Nov 2024 12:31		YP/AJ	Ok,M
7	P4892-04	WB-310-SW	FD048794.D	21 Nov 2024 13:08		YP/AJ	Ok
8	I.BLK	I.BLK	FD048795.D	21 Nov 2024 13:46		YP/AJ	Ok
9	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048796.D	21 Nov 2024 14:23		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 # FD112224AR

Review By	yogesh	Review On	11/22/2024 11:10:19 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:32:15 AM		
SubDirectory	FD112224AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048797.D	22 Nov 2024 09:07		YP/AJ	Ok
2	I.BLK	I.BLK	FD048798.D	22 Nov 2024 09:43		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048799.D	22 Nov 2024 10:19		YP/AJ	Ok,M
4	PB165188BL	PB165188BL	FD048800.D	22 Nov 2024 10:55		YP/AJ	Ok
5	PB165188BS	PB165188BS	FD048801.D	22 Nov 2024 11:32		YP/AJ	Ok,M
6	PB165188BSD	PB165188BSD	FD048802.D	22 Nov 2024 12:08		YP/AJ	Ok,M
7	P4892-01	WB-310-TOP	FD048803.D	22 Nov 2024 12:44		YP/AJ	Ok
8	P4892-02	WB-310-BOT	FD048804.D	22 Nov 2024 13:20		YP/AJ	Ok
9	P4892-02D	P4892-02D	FD048805.D	22 Nov 2024 13:56		YP/AJ	Ok
10	P4892-02MS	WB-310-BOTMS	FD048806.D	22 Nov 2024 14:33	FD048804.D	YP/AJ	Ok,M
11	P4892-02MSD	WB-310-BOTMSD	FD048807.D	22 Nov 2024 15:09	FD048804.D!FD048806.D	YP/AJ	Ok,M
12	I.BLK	I.BLK	FD048808.D	22 Nov 2024 15:45		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048809.D	22 Nov 2024 16:21		YP/AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165151

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/20/2024
Matrix :	Water			**Extraction Start Time :**	08:28
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	11/20/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	16:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23988
Surrogate	1.0ML	100 PPM	PP23989
Fractionation Surrogate	1.0ML	100 PPM	PP23948
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	E3829
Baked Na2SO4	N/A	EP2562
Hexane	N/A	E3826
6N HCL	N/A	EP2517
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RP (Set 205)	AP-PEST-IP03.
16:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165151

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165151BL	PB165151BL	EPH	1000	<2	RUPESH	rajesh	2			SEP-09
PB165151BS	PB165151BS	EPH	1000	<2	RUPESH	rajesh	2			10
PB165151BSD	PB165151BSD	EPH	1000	<2	RUPESH	rajesh	2			11
P4892-04	WB-310-SW	EPH	1000	<2	RUPESH	rajesh	2	F		12

* **Extracts relinquished on the same date as received.**

P4892 8/15/1 8.21 EM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4892S **WorkList ID :** 185628 **Department :** Extraction **Date :** 11-20-2024 08:15:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-04	WB-310-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	M11	11/15/2024	NJEPH
P4892-04	WB-310-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E

957 of 1349

Date/Time 11/20/24 8:18
Raw Sample Received by: RS (Exp. Log)
Raw Sample Relinquished by: JD (SM)

Date/Time 11/20/24 8:35
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RS (Exp. Log)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165188

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/21/2024
Matrix :	Solid			**Extraction Start Time :**	08:35
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/21/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23988
Surrogate	1.0ML	100 PPM	PP23989
Fractionation Surrogate	1.0ML	100 PPM	PP23948
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	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Hexane	N/A	E3826
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 lot3 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/21/24	RP (2nd Lab)	Y.P.pest+PCB.
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165188

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 11/21/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165188BL	PB165188BL	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB165188BS	PB165188BS	EPH	30.01	N/A	ritesh	Evelyn	2			U5-1
PB165188BSD	PB165188BSD	EPH	30.02	N/A	ritesh	Evelyn	2			2
P4892-01	WB-310-TOP	EPH	30.04	N/A	ritesh	Evelyn	2			3
P4892-02	WB-310-BOT	EPH	30.02	N/A	ritesh	Evelyn	2			4
P4892-02DUP	WB-310-BOTDUP	EPH	30.05	N/A	ritesh	Evelyn	2			5
P4892-02MS	WB-310-BOTMS	EPH	30.03	N/A	ritesh	Evelyn	2			6
P4892-02MSD	WB-310-BOTMSD	EPH	30.06	N/A	ritesh	Evelyn	2			U1-1

* **Extracts relinquished on the same date as received.**

P4892 8:37

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4892nj **WorkList ID :** 185682 **Department :** Extraction **Date :** 11-21-2024 08:32:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-01	WB-310-TOP	Solid	EPH	Cool 4 deg C	PORT06	M11	11/15/2024	NJEPH
P4892-02	WB-310-BOT	Solid	EPH	Cool 4 deg C	PORT06	M11	11/15/2024	NJEPH

Date/Time 11/21/24 8:34
Raw Sample Received by: RJ (Lot 1a5)
Raw Sample Relinquished by: SM

Date/Time 11/21/24 8:55
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Lot 1a5)

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LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
			EPH	NJEPH		11/21/24	11/22/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
			EPH	NJEPH		11/21/24	11/22/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP Pesticide	8081B		11/20/24	11/22/24	
P4892-04	**WB-310-SW**	**WATER**			**11/15/24**			**11/15/24**
			PCB	8082A		11/20/24	11/20/24	
			EPH	NJEPH		11/20/24	11/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4892 **Order ID:** P4892

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: 0.000

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093216.D	1	11/20/24 12:00	11/22/24 10:27	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.6		30 (43) - 150 (140)	103%	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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/20/24
Client Sample ID:	PB165060TB	SDG No.:	P4892
Lab Sample ID:	PB165060TB	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
PL093197.D	1	11/20/24 12:00	11/21/24 11:02	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		30 (43) - 150 (140)	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		30 (77) - 150 (126)	105%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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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

QC SUMMARY

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

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.6	108		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
I.BLK-PL093191.D	PIBLK-PL093191.D	Decachlorobiphenyl	1	20	19.6	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.9	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.3	106		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
PB165164BL	PB165164BL	Decachlorobiphenyl	1	20	19.2	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.9	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.5	98		30 (77)	150 (126)
PB165164BS	PB165164BS	Decachlorobiphenyl	1	20	19.9	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.0	105		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	96		30 (77)	150 (126)
PB165060TB	PB165060TB	Decachlorobiphenyl	1	20	20.0	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.1	105		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.5	98		30 (77)	150 (126)
P4892-03MS	WB-310-BOTMS	Decachlorobiphenyl	1	20	18.3	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.3	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.6	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.4	92		30 (77)	150 (126)
P4892-03MSD	WB-310-BOTMSD	Decachlorobiphenyl	1	20	18.4	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.8	99		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.4	102		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.1	90		30 (77)	150 (126)
I.BLK-PL093210.D	PIBLK-PL093210.D	Decachlorobiphenyl	1	20	20.5	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.9	109		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.8	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
I.BLK-PL093213.D	PIBLK-PL093213.D	Decachlorobiphenyl	1	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	23.8	119		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	24.9	124		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	23.5	118		30 (77)	150 (126)
P4892-03	WB-310-BOT	Decachlorobiphenyl	1	20	18.4	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.9	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.6	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.4	112		30 (77)	150 (126)
I.BLK-PL093227.D	PIBLK-PL093227.D	Decachlorobiphenyl	1	20	18.4	92		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4892

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-PL093227.D	PIBLK-PL093227.D	Tetrachloro-m-xylene	1	20	21.1	105		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.9	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.9	99		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL093200.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-310-BOTMS**											
P4892-03MS	gamma-BHC (Lindane)	5	0	5.40	ug/L	108				30 (60)	150 (152)	
	Heptachlor	5	0	5.50	ug/L	110				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.60	ug/L	112				30 (77)	150 (143)	
	Endrin	5	0	5.70	ug/L	114				30 (76)	150 (144)	
	Methoxychlor	5	0	5.40	ug/L	108				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL093201.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-310-BOTMSD**											
P4892-03MSD	gamma-BHC (Lindane)	5	0	5.30	ug/L	106		2		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.40	ug/L	108		2		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.50	ug/L	110		2		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.70	ug/L	114		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.30	ug/L	106		2		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL093196.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165164BS	gamma-BHC (Lindane)	0.5	0.50	ug/L	100				40 (82)	140 (129)	
	Heptachlor	0.5	0.52	ug/L	104				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	106				40 (81)	140 (124)	
	Endrin	0.5	0.49	ug/L	99				40 (81)	140 (128)	
	Methoxychlor	0.5	0.50	ug/L	100				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165164BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: PB165164BL Lab File ID: PL093195.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/20/2024

Date Analyzed (1): 11/21/2024 Date Analyzed (2): 11/21/2024

Time Analyzed (1): 10:35 Time Analyzed (2): 10:35

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165164BS	PB165164BS	PL093196.D	11/21/2024	11/21/2024
PB165060TB	PB165060TB	PL093197.D	11/21/2024	11/21/2024
WB-310-BOTMS	P4892-03MS	PL093200.D	11/21/2024	11/21/2024
WB-310-BOTMSD	P4892-03MSD	PL093201.D	11/21/2024	11/21/2024
WB-310-BOT	P4892-03	PL093216.D	11/22/2024	11/22/2024

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165164BL	SDG No.:	P4892
Lab Sample ID:	PB165164BL	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
PL093195.D	1	11/20/24 12:00	11/21/24 10:35	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.9		30 (43) - 150 (140)	110%	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
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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
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/21/24
Client Sample ID:	PIBLK-PL093191.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PL093191.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
PL093191.D	1		11/21/24	PL112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.3		30 (43) - 150 (140)	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		30 (77) - 150 (126)	110%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/21/24
Client Sample ID:	PIBLK-PL093210.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PL093210.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
PL093210.D	1		11/21/24	PL112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.8		30 (43) - 150 (140)	114%	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:	11/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/22/24
Client Sample ID:	PIBLK-PL093213.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PL093213.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
PL093213.D	1		11/22/24	PL112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.9		30 (43) - 150 (140)	124%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.8		30 (77) - 150 (126)	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:	11/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/22/24
Client Sample ID:	PIBLK-PL093227.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PL093227.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
PL093227.D	1		11/22/24	PL112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.9		30 (43) - 150 (140)	100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165164BS	SDG No.:	P4892
Lab Sample ID:	PB165164BS	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
PL093196.D	1	11/20/24 12:00	11/21/24 10:48	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.50		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.52		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0090	0.050	ug/L
72-20-8	Endrin	0.49		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.50		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.7		30 (43) - 150 (140)	109%	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-03MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093200.D	1	11/20/24 12:00	11/21/24 11:41	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.40		0.049	0.50	ug/L
76-44-8	Heptachlor	5.50		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.090	0.50	ug/L
72-20-8	Endrin	5.70		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.6		30 (43) - 150 (140)	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		30 (77) - 150 (126)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-03MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093201.D	1	11/20/24 12:00	11/21/24 11:54	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.30		0.049	0.50	ug/L
76-44-8	Heptachlor	5.40		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.090	0.50	ug/L
72-20-8	Endrin	5.70		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.30		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		30 (43) - 150 (140)	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		30 (77) - 150 (126)	99%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

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

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Endrin	6.58	6.58	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.68	5.69	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

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

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.62	6.62	6.62	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

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

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

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

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.70	4.60	4.80	106996000
		2	5.23	5.13	5.33	110397000
		3	5.94	5.84	6.04	372388000
		4	6.02	5.92	6.12	458405000
		5	6.87	6.77	6.97	92161100
Toxaphene	500	1	6.24	6.14	6.34	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.78	3.68	3.88	105092000
		2	4.35	4.25	4.45	120641000
		3	4.98	4.88	5.08	361048000
		4	5.05	4.95	5.15	346821000
		5	5.94	5.84	6.04	124060000
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/21/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 09:51 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	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.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/21/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 09:51 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.01
Tetrachloro-m-xylene	2.77	2.78	2.68	2.88	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/21/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093193.D **Time Analyzed:** 09:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.057	8.954	9.154	45.380	50.000	-9.2
Endrin	6.572	6.474	6.674	43.030	50.000	-13.9
gamma-BHC (Lindane)	4.326	4.228	4.428	49.920	50.000	-0.2
Heptachlor	4.914	4.817	5.017	47.490	50.000	-5.0
Heptachlor epoxide	5.683	5.584	5.784	47.140	50.000	-5.7
Methoxychlor	7.500	7.399	7.599	41.800	50.000	-16.4
Tetrachloro-m-xylene	3.537	3.440	3.640	50.810	50.000	1.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/21/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093193.D **Time Analyzed:** 09:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.915	7.816	8.016	50.970	50.000	1.9
Endrin	5.638	5.541	5.741	50.120	50.000	0.2
gamma-BHC (Lindane)	3.607	3.511	3.711	52.430	50.000	4.9
Heptachlor	3.946	3.849	4.049	50.860	50.000	1.7
Heptachlor epoxide	4.728	4.632	4.832	52.370	50.000	4.7
Methoxychlor	6.613	6.515	6.715	47.990	50.000	-4.0
Tetrachloro-m-xylene	2.774	2.678	2.878	51.270	50.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/21/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 15:07 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.01
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.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/21/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 15:07 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.92	7.82	8.02	0.01
Tetrachloro-m-xylene	2.77	2.78	2.68	2.88	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/21/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093211.D **Time Analyzed:** 15:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.058	8.954	9.154	46.110	50.000	-7.8
Endrin	6.572	6.474	6.674	44.290	50.000	-11.4
gamma-BHC (Lindane)	4.325	4.228	4.428	50.530	50.000	1.1
Heptachlor	4.914	4.817	5.017	47.570	50.000	-4.9
Heptachlor epoxide	5.682	5.584	5.784	47.490	50.000	-5.0
Methoxychlor	7.500	7.399	7.599	42.470	50.000	-15.1
Tetrachloro-m-xylene	3.536	3.440	3.640	51.100	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/21/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093211.D **Time Analyzed:** 15:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.914	7.816	8.016	51.630	50.000	3.3
Endrin	5.638	5.541	5.741	50.460	50.000	0.9
gamma-BHC (Lindane)	3.607	3.511	3.711	52.440	50.000	4.9
Heptachlor	3.946	3.849	4.049	50.770	50.000	1.5
Heptachlor epoxide	4.728	4.632	4.832	52.850	50.000	5.7
Methoxychlor	6.612	6.515	6.715	48.280	50.000	-3.4
Tetrachloro-m-xylene	2.774	2.678	2.878	51.250	50.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 10:03 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	0.00
Endrin	6.58	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.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 10:03 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/22/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093215.D **Time Analyzed:** 10:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.062	8.954	9.154	44.180	50.000	-11.6
Endrin	6.575	6.474	6.674	42.370	50.000	-15.3
gamma-BHC (Lindane)	4.327	4.228	4.428	48.930	50.000	-2.1
Heptachlor	4.916	4.817	5.017	46.560	50.000	-6.9
Heptachlor epoxide	5.685	5.584	5.784	46.450	50.000	-7.1
Methoxychlor	7.503	7.399	7.599	41.130	50.000	-17.7
Tetrachloro-m-xylene	3.538	3.440	3.640	49.870	50.000	-0.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/22/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093215.D **Time Analyzed:** 10:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.917	7.816	8.016	49.590	50.000	-0.8
Endrin	5.640	5.541	5.741	49.080	50.000	-1.8
gamma-BHC (Lindane)	3.608	3.511	3.711	51.140	50.000	2.3
Heptachlor	3.947	3.849	4.049	49.890	50.000	-0.2
Heptachlor epoxide	4.730	4.632	4.832	51.160	50.000	2.3
Methoxychlor	6.615	6.515	6.715	47.330	50.000	-5.3
Tetrachloro-m-xylene	2.775	2.678	2.878	49.800	50.000	-0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 16:14 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.58	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.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 16:14 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.77	2.78	2.68	2.88	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/22/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093228.D **Time Analyzed:** 16:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.063	8.954	9.154	43.200	50.000	-13.6
Endrin	6.575	6.474	6.674	47.400	50.000	-5.2
gamma-BHC (Lindane)	4.328	4.228	4.428	50.720	50.000	1.4
Heptachlor	4.917	4.817	5.017	49.570	50.000	-0.9
Heptachlor epoxide	5.684	5.584	5.784	47.450	50.000	-5.1
Methoxychlor	7.504	7.399	7.599	45.380	50.000	-9.2
Tetrachloro-m-xylene	3.539	3.440	3.640	50.980	50.000	2.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/22/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093228.D **Time Analyzed:** 16:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.917	7.816	8.016	49.440	50.000	-1.1
Endrin	5.639	5.541	5.741	54.970	50.000	9.9
gamma-BHC (Lindane)	3.607	3.511	3.711	52.030	50.000	4.1
Heptachlor	3.946	3.849	4.049	52.950	50.000	5.9
Heptachlor epoxide	4.729	4.632	4.832	53.710	50.000	7.4
Methoxychlor	6.614	6.515	6.715	53.380	50.000	6.8
Tetrachloro-m-xylene	2.774	2.678	2.878	50.510	50.000	1.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093192.D **Date Analyzed:** 11/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.070	20.000	-4.7
Tetrachloro-m-xylene	3.537	3.490	3.590	22.160	20.000	10.8
alpha-BHC	3.993	3.940	4.040	11.320	10.000	13.2
beta-BHC	4.524	4.470	4.570	11.310	10.000	13.1
gamma-BHC (Lindane)	4.325	4.270	4.380	11.050	10.000	10.5
Endrin	6.574	6.500	6.640	42.510	50.000	-15.0
4,4'-DDT	7.024	6.950	7.090	86.170	100.000	-13.8
Methoxychlor	7.501	7.430	7.570	198.410	250.000	-20.6

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093192.D **Date Analyzed:** 11/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.915	7.810	8.020	21.550	20.000	7.8
Tetrachloro-m-xylene	2.774	2.720	2.820	21.310	20.000	6.6
alpha-BHC	3.277	3.230	3.330	10.230	10.000	2.3
beta-BHC	3.907	3.860	3.960	11.220	10.000	12.2
gamma-BHC (Lindane)	3.607	3.560	3.660	9.850	10.000	-1.5
Endrin	5.639	5.570	5.710	49.050	50.000	-1.9
4,4'-DDT	6.038	5.970	6.110	105.860	100.000	5.9
Methoxychlor	6.613	6.540	6.680	241.900	250.000	-3.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093214.D **Date Analyzed:** 11/22/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:37

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.061	8.960	9.160	21.190	20.000	6.0
Tetrachloro-m-xylene	3.538	3.490	3.590	23.950	20.000	19.8
alpha-BHC	3.994	3.940	4.040	12.240	10.000	22.4
beta-BHC	4.525	4.470	4.580	12.340	10.000	23.4
gamma-BHC (Lindane)	4.326	4.280	4.380	11.780	10.000	17.8
Endrin	6.575	6.500	6.650	45.110	50.000	-9.8
4,4'-DDT	7.027	6.960	7.100	91.460	100.000	-8.5
Methoxychlor	7.504	7.430	7.570	211.050	250.000	-15.6

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093214.D **Date Analyzed:** 11/22/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:37

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	23.580	20.000	17.9
Tetrachloro-m-xylene	2.775	2.720	2.830	23.170	20.000	15.9
alpha-BHC	3.278	3.230	3.330	11.220	10.000	12.2
beta-BHC	3.908	3.860	3.960	12.300	10.000	23.0
gamma-BHC (Lindane)	3.608	3.560	3.660	10.820	10.000	8.2
Endrin	5.640	5.570	5.710	54.270	50.000	8.5
4,4'-DDT	6.039	5.970	6.110	116.040	100.000	16.0
Methoxychlor	6.615	6.540	6.690	262.500	250.000	5.0

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Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
I.BLK	I.BLK	11/21/2024	09:25	PL093191.D	9.06	3.54
PEM	PEM	11/21/2024	09:38	PL093192.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/21/2024	09:51	PL093193.D	9.06	3.54
PB165164BL	PB165164BL	11/21/2024	10:35	PL093195.D	9.06	3.54
PB165164BS	PB165164BS	11/21/2024	10:48	PL093196.D	9.06	3.54
PB165060TB	PB165060TB	11/21/2024	11:02	PL093197.D	9.06	3.54
WB-310-BOTMS	P4892-03MS	11/21/2024	11:41	PL093200.D	9.06	3.54
WB-310-BOTMSD	P4892-03MSD	11/21/2024	11:54	PL093201.D	9.06	3.54
I.BLK	I.BLK	11/21/2024	14:53	PL093210.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/21/2024	15:07	PL093211.D	9.06	3.54
I.BLK	I.BLK	11/22/2024	09:24	PL093213.D	9.07	3.54
PEM	PEM	11/22/2024	09:37	PL093214.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/22/2024	10:03	PL093215.D	9.06	3.54
WB-310-BOT	P4892-03	11/22/2024	10:27	PL093216.D	9.07	3.55
I.BLK	I.BLK	11/22/2024	15:46	PL093227.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/22/2024	16:14	PL093228.D	9.06	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
I.BLK	I.BLK	11/21/2024	09:25	PL093191.D	7.92	2.78
PEM	PEM	11/21/2024	09:38	PL093192.D	7.92	2.77
PSTDCCC050	PSTDCCC050	11/21/2024	09:51	PL093193.D	7.92	2.77
PB165164BL	PB165164BL	11/21/2024	10:35	PL093195.D	7.92	2.77
PB165164BS	PB165164BS	11/21/2024	10:48	PL093196.D	7.92	2.77
PB165060TB	PB165060TB	11/21/2024	11:02	PL093197.D	7.91	2.77
WB-310-BOTMS	P4892-03MS	11/21/2024	11:41	PL093200.D	7.91	2.77
WB-310-BOTMSD	P4892-03MSD	11/21/2024	11:54	PL093201.D	7.91	2.77
I.BLK	I.BLK	11/21/2024	14:53	PL093210.D	7.92	2.77
PSTDCCC050	PSTDCCC050	11/21/2024	15:07	PL093211.D	7.91	2.77
I.BLK	I.BLK	11/22/2024	09:24	PL093213.D	7.92	2.78
PEM	PEM	11/22/2024	09:37	PL093214.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/22/2024	10:03	PL093215.D	7.92	2.78
WB-310-BOT	P4892-03	11/22/2024	10:27	PL093216.D	7.92	2.78
I.BLK	I.BLK	11/22/2024	15:46	PL093227.D	7.92	2.77
PSTDCCC050	PSTDCCC050	11/22/2024	16:14	PL093228.D	7.92	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165164BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: PB165164BS **Date(s) Analyzed:** 11/21/2024 11/21/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	0.43	14
	2	6.61	6.56	6.66	0.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.48	4.1
	2	3.61	3.56	3.66	0.50	
Heptachlor	1	4.91	4.86	4.96	0.49	6.3
	2	3.95	3.90	4.00	0.52	
Heptachlor epoxide	1	5.68	5.63	5.73	0.47	11.6
	2	4.73	4.68	4.78	0.53	
Endrin	1	6.57	6.52	6.62	0.42	16.5
	2	5.64	5.59	5.69	0.49	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: P4892-03MS **Date(s) Analyzed:** 11/21/2024 11/21/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	4.70	13.9
	2	6.61	6.56	6.66	5.40	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	5.00	7.7
	2	3.61	3.56	3.66	5.40	
Heptachlor	1	4.91	4.86	4.96	5.10	7.5
	2	3.95	3.90	4.00	5.50	
Heptachlor epoxide	1	5.68	5.63	5.73	5.00	11.3
	2	4.73	4.68	4.78	5.60	
Endrin	1	6.57	6.52	6.62	4.80	17.1
	2	5.64	5.59	5.69	5.70	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: P4892-03MSD **Date(s) Analyzed:** 11/21/2024 11/21/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	4.60	14.1
	2	6.61	6.56	6.66	5.30	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	5.00	5.8
	2	3.61	3.56	3.66	5.30	
Heptachlor	1	4.91	4.86	4.96	5.10	5.7
	2	3.95	3.90	4.00	5.40	
Heptachlor epoxide	1	5.68	5.63	5.73	5.00	9.5
	2	4.73	4.68	4.78	5.50	
Endrin	1	6.57	6.52	6.62	4.80	17.1
	2	5.64	5.59	5.69	5.70	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112224\
Data File : PL093216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 10:27
Operator : AR\AJ
Sample : P4892-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-310-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:21:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.545	2.775	53751504	60811393	21.937	22.348
28)	SA Decachlor...	9.070	7.921	35370859	56258981	18.379	20.613
	Target Compounds						

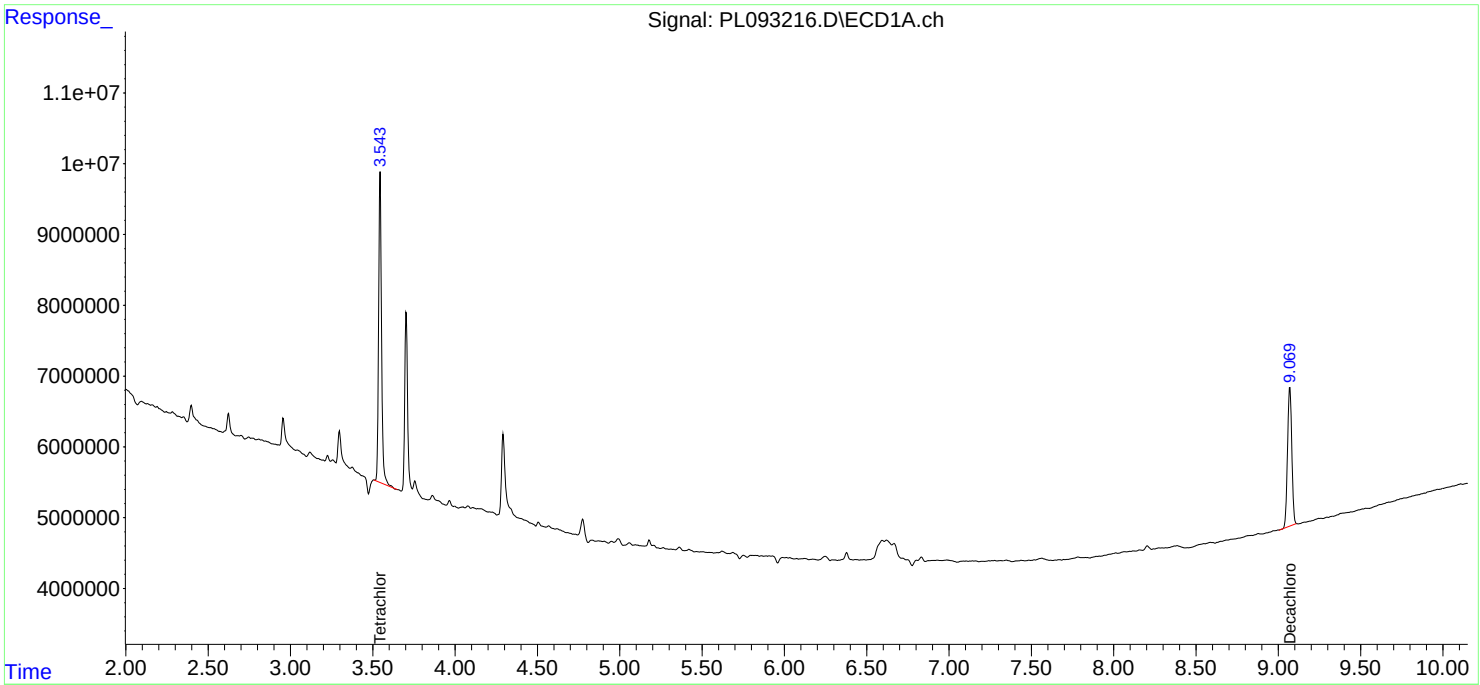
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

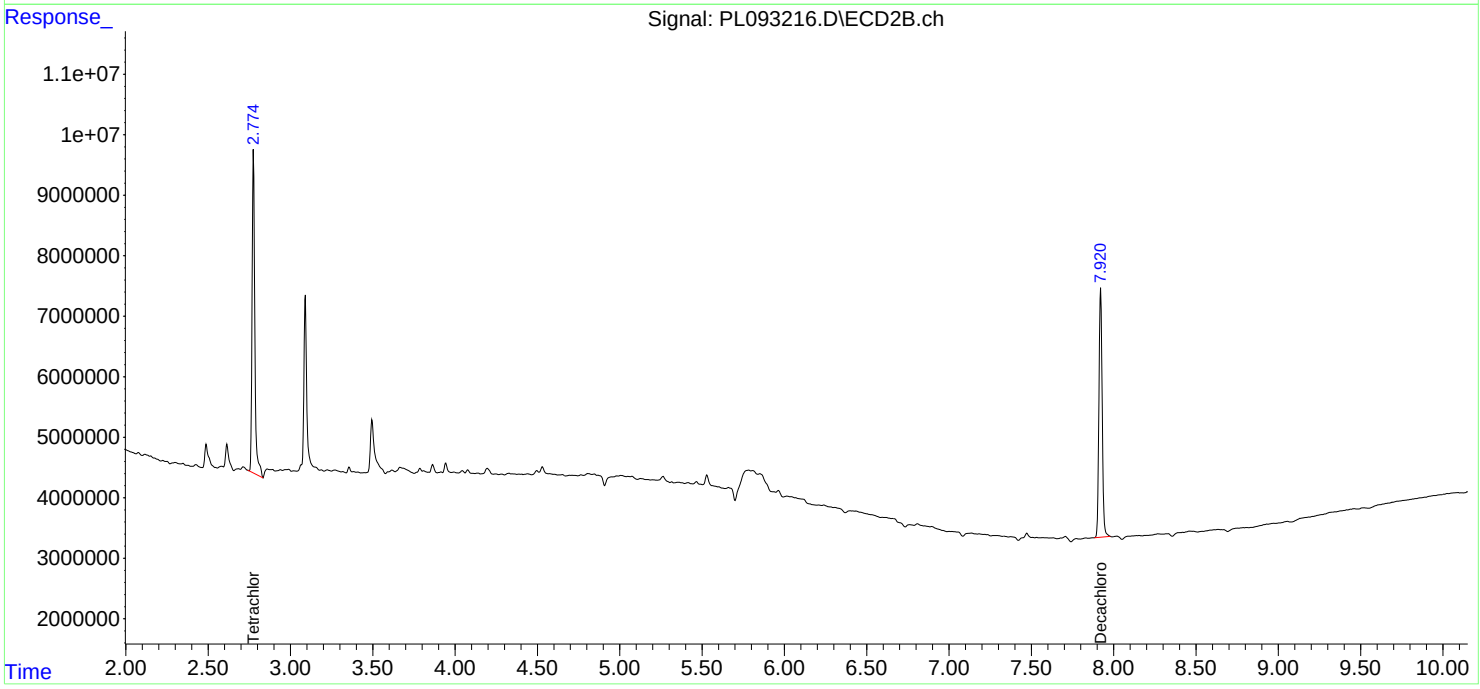
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112224\
Data File : PL093216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 10:27
Operator : AR\AJ
Sample : P4892-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-310-BOT

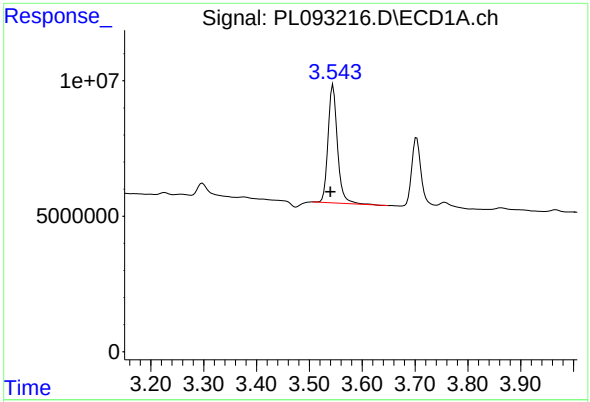
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:21:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



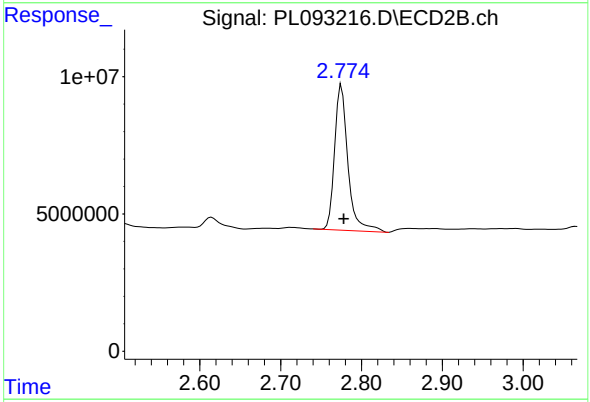


Instrument :
ECD_L
ClientSampleId :
WB-310-BOT



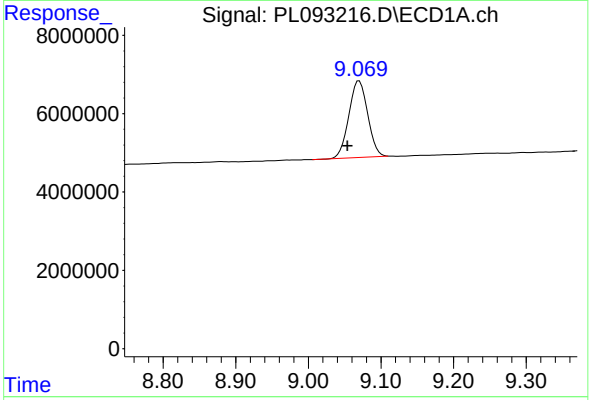
#1 Tetrachloro-m-xylene

R.T.: 3.545 min
Delta R.T.: 0.005 min
Response: 53751504
Conc: 21.94 ng/ml



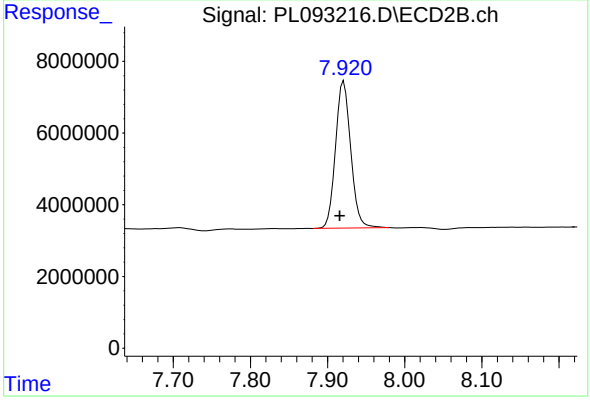
#1 Tetrachloro-m-xylene

R.T.: 2.775 min
Delta R.T.: -0.002 min
Response: 60811393
Conc: 22.35 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.070 min
Delta R.T.: 0.016 min
Response: 35370859
Conc: 18.38 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: 0.005 min
Response: 56258981
Conc: 20.61 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:02
Operator : AR\AJ
Sample : PB165060TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165060TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:32:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.536	2.774	51579699	53165883	21.051	19.538
28)	SA Decachlor...	9.056	7.914	38506083	60007031	20.008	21.987
	Target Compounds						

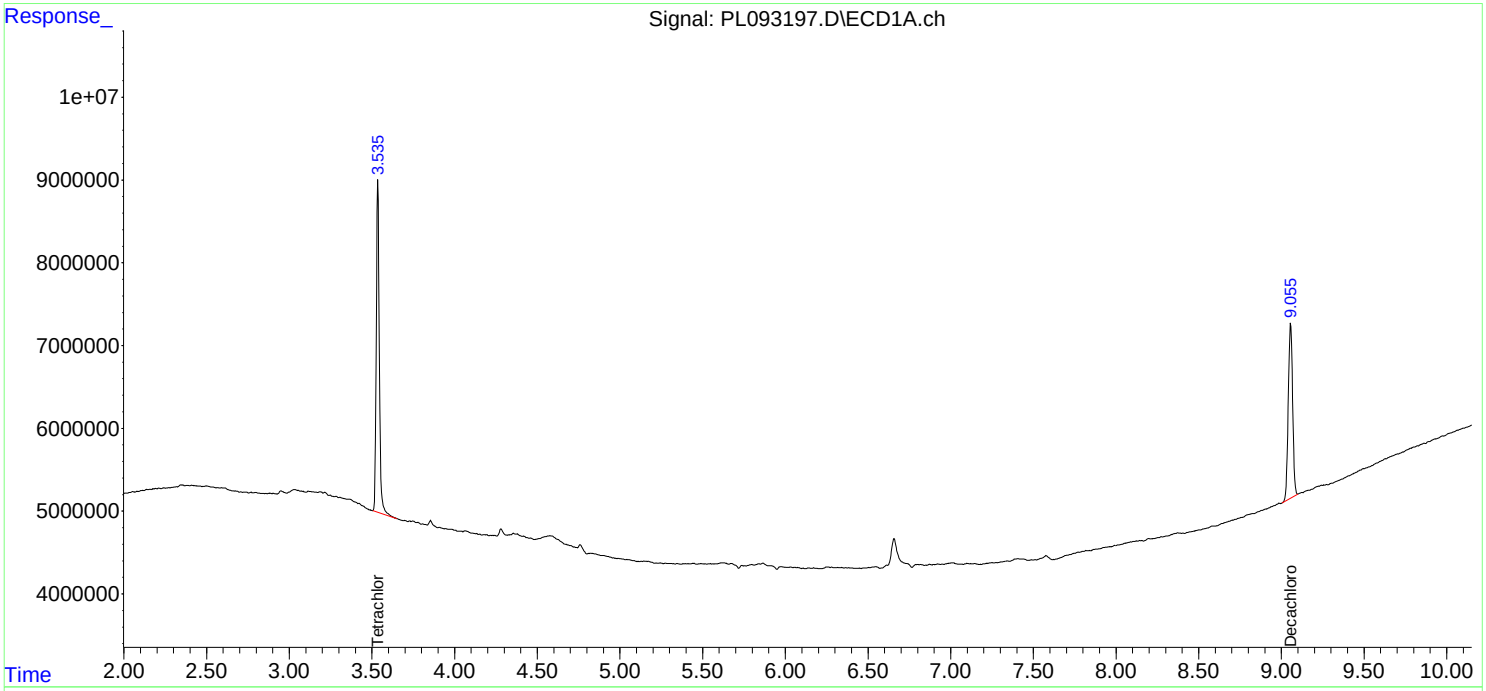
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

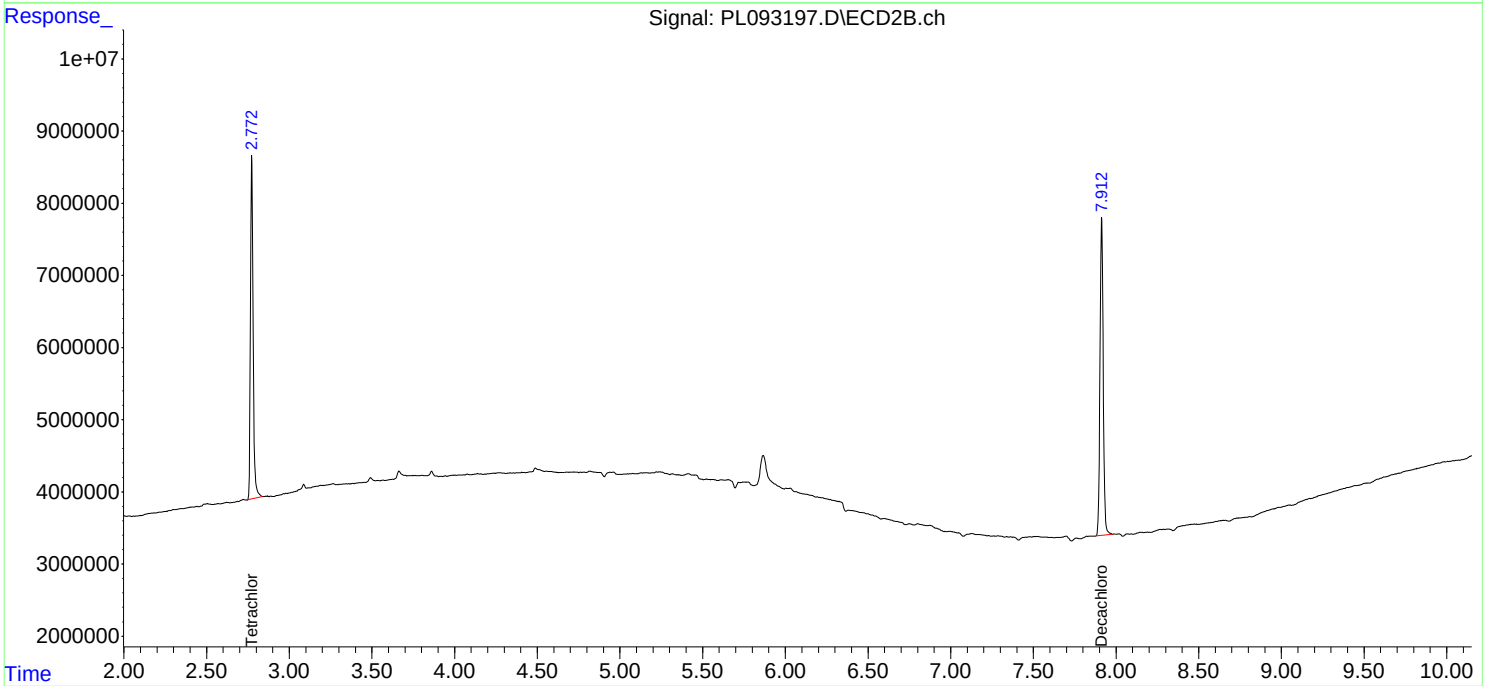
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:02
Operator : AR\AJ
Sample : PB165060TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

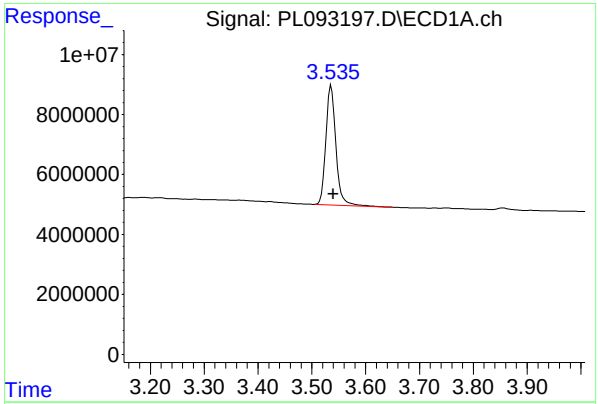
Instrument :
ECD_L
ClientSampleId :
PB165060TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:32:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



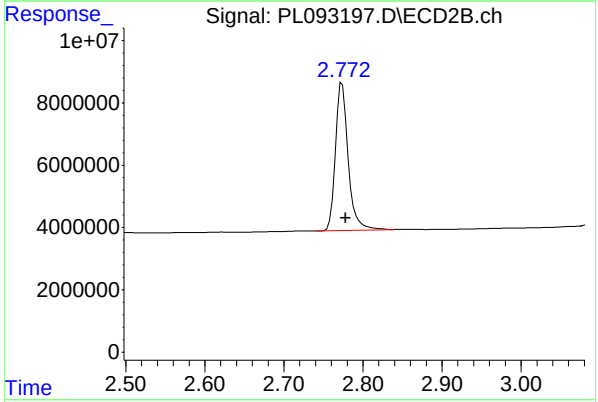




#1 Tetrachloro-m-xylene

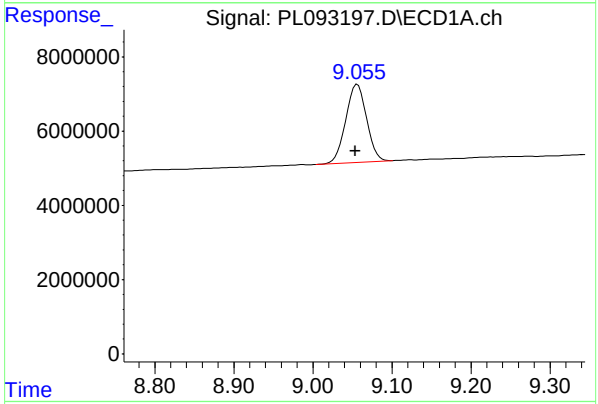
R.T.: 3.536 min
Delta R.T.: -0.004 min
Response: 51579699
Conc: 21.05 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB165060TB



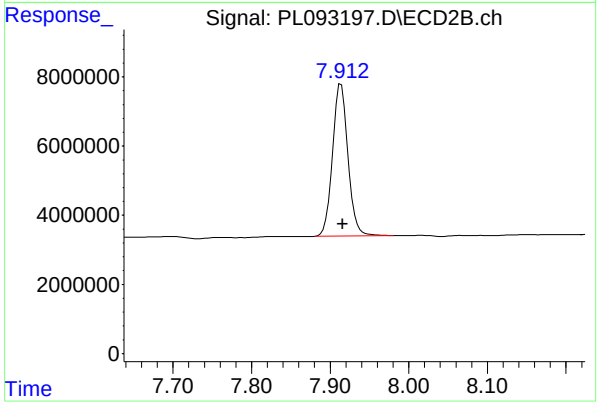
#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 53165883
Conc: 19.54 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 38506083
Conc: 20.01 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.914 min
Delta R.T.: -0.002 min
Response: 60007031
Conc: 21.99 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:35
Operator : AR\AJ
Sample : PB165164BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165164BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:30:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.537	2.774	50580812	53181223	20.643	19.544
28)	SA Decachlor...	9.058	7.915	37017425	59811418	19.234	21.915
	Target Compounds						

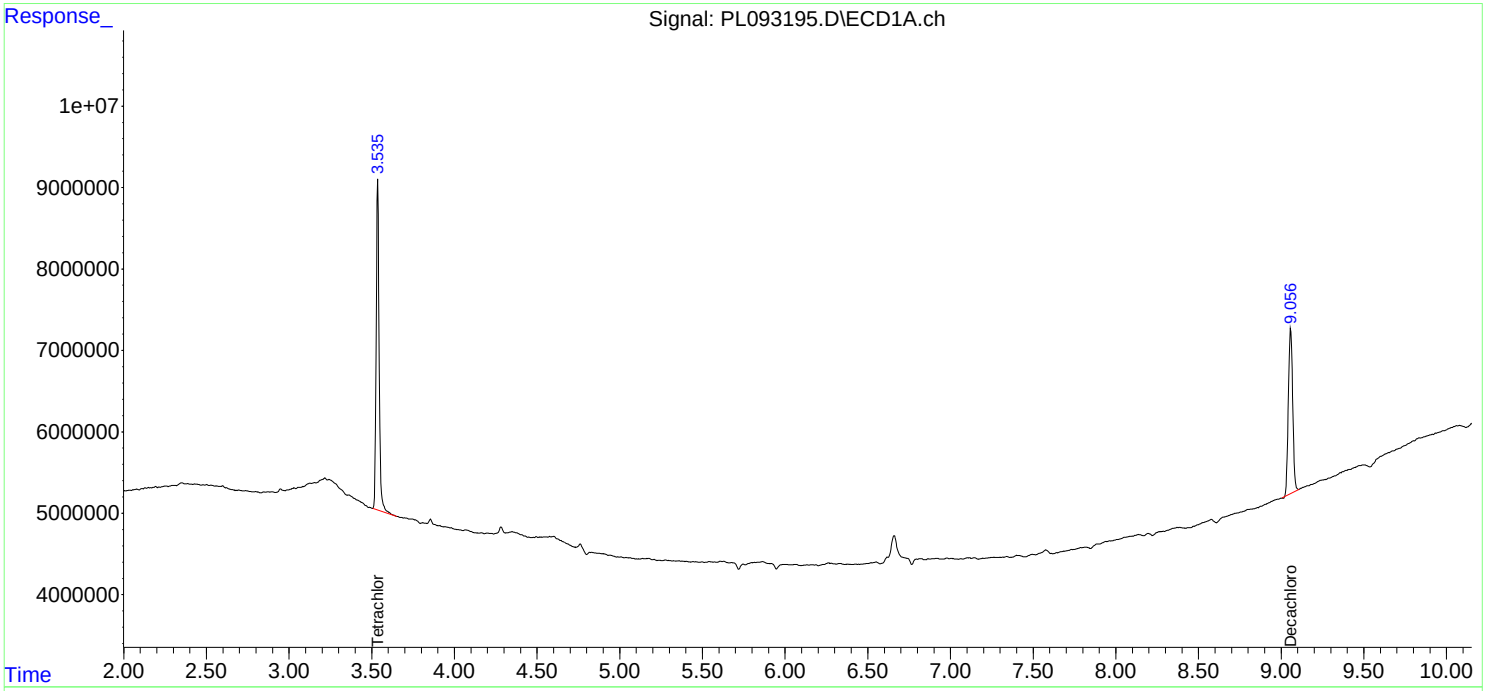
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

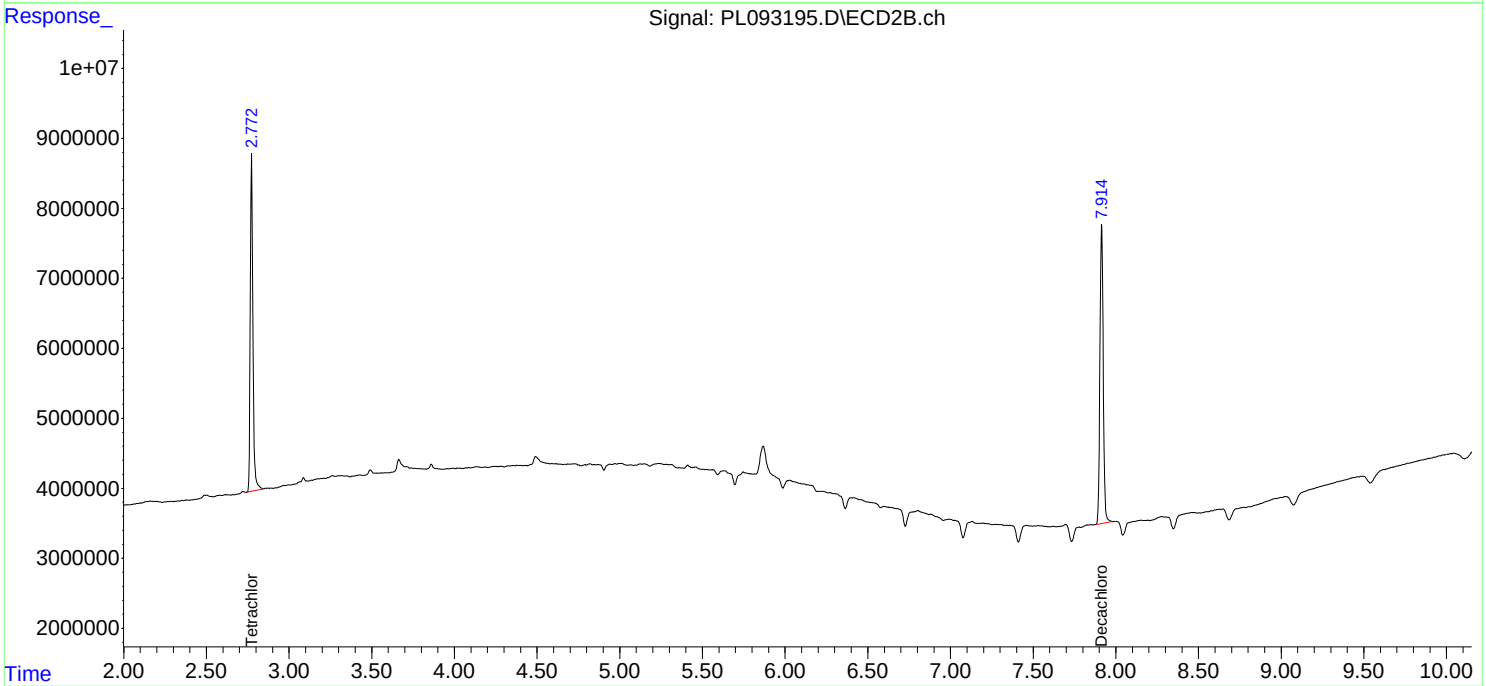
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:35
Operator : AR\AJ
Sample : PB165164BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165164BL

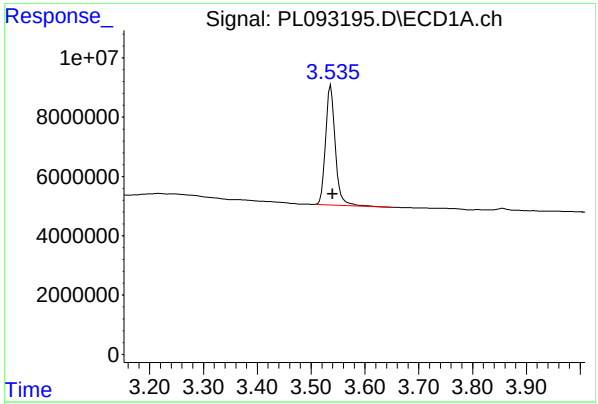
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:30:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



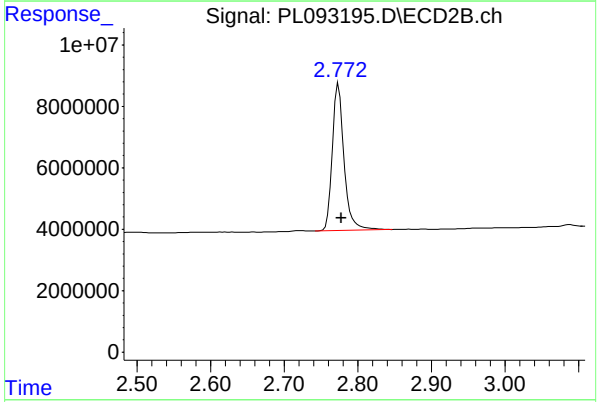


Instrument :
ECD_L
ClientSampleId :
PB165164BL



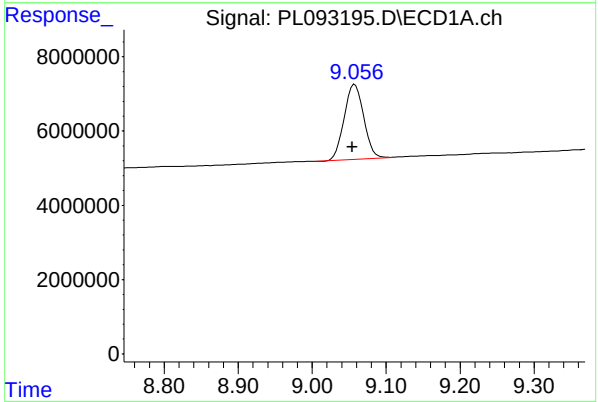
#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: -0.003 min
Response: 50580812
Conc: 20.64 ng/ml



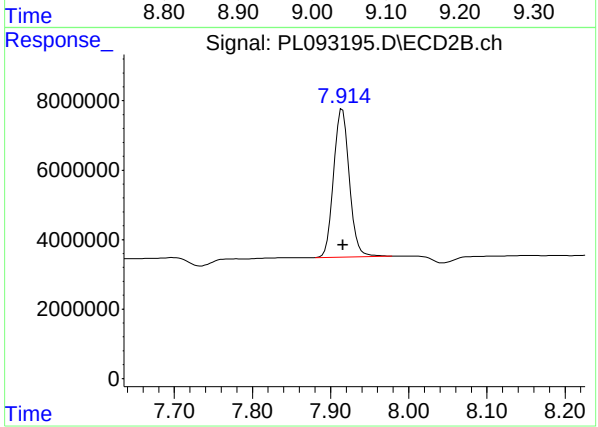
#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 53181223
Conc: 19.54 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.004 min
Response: 37017425
Conc: 19.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 59811418
Conc: 21.92 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:48
Operator : AR\AJ
Sample : PB165164BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165164BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.536	2.774	51536957	52101821	21.033	19.147
28)	SA	Decachlor...	9.056	7.915	38265125	59341842	19.883	21.743
		Target Compounds						
2)	A	alpha-BHC	3.993	3.277	167.3E6	201.3E6	49.321	50.453
3)	MA	gamma-BHC...	4.326	3.607	156.7E6	193.3E6	48.084	50.090
4)	MA	Heptachlor	4.914	3.946	146.6E6	196.3E6	48.811	52.014
5)	MB	Aldrin	5.255	4.226	140.7E6	188.6E6	46.891m	51.526
6)	B	beta-BHC	4.524	3.907	71956913	85705144	49.781	52.061
7)	B	delta-BHC	4.771	4.136	126.8E6	162.0E6	40.508	42.149
8)	B	Heptachlo...	5.683	4.728	130.6E6	177.4E6	47.278	53.105
9)	A	Endosulfan I	6.069	5.099	121.2E6	168.3E6	48.461	55.132
10)	B	gamma-Chl...	5.939	4.979	130.1E6	185.3E6	48.902	55.109
11)	B	alpha-Chl...	6.018	5.043	129.3E6	181.7E6	48.843	54.636
12)	B	4,4'-DDE	6.192	5.231	118.7E6	181.1E6	50.112	56.208
13)	MA	Dieldrin	6.344	5.363	128.4E6	184.7E6	48.713	55.297
14)	MA	Endrin	6.574	5.639	95140246	142.7E6	41.789	49.317
15)	B	Endosulfa...	6.794	5.934	113.0E6	162.0E6	47.420	57.184
16)	A	4,4'-DDD	6.710	5.787	97876341	149.7E6	50.990	60.102
17)	MA	4,4'-DDT	7.024	6.037	95634392	135.0E6	46.206	50.335
18)	B	Endrin al...	6.924	6.113	93811467	131.2E6	49.954	56.883
19)	B	Endosulfa...	7.159	6.337	100.8E6	144.9E6	46.429	53.719
20)	A	Methoxychlor	7.500	6.613	49326996	71054973	43.269	49.757
21)	B	Endrin ke...	7.644	6.842	121.8E6	182.5E6	50.259	59.485
22)		Mirex	8.118	7.023	86775468	129.7E6	43.788	49.715

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

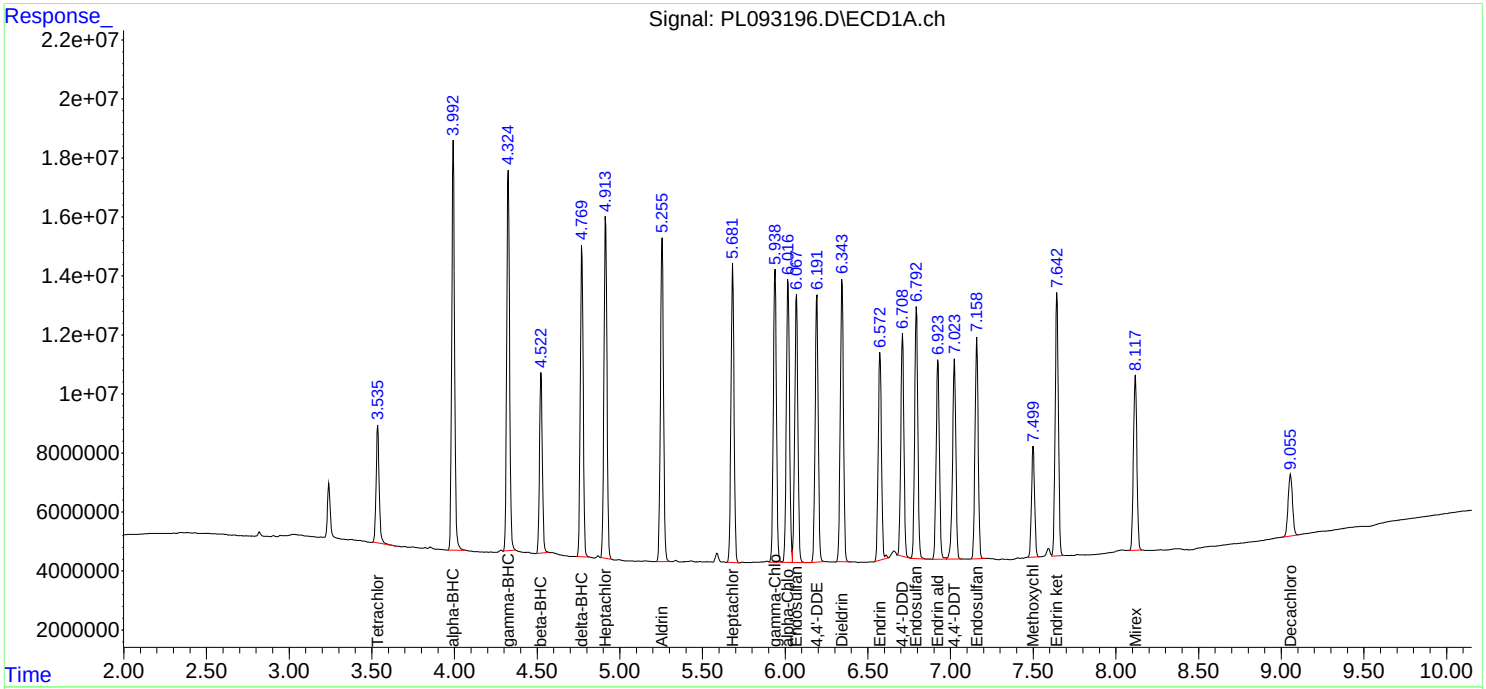
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:48
Operator : AR\AJ
Sample : PB165164BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

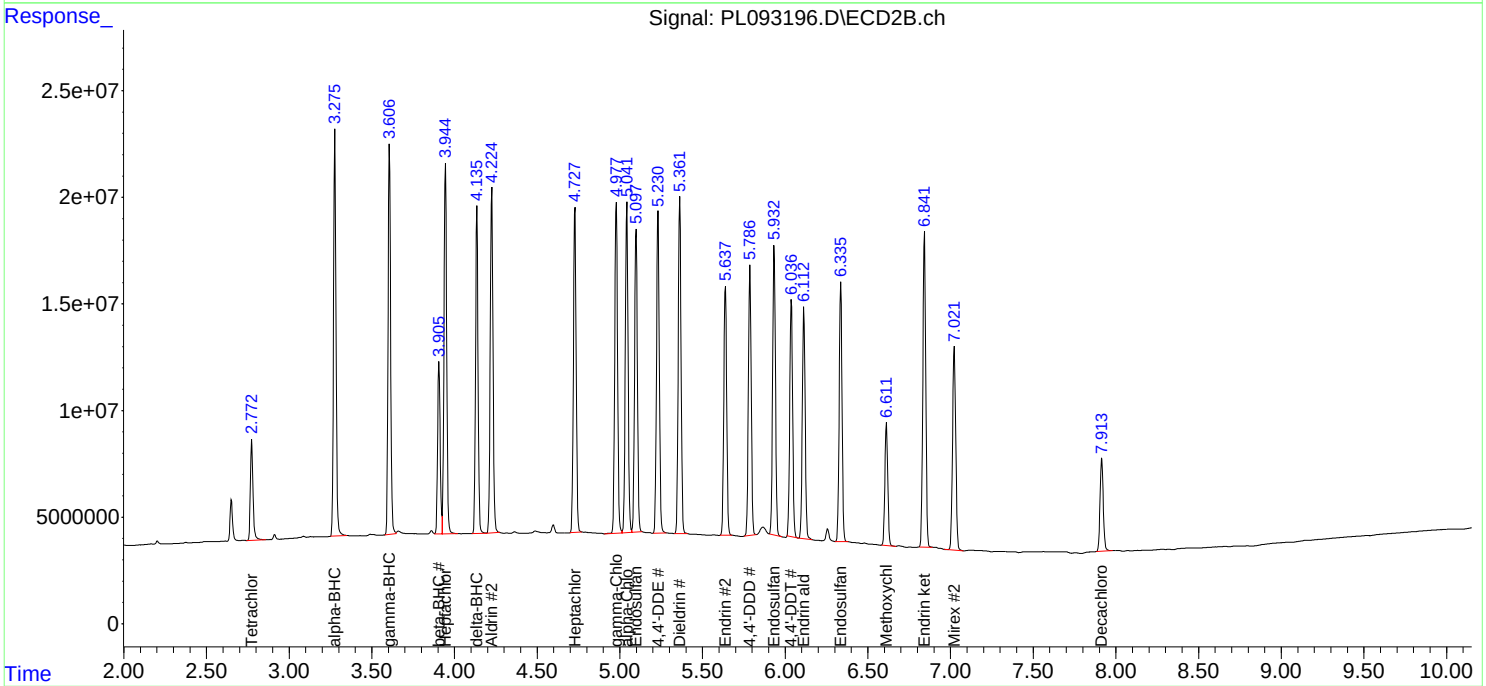
Instrument :
ECD_L
ClientSampleId :
PB165164BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093200.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:41
Operator : AR\AJ
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:35:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.536	2.773	49750651	49942483	20.304	18.353m
28)	SA Decachlor...	9.055	7.914	35238679	56205113	18.310	20.594
	Target Compounds						
2)	A alpha-BHC	3.993	3.277	177.1E6	215.7E6	52.211	54.055
3)	MA gamma-BHC...	4.324	3.607	162.6E6	207.2E6	49.869m	53.679
4)	MA Heptachlor	4.914	3.946	152.2E6	206.3E6	50.680	54.672
5)	MB Aldrin	5.255	4.225	144.6E6	197.9E6	48.173m	54.080
6)	B beta-BHC	4.523	3.907	73919864	90623219	51.139	55.048
7)	B delta-BHC	4.770	4.136	148.3E6	172.4E6	47.391	44.869
8)	B Heptachlo...	5.682	4.728	138.3E6	185.7E6	50.081	55.578
9)	A Endosulfan I	6.068	5.098	127.4E6	177.7E6	50.924	58.217
10)	B gamma-Chl...	5.938	4.979	134.6E6	201.8E6	50.608	60.018
11)	B alpha-Chl...	6.017	5.042	135.6E6	193.1E6	51.206	58.059
12)	B 4,4'-DDE	6.191	5.231	125.2E6	190.6E6	52.834	59.150
13)	MA Dieldrin	6.343	5.363	135.9E6	194.2E6	51.577	58.132
14)	MA Endrin	6.573	5.638	108.5E6	165.5E6	47.653	57.214
15)	B Endosulfa...	6.793	5.933	119.9E6	171.9E6	50.303	60.671
16)	A 4,4'-DDD	6.709	5.787	103.0E6	155.8E6	53.639	62.561
17)	MA 4,4'-DDT	7.023	6.037	104.8E6	149.0E6	50.627	55.540
18)	B Endrin al...	6.923	6.112	95294159	131.3E6	50.743	56.928
19)	B Endosulfa...	7.158	6.335	106.2E6	154.4E6	48.934	57.259
20)	A Methoxychlor	7.500	6.612	54129506	76928367	47.482	53.870
21)	B Endrin ke...	7.643	6.841	126.5E6	185.4E6	52.198	60.424
22)	Mirex	8.117	7.022	90981032	139.1E6	45.911	53.323

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

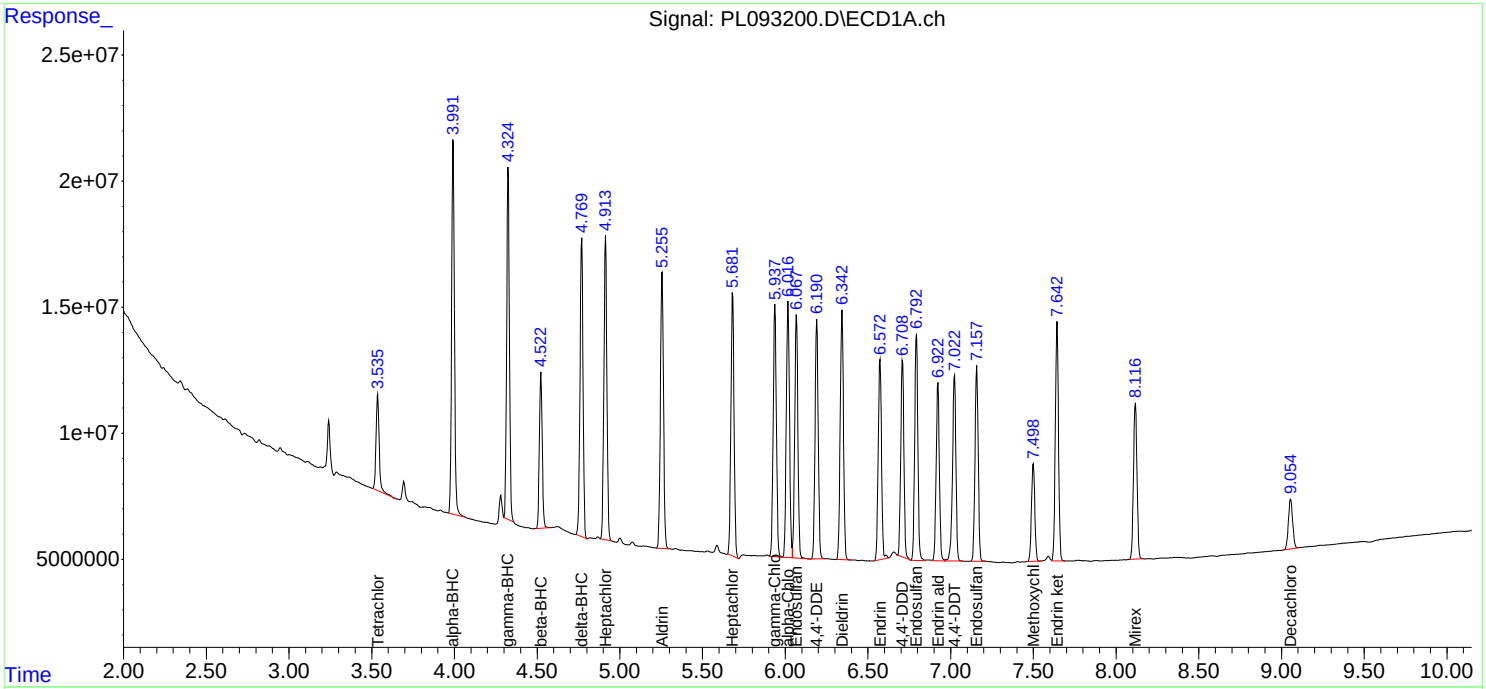
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093200.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:41
Operator : AR\AJ
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

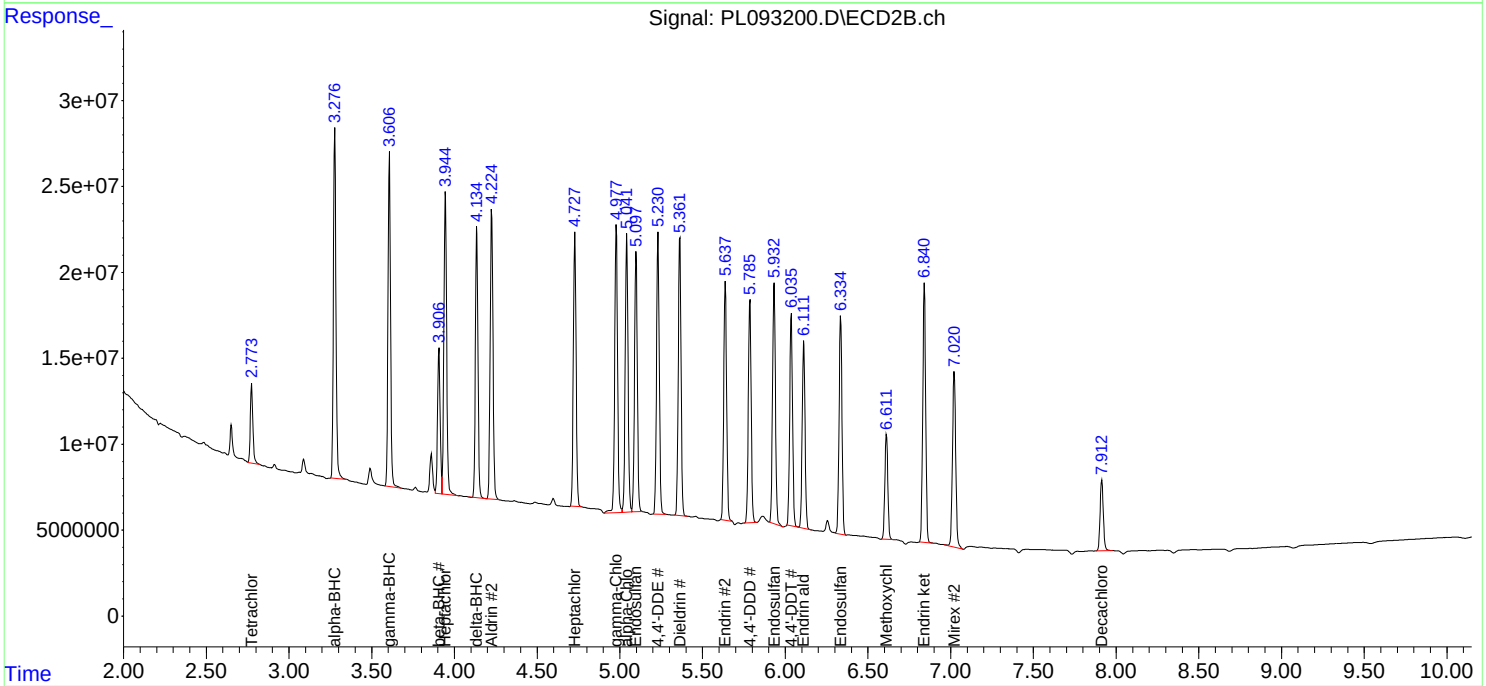
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:35:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Instrument :
ECD_L
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093201.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:54
Operator : AR\AJ
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:36:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.536	2.774	48585163	49229769	19.829	18.091
28) SA	Decachlor...	9.056	7.914	35516318	55620315	18.454	20.379
	Target Compounds						
2) A	alpha-BHC	3.992	3.277	177.8E6	213.4E6	52.424	53.476
3) MA	gamma-BHC...	4.323	3.607	163.8E6	205.6E6	50.240m	53.276
4) MA	Heptachlor	4.913	3.945	152.6E6	203.6E6	50.818	53.937
5) MB	Aldrin	5.254	4.225	145.0E6	196.5E6	48.308m	53.697
6) B	beta-BHC	4.523	3.907	74086122	89185379	51.254	54.175
7) B	delta-BHC	4.770	4.135	147.8E6	172.3E6	47.227	44.836
8) B	Heptachlo...	5.682	4.728	137.9E6	184.6E6	49.933	55.249
9) A	Endosulfan I	6.068	5.098	126.8E6	175.9E6	50.709	57.614
10) B	gamma-Chl...	5.938	4.978	135.3E6	195.4E6	50.835	58.112
11) B	alpha-Chl...	6.018	5.042	135.1E6	190.8E6	51.004	57.373
12) B	4,4'-DDE	6.191	5.231	124.3E6	189.0E6	52.462	58.659
13) MA	Dieldrin	6.343	5.363	135.2E6	193.7E6	51.299	57.983
14) MA	Endrin	6.573	5.638	108.3E6	163.6E6	47.565	56.552
15) B	Endosulfa...	6.793	5.933	118.7E6	170.1E6	49.779	60.037
16) A	4,4'-DDD	6.709	5.786	101.8E6	154.8E6	53.050	62.159
17) MA	4,4'-DDT	7.023	6.037	103.3E6	147.0E6	49.923	54.794
18) B	Endrin al...	6.923	6.113	94313867	131.6E6	50.221	57.048
19) B	Endosulfa...	7.158	6.336	105.6E6	151.5E6	48.662	56.192
20) A	Methoxychlor	7.500	6.612	52925633	75375961	46.426	52.783
21) B	Endrin ke...	7.643	6.841	125.2E6	184.7E6	51.679	60.195
22)	Mirex	8.117	7.022	90240941	134.5E6	45.537	51.565

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

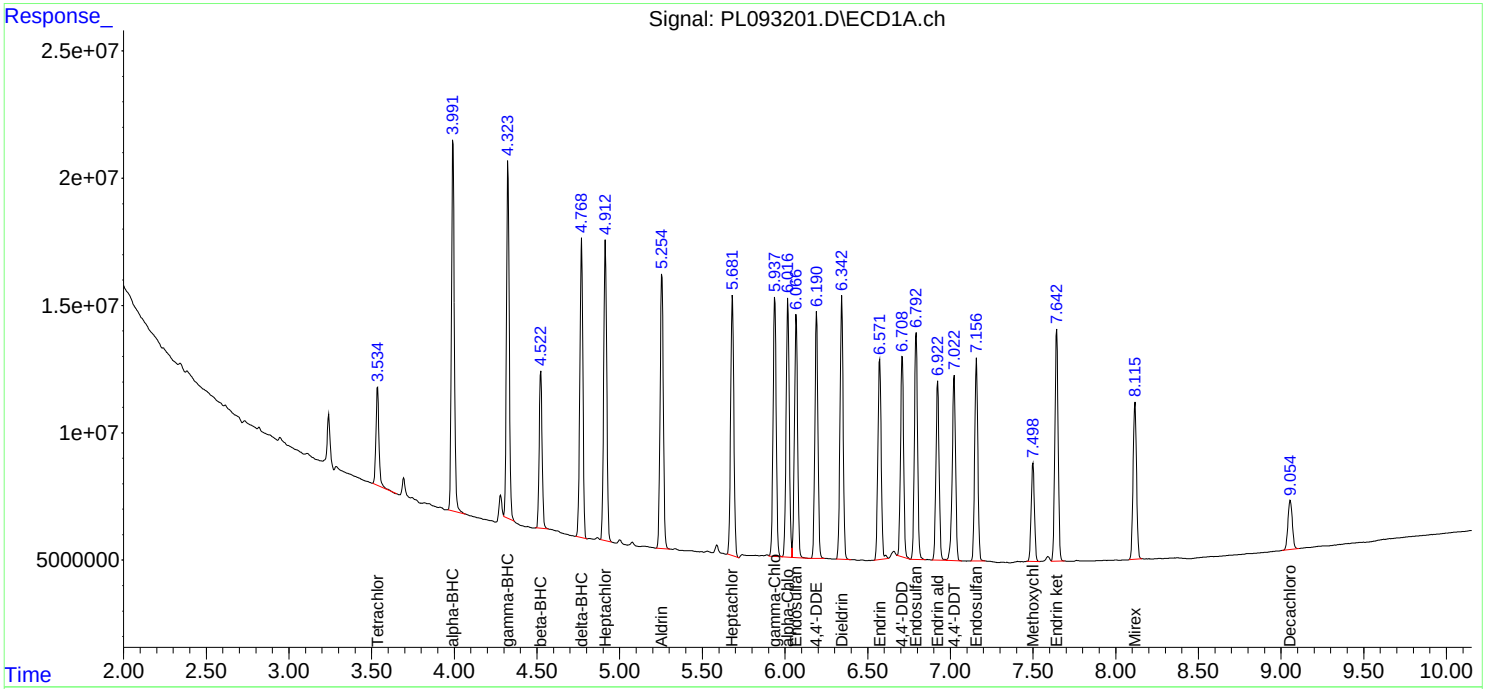
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093201.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:54
Operator : AR\AJ
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

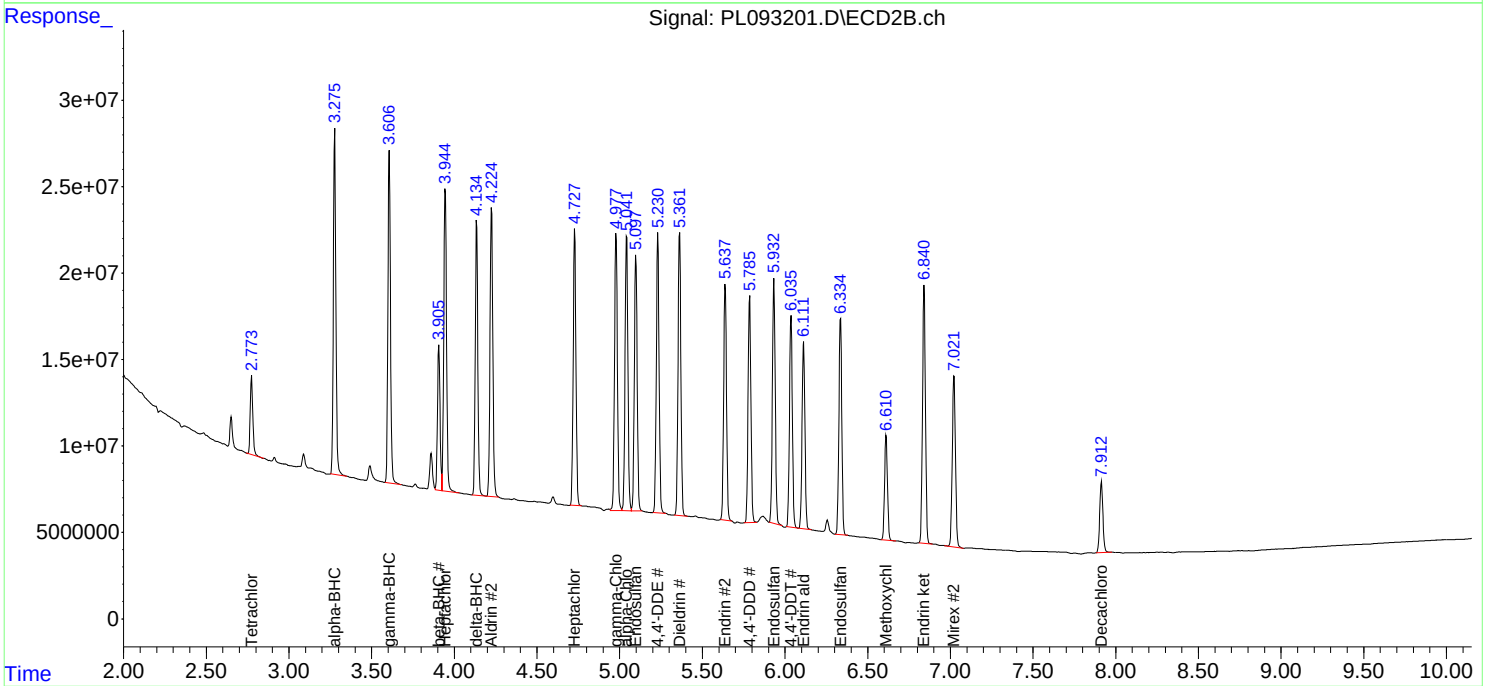
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:36:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Instrument :
ECD_L
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024





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

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL112124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL093192.D	4,4"-DDD	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	4,4"-DDE	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	Endrin aldehyde	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	Endrin aldehyde #2	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PSTDCCC050	PL093193.D	4,4"-DDD	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Aldrin	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Endosulfan II #2	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Endrin	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PB165164BS	PL093196.D	Aldrin	yogesh	11/22/2024 8:47:53 AM	Ankita	11/22/2024 11:29:20	Peak Integrated by Software
P4892-03MS	PL093200.D	Aldrin	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software
P4892-03MS	PL093200.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software
P4892-03MS	PL093200.D	Tetrachloro-m-xylene #2	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL112124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4892-03MSD	PL093201.D	Aldrin	yogesh	11/22/2024 8:48:01 AM	Ankita	11/22/2024 11:29:25	Peak Integrated by Software
P4892-03MSD	PL093201.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:48:01 AM	Ankita	11/22/2024 11:29:25	Peak Integrated by Software
PSTDCCC050	PL093211.D	4,4"-DDD	yogesh	11/22/2024 12:39:33 PM	Ankita	11/22/2024 2:42:52	Peak Integrated by Software
PSTDCCC050	PL093211.D	4,4"-DDT #2	yogesh	11/22/2024 12:39:33 PM	Ankita	11/22/2024 2:42:52	Peak Integrated by Software
PSTDCCC050	PL093211.D	Aldrin	yogesh	11/22/2024 12:39:33 PM	Ankita	11/22/2024 2:42:52	Peak Integrated by Software
PSTDCCC050	PL093211.D	Endosulfan II	yogesh	11/22/2024 12:39:33 PM	Ankita	11/22/2024 2:42:52	Peak Integrated by Software
PSTDCCC050	PL093211.D	Endrin	yogesh	11/22/2024 12:39:33 PM	Ankita	11/22/2024 2:42:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL112224	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL093214.D	4,4"-DDD	yogesh	11/25/2024 8:54:53 AM	Ankita	11/25/2024 9:35:10	Peak Integrated by Software
PEM	PL093214.D	4,4"-DDE	yogesh	11/25/2024 8:54:53 AM	Ankita	11/25/2024 9:35:10	Peak Integrated by Software
PEM	PL093214.D	Endrin	yogesh	11/25/2024 8:54:53 AM	Ankita	11/25/2024 9:35:10	Peak Integrated by Software
PEM	PL093214.D	Endrin aldehyde	yogesh	11/25/2024 8:54:53 AM	Ankita	11/25/2024 9:35:10	Peak Integrated by Software
PSTDCCC050	PL093215.D	Aldrin	yogesh	11/25/2024 8:54:55 AM	Ankita	11/25/2024 9:35:12	Peak Integrated by Software
PSTDCCC050	PL093215.D	Endosulfan II #2	yogesh	11/25/2024 8:54:55 AM	Ankita	11/25/2024 9:35:12	Peak Integrated by Software
PSTDCCC050	PL093215.D	Endrin	yogesh	11/25/2024 8:54:55 AM	Ankita	11/25/2024 9:35:12	Peak Integrated by Software
PSTDCCC050	PL093228.D	Aldrin	yogesh	11/25/2024 8:55:11 AM	Ankita	11/25/2024 9:35:26	Peak Integrated by Software
PSTDCCC050	PL093228.D	Endrin	yogesh	11/25/2024 8:55:11 AM	Ankita	11/25/2024 9:35:26	Peak Integrated by Software
PSTDCCC050	PL093228.D	Heptachlor epoxide	yogesh	11/25/2024 8:55:11 AM	Ankita	11/25/2024 9:35:26	Peak Integrated by Software

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM		
SubDirectory	PL112124	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL093190.D	21 Nov 2024 09:12	AR\AJ	Ok
2	I.BLK	PL093191.D	21 Nov 2024 09:25	AR\AJ	Ok
3	PEM	PL093192.D	21 Nov 2024 09:38	AR\AJ	Ok,M
4	PSTDCCC050	PL093193.D	21 Nov 2024 09:51	AR\AJ	Ok,M
5	P4925-01RE	PL093194.D	21 Nov 2024 10:05	AR\AJ	Confirms
6	PB165164BL	PL093195.D	21 Nov 2024 10:35	AR\AJ	Ok
7	PB165164BS	PL093196.D	21 Nov 2024 10:48	AR\AJ	Ok,M
8	PB165060TB	PL093197.D	21 Nov 2024 11:02	AR\AJ	Ok
9	PB165123TB	PL093198.D	21 Nov 2024 11:15	AR\AJ	Ok
10	P4892-03	PL093199.D	21 Nov 2024 11:28	AR\AJ	Not Ok
11	P4892-03MS	PL093200.D	21 Nov 2024 11:41	AR\AJ	Ok,M
12	P4892-03MSD	PL093201.D	21 Nov 2024 11:54	AR\AJ	Ok,M
13	P4921-01	PL093202.D	21 Nov 2024 12:08	AR\AJ	Ok,M
14	PB165154BL	PL093203.D	21 Nov 2024 12:21	AR\AJ	Ok
15	PB165154BS	PL093204.D	21 Nov 2024 12:34	AR\AJ	Ok,M
16	P4938-05	PL093205.D	21 Nov 2024 12:47	AR\AJ	Ok,M
17	P4936-01	PL093206.D	21 Nov 2024 13:00	AR\AJ	Ok,M
18	P4938-01	PL093207.D	21 Nov 2024 14:14	AR\AJ	Ok,M
19	P4938-01MS	PL093208.D	21 Nov 2024 14:27	AR\AJ	Ok,M
20	P4938-01MSD	PL093209.D	21 Nov 2024 14:40	AR\AJ	Ok,M
21	I.BLK	PL093210.D	21 Nov 2024 14:53	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM		
SubDirectory	PL112124	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PSTDCCC050	PL093211.D	21 Nov 2024 15:07	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112224

Review By	yogesh	Review On	11/25/2024 8:55:24 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:35:34 AM		
SubDirectory	PL112224	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL093212.D	22 Nov 2024 09:10	AR\AJ	Ok
2	I.BLK	PL093213.D	22 Nov 2024 09:24	AR\AJ	Ok
3	PEM	PL093214.D	22 Nov 2024 09:37	AR\AJ	Ok,M
4	PSTDCCC050	PL093215.D	22 Nov 2024 10:03	AR\AJ	Ok,M
5	P4892-03	PL093216.D	22 Nov 2024 10:27	AR\AJ	Ok
6	PB165184BL	PL093217.D	22 Nov 2024 12:10	AR\AJ	Ok
7	PB165184BS	PL093218.D	22 Nov 2024 12:23	AR\AJ	Not Ok
8	P4948-01	PL093219.D	22 Nov 2024 12:36	AR\AJ	Ok,M
9	P4948-01MS	PL093220.D	22 Nov 2024 12:49	AR\AJ	Ok,M
10	P4948-01MSD	PL093221.D	22 Nov 2024 13:03	AR\AJ	Ok,M
11	P4954-03	PL093222.D	22 Nov 2024 13:16	AR\AJ	Ok,M
12	P4948-03	PL093223.D	22 Nov 2024 13:29	AR\AJ	Ok,M
13	P4949-03	PL093224.D	22 Nov 2024 13:42	AR\AJ	Ok,M
14	P4951-01	PL093225.D	22 Nov 2024 13:55	AR\AJ	Ok,M
15	P4954-01	PL093226.D	22 Nov 2024 14:09	AR\AJ	Ok,M
16	I.BLK	PL093227.D	22 Nov 2024 15:46	AR\AJ	Ok
17	PSTDCCC050	PL093228.D	22 Nov 2024 16:14	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM		
SubDirectory	PL112124	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL093190.D	21 Nov 2024 09:12		AR\AJ	Ok
2	I.BLK	I.BLK	PL093191.D	21 Nov 2024 09:25		AR\AJ	Ok
3	PEM	PEM	PL093192.D	21 Nov 2024 09:38		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL093193.D	21 Nov 2024 09:51		AR\AJ	Ok,M
5	P4925-01RE	MH-741RE	PL093194.D	21 Nov 2024 10:05	TCMX HIGH in both column	AR\AJ	Confirms
6	PB165164BL	PB165164BL	PL093195.D	21 Nov 2024 10:35		AR\AJ	Ok
7	PB165164BS	PB165164BS	PL093196.D	21 Nov 2024 10:48		AR\AJ	Ok,M
8	PB165060TB	PB165060TB	PL093197.D	21 Nov 2024 11:02		AR\AJ	Ok
9	PB165123TB	PB165123TB	PL093198.D	21 Nov 2024 11:15		AR\AJ	Ok
10	P4892-03	WB-310-BOT	PL093199.D	21 Nov 2024 11:28	contamination	AR\AJ	Not Ok
11	P4892-03MS	WB-310-BOTMS	PL093200.D	21 Nov 2024 11:41		AR\AJ	Ok,M
12	P4892-03MSD	WB-310-BOTMSD	PL093201.D	21 Nov 2024 11:54		AR\AJ	Ok,M
13	P4921-01	WC-11-A-202411	PL093202.D	21 Nov 2024 12:08		AR\AJ	Ok,M
14	PB165154BL	PB165154BL	PL093203.D	21 Nov 2024 12:21		AR\AJ	Ok
15	PB165154BS	PB165154BS	PL093204.D	21 Nov 2024 12:34		AR\AJ	Ok,M
16	P4938-05	MH-734	PL093205.D	21 Nov 2024 12:47		AR\AJ	Ok,M
17	P4936-01	PL-01-11202024	PL093206.D	21 Nov 2024 13:00		AR\AJ	Ok,M
18	P4938-01	MH-732	PL093207.D	21 Nov 2024 14:14		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM		
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM		
SubDirectory	PL112124	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4938-01MS	MH-732MS	PL093208.D	21 Nov 2024 14:27		AR\AJ	Ok,M
20	P4938-01MSD	MH-732MSD	PL093209.D	21 Nov 2024 14:40		AR\AJ	Ok,M
21	I.BLK	I.BLK	PL093210.D	21 Nov 2024 14:53		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PL093211.D	21 Nov 2024 15:07		AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112224

Review By	yogesh	Review On	11/25/2024 8:55:24 AM		
Supervise By	Ankita	Supervise On	11/25/2024 9:35:34 AM		
SubDirectory	PL112224	HP Acquire Method		HP Processing Method	PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL093212.D	22 Nov 2024 09:10		AR\AJ	Ok
2	I.BLK	I.BLK	PL093213.D	22 Nov 2024 09:24		AR\AJ	Ok
3	PEM	PEM	PL093214.D	22 Nov 2024 09:37		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL093215.D	22 Nov 2024 10:03		AR\AJ	Ok,M
5	P4892-03	WB-310-BOT	PL093216.D	22 Nov 2024 10:27		AR\AJ	Ok
6	PB165184BL	PB165184BL	PL093217.D	22 Nov 2024 12:10		AR\AJ	Ok
7	PB165184BS	PB165184BS	PL093218.D	22 Nov 2024 12:23	recovery high	AR\AJ	Not Ok
8	P4948-01	337	PL093219.D	22 Nov 2024 12:36		AR\AJ	Ok,M
9	P4948-01MS	337MS	PL093220.D	22 Nov 2024 12:49		AR\AJ	Ok,M
10	P4948-01MSD	337MSD	PL093221.D	22 Nov 2024 13:03		AR\AJ	Ok,M
11	P4954-03	TR-06-112124	PL093222.D	22 Nov 2024 13:16		AR\AJ	Ok,M
12	P4948-03	72-11944	PL093223.D	22 Nov 2024 13:29		AR\AJ	Ok,M
13	P4949-03	CONTAINMENT-STON	PL093224.D	22 Nov 2024 13:42		AR\AJ	Ok,M
14	P4951-01	AU-05-112124	PL093225.D	22 Nov 2024 13:55		AR\AJ	Ok,M
15	P4954-01	TR-05-112124	PL093226.D	22 Nov 2024 14:09		AR\AJ	Ok,M
16	I.BLK	I.BLK	PL093227.D	22 Nov 2024 15:46		AR\AJ	Ok
17	PSTDCCC050	PSTDCCC050	PL093228.D	22 Nov 2024 16:14		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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

TCLP Filter ID : 114771

Start Prep Date : 11/18/2024 **Time :** 16:00

End Prep Date : 11/19/2024 **Time :** 08:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Particle size reduction is not required. p4910-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 10:30	JP / TCLP Room	JZ / Met Dry
	Preparation Group	**Analysis Group** RS / EXT

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

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TCLP Solid Determination

PB165060

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4890-06	D3721	N/A	N/A	N/A	N/A	100	N/A
P4892-03	WB-310-BOT	N/A	N/A	N/A	N/A	100	N/A
P4893-04	MH-763	N/A	N/A	N/A	N/A	100	N/A
P4893-08	MH-762	N/A	N/A	N/A	N/A	100	N/A
P4910-04	MH-COTTAGE	N/A	N/A	N/A	N/A	100	N/A
P4910-08	MH-759	N/A	N/A	N/A	N/A	100	N/A
PB165060TB	LEB060	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB165060

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
P4890-06	D3721	5.02	96.5	6.2	2.5	#1	4.94
P4892-03	WB-310-BOT	5.03	96.5	8.6	3.5	#1	4.94
P4893-04	MH-763	5.02	96.5	8.6	3.5	#1	4.94
P4893-08	MH-762	5.01	96.5	8.0	3.0	#1	4.94
P4910-04	MH-COTTAGE	5.02	96.5	9.1	4.5	#1	4.94
P4910-08	MH-759	5.03	96.5	8.6	4.0	#1	4.94
PB165060TB	LEB060	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4892 **WorkList ID :** 185532 **Department :** TCLP Extraction **Date :** 11-18-2024 12:28:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4890-06	D3721	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		11/15/2024	1311
P4892-03	WB-310-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	M11	11/15/2024	1311
P4893-04	MH-763	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4893-08	MH-762	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4910-04	MH-COTTAGE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311
P4910-08	MH-759	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311

Date/Time 11-18-24 15:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11-18-24 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165164

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/20/2024
Matrix :	Water			**Extraction Start Time :**	12:00
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/20/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
Surrogate	1.0ML	200 PPB	PP23985
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	E3829
Baked Na2SO4	N/A	EP2562
Hexane	N/A	E3826
N/A	N/A	N/A
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	Water bath -01	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RP (Set 1 out)	Y-P-PRST/PCB.
17:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165164

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165060TB	PB165060TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			SEP-01
PB165123TB	PB165123TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			2
PB165164BL	PBLK164	TCLP Pesticide	1000	6	RUPESH	ritesh	10			3
PB165164BS	PLCS164	TCLP Pesticide	1000	6	RUPESH	ritesh	10			4
P4892-03	WB-310-BOT	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
P4892-03MS	WB-310-BOTMS	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
P4892-03MSD	WB-310-BOTMSD	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7
P4921-01	WC-11-A-202411	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		8

* **Extracts relinquished on the same date as received.**

11/20/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165123

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
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

11/20/24

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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	
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/19/2024
10:30

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP Pesticide	8081B		11/20/24	11/22/24	
P4892-04	**WB-310-SW**	**WATER**			**11/15/24**			**11/15/24**
			PCB	8082A		11/20/24	11/20/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4892 **Order ID:** P4892

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028600.D	1	11/21/24 09:41	11/22/24 12:25	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	547		70 (39) - 130 (175)	109%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/21/24
Client Sample ID:	PB165060TB	SDG No.:	P4892
Lab Sample ID:	PB165060TB	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
PS028599.D	1	11/21/24 09:41	11/22/24 12:01	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	334	*	70 (39) - 130 (175)	67%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: P4892

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-PS028487.D	PIBLK-PS028487.D	2,4-DCAA	1	500	548	110		70 (39)	130 (175)
		2,4-DCAA	2	500	547	109		70 (39)	130 (175)
I.BLK-PS028595.D	PIBLK-PS028595.D	2,4-DCAA	1	500	585	117		70 (39)	130 (175)
		2,4-DCAA	2	500	511	102		70 (39)	130 (175)
PB165193BL	PB165193BL	2,4-DCAA	1	500	617	123		70 (39)	130 (175)
		2,4-DCAA	2	500	542	108		70 (39)	130 (175)
PB165193BS	PB165193BS	2,4-DCAA	1	500	610	122		70 (39)	130 (175)
		2,4-DCAA	2	500	537	107		70 (39)	130 (175)
PB165060TB	PB165060TB	2,4-DCAA	1	500	334	67	*	70 (39)	130 (175)
		2,4-DCAA	2	500	288	58	*	70 (39)	130 (175)
P4892-03	WB-310-BOT	2,4-DCAA	1	500	547	109		70 (39)	130 (175)
		2,4-DCAA	2	500	468	94		70 (39)	130 (175)
P4892-03MS	WB-310-BOTMS	2,4-DCAA	1	500	551	110		70 (39)	130 (175)
		2,4-DCAA	2	500	476	95		70 (39)	130 (175)
P4892-03MSD	WB-310-BOTMSD	2,4-DCAA	1	500	555	111		70 (39)	130 (175)
		2,4-DCAA	2	500	470	94		70 (39)	130 (175)
I.BLK-PS028603.D	PIBLK-PS028603.D	2,4-DCAA	1	500	574	115		70 (39)	130 (175)
		2,4-DCAA	2	500	515	103		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028601.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WB-310-BOTMS**											
P4892-03MS	2,4-D	50	0	62.4	ug/L	125				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	61.9	ug/L	124				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028602.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-310-BOTMSD**											
P4892-03MSD	2,4-D	50	0	62.5	ug/L	125		0		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	65.1	ug/L	130		5		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.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS028598.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165193BS	2,4-D	5	6.30	ug/L	126				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	6.10	ug/L	122				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165193BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab Sample ID: PB165193BL Lab File ID: PS028597.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/21/2024

Date Analyzed (1): 11/22/2024 Date Analyzed (2): 11/22/2024

Time Analyzed (1): 11:13 Time Analyzed (2): 11:13

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
PB165193BS	PB165193BS	PS028598.D	11/22/2024	11/22/2024
PB165060TB	PB165060TB	PS028599.D	11/22/2024	11/22/2024
WB-310-BOT	P4892-03	PS028600.D	11/22/2024	11/22/2024
WB-310-BOTMS	P4892-03MS	PS028601.D	11/22/2024	11/22/2024
WB-310-BOTMSD	P4892-03MSD	PS028602.D	11/22/2024	11/22/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165193BL	SDG No.:	P4892
Lab Sample ID:	PB165193BL	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
PS028597.D	1	11/21/24 09:41	11/22/24 11:13	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	617		70 (39) - 130 (175)	123%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/13/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/13/24
Client Sample ID:	PIBLK-PS028487.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PS028487.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
PS028487.D	1		11/13/24	PS111324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	548		70 (39) - 130 (175)	110%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/22/24
Client Sample ID:	PIBLK-PS028595.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PS028595.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
PS028595.D	1		11/22/24	PS112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	585		70 (39) - 130 (175)	117%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/22/24
Client Sample ID:	PIBLK-PS028603.D	SDG No.:	P4892
Lab Sample ID:	I.BLK-PS028603.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
PS028603.D	1		11/22/24	PS112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	574		70 (39) - 130 (175)	115%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165193BS	SDG No.:	P4892
Lab Sample ID:	PB165193BS	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
PS028598.D	1	11/21/24 09:41	11/22/24 11:37	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	6.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	6.10		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	610		70 (39) - 130 (175)	122%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-03MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028601.D	1	11/21/24 09:41	11/22/24 12:49	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	62.4		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	61.9		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	551		70 (39) - 130 (175)	110%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-03MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028602.D	1	11/21/24 09:41	11/22/24 13:13	PB165193

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	62.5		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	65.1		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	555		70 (39) - 130 (175)	111%	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.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024

Calibration Times: 11:44 13:23

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028488.D RT 500 = PS028489.D

RT 750 = PS028490.D RT 1000 = PS028491.D RT 1500 = PS028492.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)	9.25	9.25	9.25	9.25	9.25	9.25	9.15	9.35
2,4-D	8.37	8.37	8.37	8.37	8.37	8.37	8.27	8.47
2,4-DCAA	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024

Calibration Times: 11:44 13:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028488.D RT 500 = PS028489.D

RT 750 = PS028490.D RT 1000 = PS028491.D RT 1500 = PS028492.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)	9.90	9.90	9.90	9.90	9.90	9.90	9.80	10.00
2,4-D	8.99	8.99	8.99	8.99	8.99	8.99	8.89	9.09
2,4-DCAA	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024

Calibration Times: 11:44 13:23

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID: **CF 200 =** PS028488.D **CF 500 =** PS028489.D

CF 750 = PS028490.D **CF 1000 =** PS028491.D **CF 1500 =** PS028492.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	17984700000	18202900000	17704400000	16835500000	16126100000	17370700000	5
2,4-D	3426680000	3322800000	3216710000	3055910000	2962550000	3196930000	6
2,4-DCAA	2772700000	2649760000	2564110000	2437330000	2355500000	2555880000	6

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Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024

Calibration Times: 11:44 13:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028488.D **CF 500 =** PS028489.D

CF 750 = PS028490.D **CF 1000 =** PS028491.D **CF 1500 =** PS028492.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	8015310000	8674200000	8711600000	8465070000	8325300000	8438300000	3
2,4-D	1549260000	1596990000	1592240000	1549180000	1540080000	1565550000	2
2,4-DCAA	1280520000	1318140000	1312940000	1279750000	1270170000	1292300000	2

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 11/13/2024 11/13/2024

Continuing Calib Time: 10:25 **Initial Calibration Time(s):** 11:44 13:23

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
2,4-D	8.36	8.37	8.27	8.47	0.01
2,4,5-TP(Silvex)	9.24	9.25	9.15	9.35	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 11/13/2024 11/13/2024

Continuing Calib Time: 10:25 **Initial Calibration Time(s):** 11:44 13:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
2,4-D	8.98	8.99	8.89	9.09	0.01
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/13/2024 11/13/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/22/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028596.D **Time Analyzed:** 10:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.236	9.150	9.350	725.540	712.500	1.8
2,4-D	8.358	8.270	8.470	706.690	705.000	0.2
2,4-DCAA	7.232	7.141	7.341	743.190	750.000	-0.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/13/2024 11/13/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/22/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028596.D **Time Analyzed:** 10:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.883	9.796	9.996	676.920	712.500	-5.0
2,4-D	8.978	8.890	9.090	645.580	705.000	-8.4
2,4-DCAA	7.732	7.642	7.842	661.550	750.000	-11.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 11/13/2024 11/13/2024

Continuing Calib Time: 14:25 **Initial Calibration Time(s):** 11:44 13:23

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
2,4-D	8.36	8.37	8.27	8.47	0.01
2,4,5-TP(Silvex)	9.23	9.25	9.15	9.35	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Continuing Calib Date: 11/22/2024 **Initial Calibration Date(s):** 11/13/2024 11/13/2024

Continuing Calib Time: 14:25 **Initial Calibration Time(s):** 11:44 13:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
2,4-D	8.98	8.99	8.89	9.09	0.01
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/13/2024 11/13/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/22/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028604.D **Time Analyzed:** 14:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.234	9.150	9.350	747.520	712.500	4.9
2,4-D	8.357	8.270	8.470	727.490	705.000	3.2
2,4-DCAA	7.231	7.141	7.341	766.810	750.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/13/2024 11/13/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/22/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028604.D **Time Analyzed:** 14:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.881	9.796	9.996	710.800	712.500	-0.2
2,4-D	8.976	8.890	9.090	679.390	705.000	-3.6
2,4-DCAA	7.731	7.642	7.842	688.910	750.000	-8.1

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/13/2024 11/13/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	11/13/2024	11:20	PS028487.D	7.24	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.24	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.24	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.24	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.24	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.24	0.00
I.BLK	I.BLK	11/22/2024	09:37	PS028595.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/22/2024	10:25	PS028596.D	7.23	0.00
PB165193BL	PB165193BL	11/22/2024	11:13	PS028597.D	7.23	0.00
PB165193BS	PB165193BS	11/22/2024	11:37	PS028598.D	7.23	0.00
PB165060TB	PB165060TB	11/22/2024	12:01	PS028599.D	7.23	0.00
WB-310-BOT	P4892-03	11/22/2024	12:25	PS028600.D	7.23	0.00
WB-310-BOTMS	P4892-03MS	11/22/2024	12:49	PS028601.D	7.23	0.00
WB-310-BOTMSD	P4892-03MSD	11/22/2024	13:13	PS028602.D	7.23	0.00
I.BLK	I.BLK	11/22/2024	13:37	PS028603.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/22/2024	14:25	PS028604.D	7.23	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/13/2024 11/13/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	11/13/2024	11:20	PS028487.D	7.74	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.74	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.74	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.74	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.74	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.74	0.00
I.BLK	I.BLK	11/22/2024	09:37	PS028595.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/22/2024	10:25	PS028596.D	7.73	0.00
PB165193BL	PB165193BL	11/22/2024	11:13	PS028597.D	7.73	0.00
PB165193BS	PB165193BS	11/22/2024	11:37	PS028598.D	7.73	0.00
PB165060TB	PB165060TB	11/22/2024	12:01	PS028599.D	7.73	0.00
WB-310-BOT	P4892-03	11/22/2024	12:25	PS028600.D	7.73	0.00
WB-310-BOTMS	P4892-03MS	11/22/2024	12:49	PS028601.D	7.73	0.00
WB-310-BOTMSD	P4892-03MSD	11/22/2024	13:13	PS028602.D	7.73	0.00
I.BLK	I.BLK	11/22/2024	13:37	PS028603.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/22/2024	14:25	PS028604.D	7.73	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165193BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: PB165193BS **Date(s) Analyzed:** 11/22/2024 11/22/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.36	8.31	8.41	6.30	10
	2	8.98	8.93	9.03	5.70	
2,4,5-TP(Silvex)	1	9.24	9.19	9.29	6.10	5
	2	9.88	9.83	9.93	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: P4892-03MS **Date(s) Analyzed:** 11/22/2024 11/22/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.36	8.31	8.41	62.4	9
	2	8.98	8.93	9.03	57.0	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	59.4	4.1
	2	9.88	9.83	9.93	61.9	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4892 **SAS No.:** P4892 **SDG NO.:** P4892

Lab Sample ID: P4892-03MSD **Date(s) Analyzed:** 11/22/2024 11/22/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.36	8.31	8.41	62.5	8.7
	2	8.98	8.93	9.03	57.3	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	60.0	8.2
	2	9.88	9.83	9.93	65.1	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:25
Operator : AR\AJ
Sample : P4892-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:01:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.231	7.730	1398.0E6	605.3E6	546.962m	468.400m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:25
Operator : AR\AJ
Sample : P4892-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

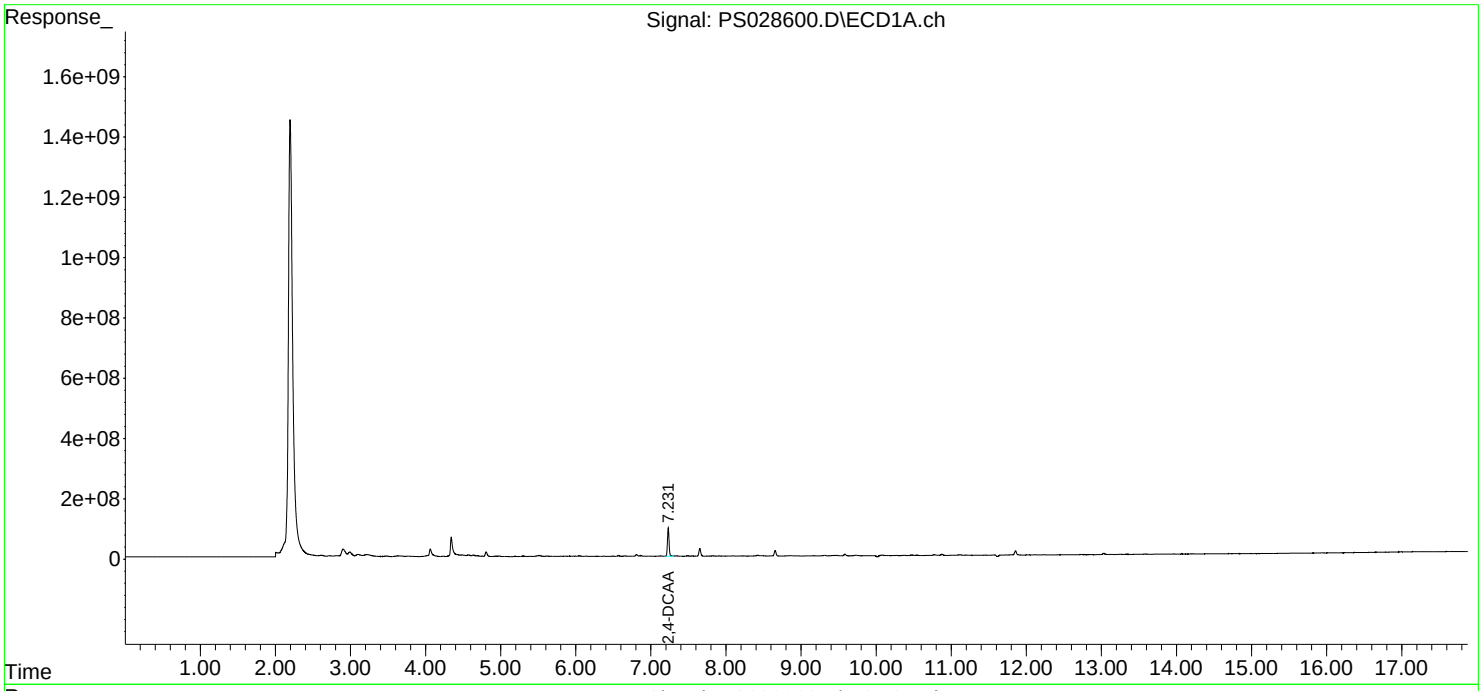
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:01:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

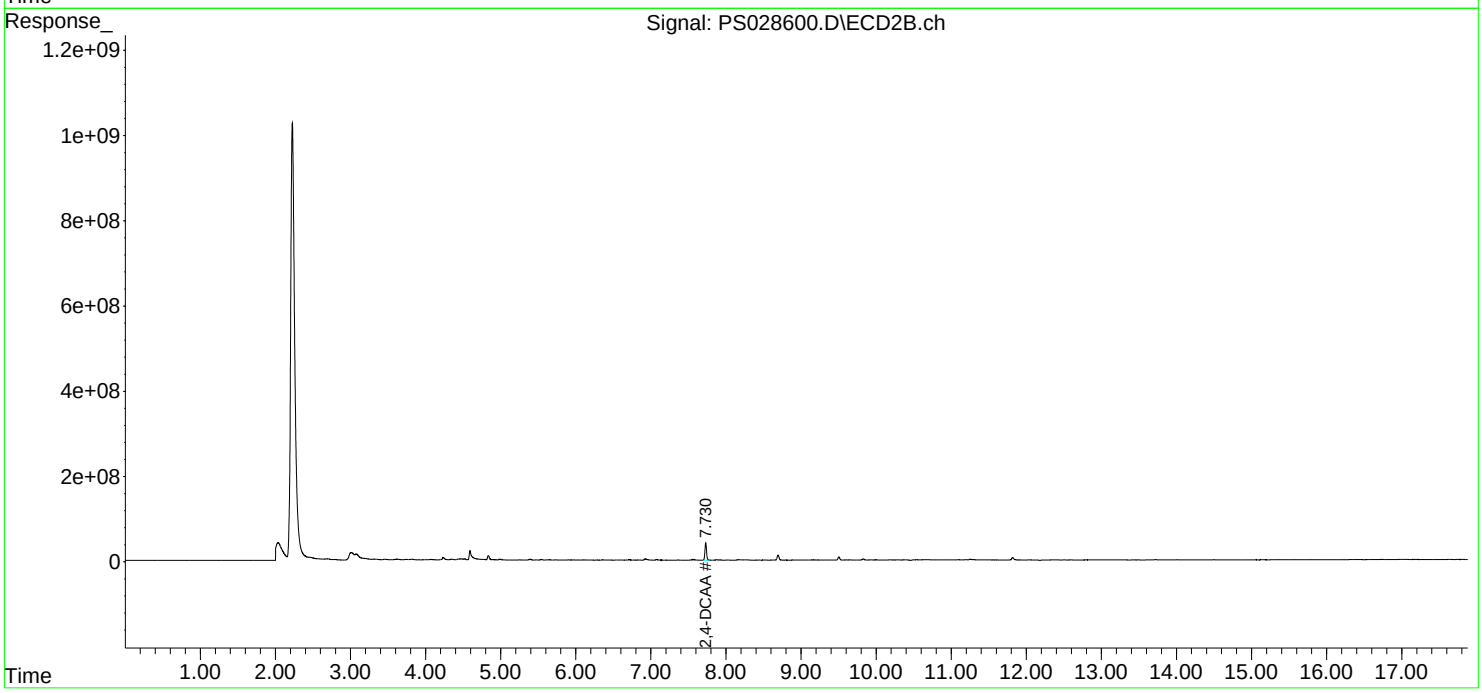
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

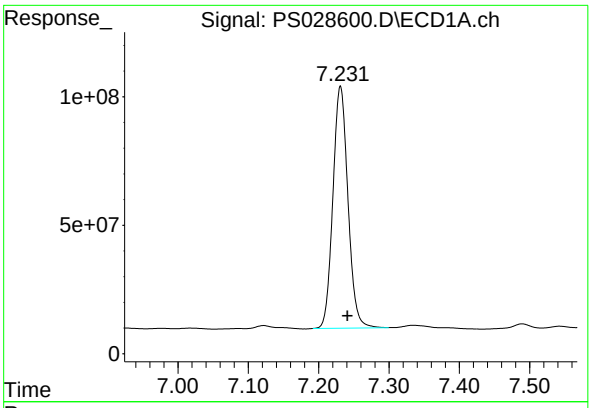
Instrument :
ECD_S
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024







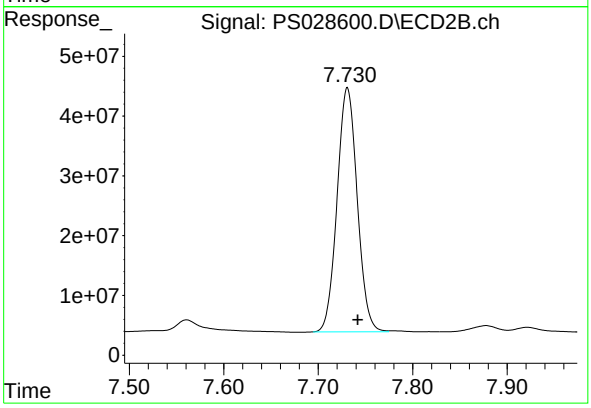
#4 2,4-DCAA

R.T.: 7.231 min
Delta R.T.: -0.010 min
Response: 1397969975
Conc: 546.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-310-BOT

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: -0.011 min
Response: 605316166
Conc: 468.40 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028599.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:01
Operator : AR\AJ
Sample : PB165060TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165060TB

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.231	7.731	853.8E6	372.2E6	334.055m	288.018m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

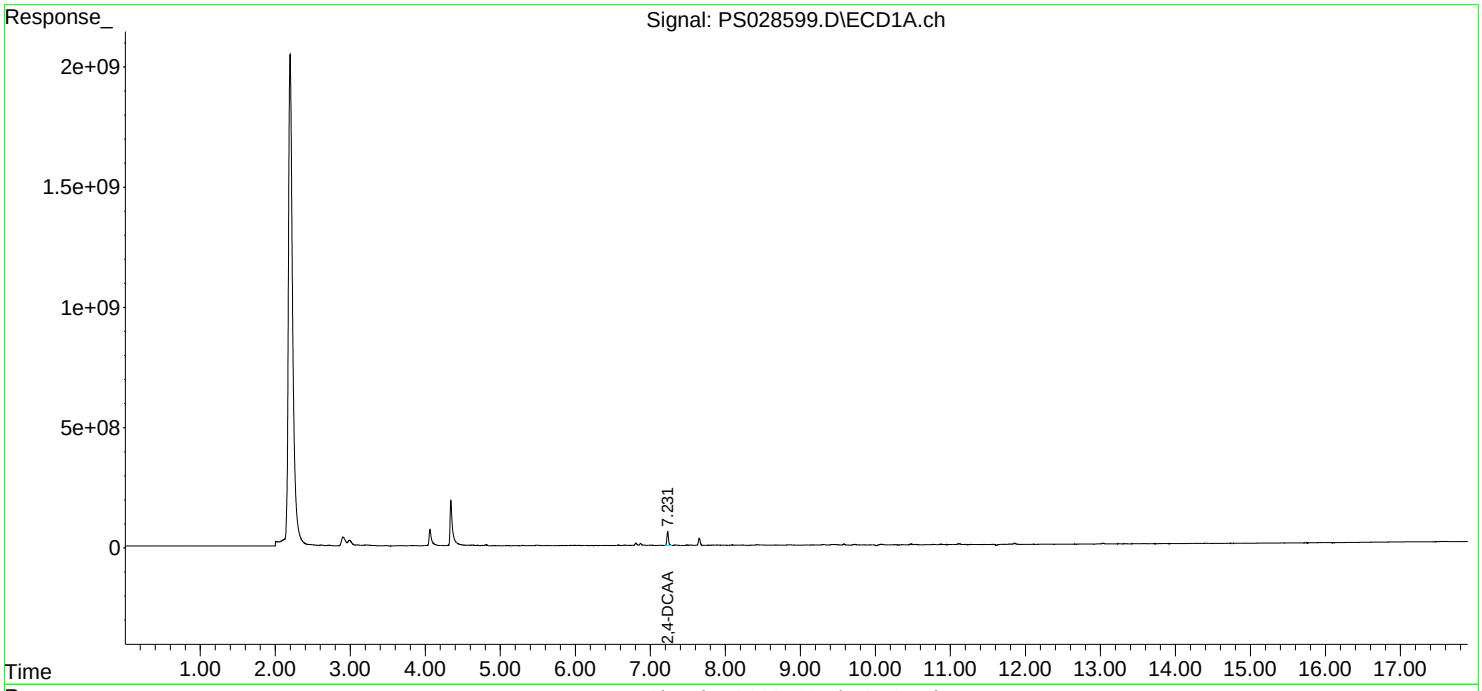
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028599.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:01
Operator : AR\AJ
Sample : PB165060TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

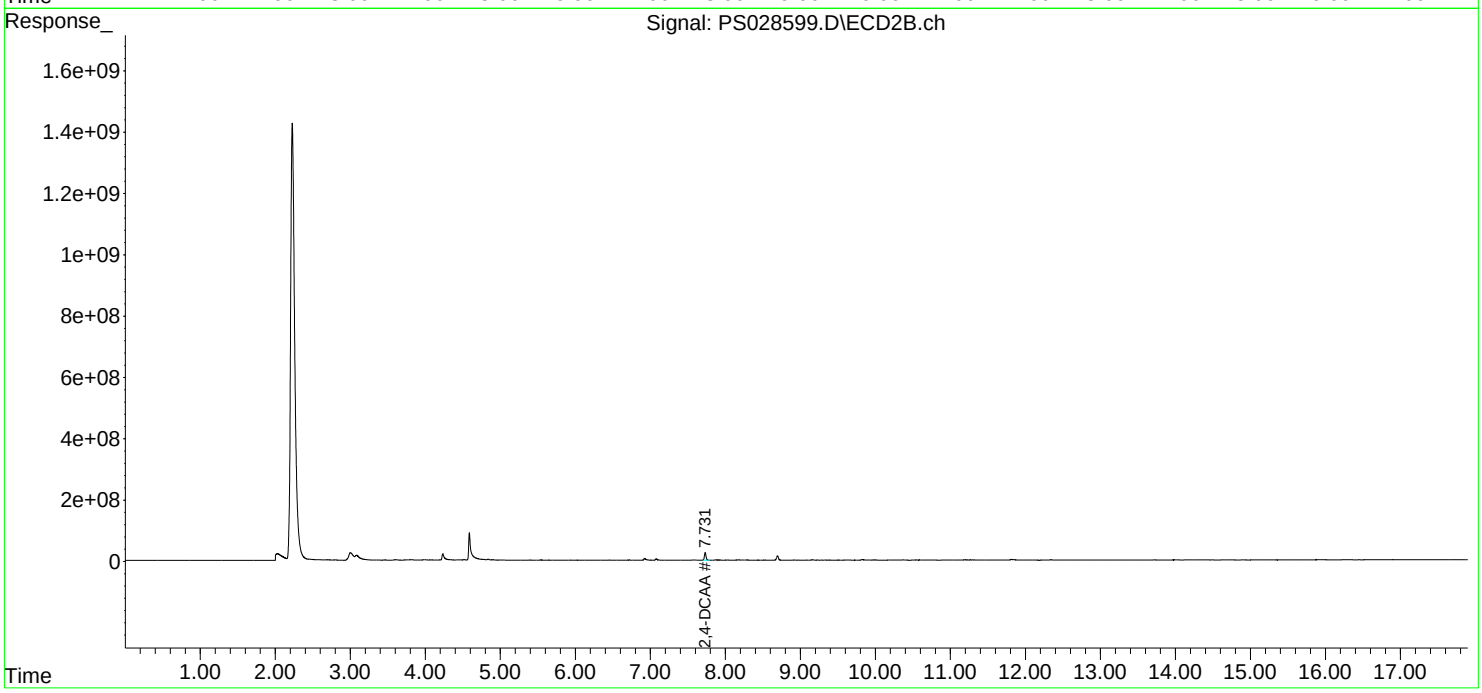
Instrument :
ECD_S
ClientSampleId :
PB165060TB

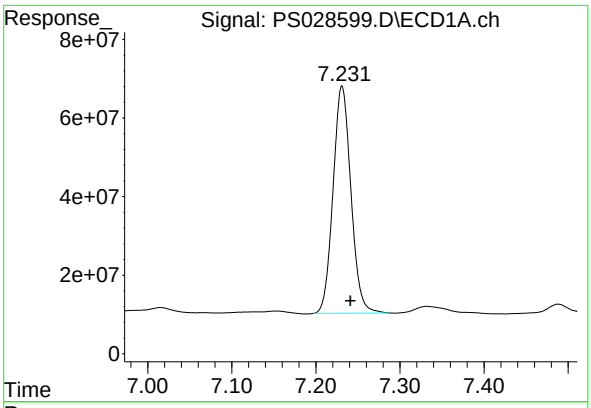
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







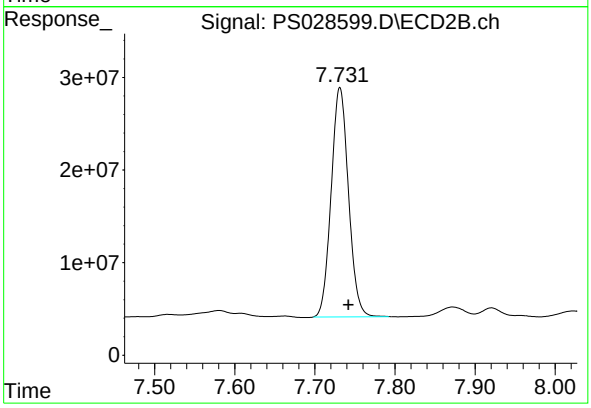
#4 2,4-DCAA

R.T.: 7.231 min
Delta R.T.: -0.010 min
Response: 853805208
Conc: 334.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165060TB

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



#4 2,4-DCAA

R.T.: 7.731 min
Delta R.T.: -0.011 min
Response: 372206641
Conc: 288.02 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028597.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 11:13
Operator : AR\AJ
Sample : PB165193BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 20:58:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.231	7.732	1578.0E6	700.5E6	617.408m	542.080m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Instrument :
ECD_S
ClientSampleId :
PB165193BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

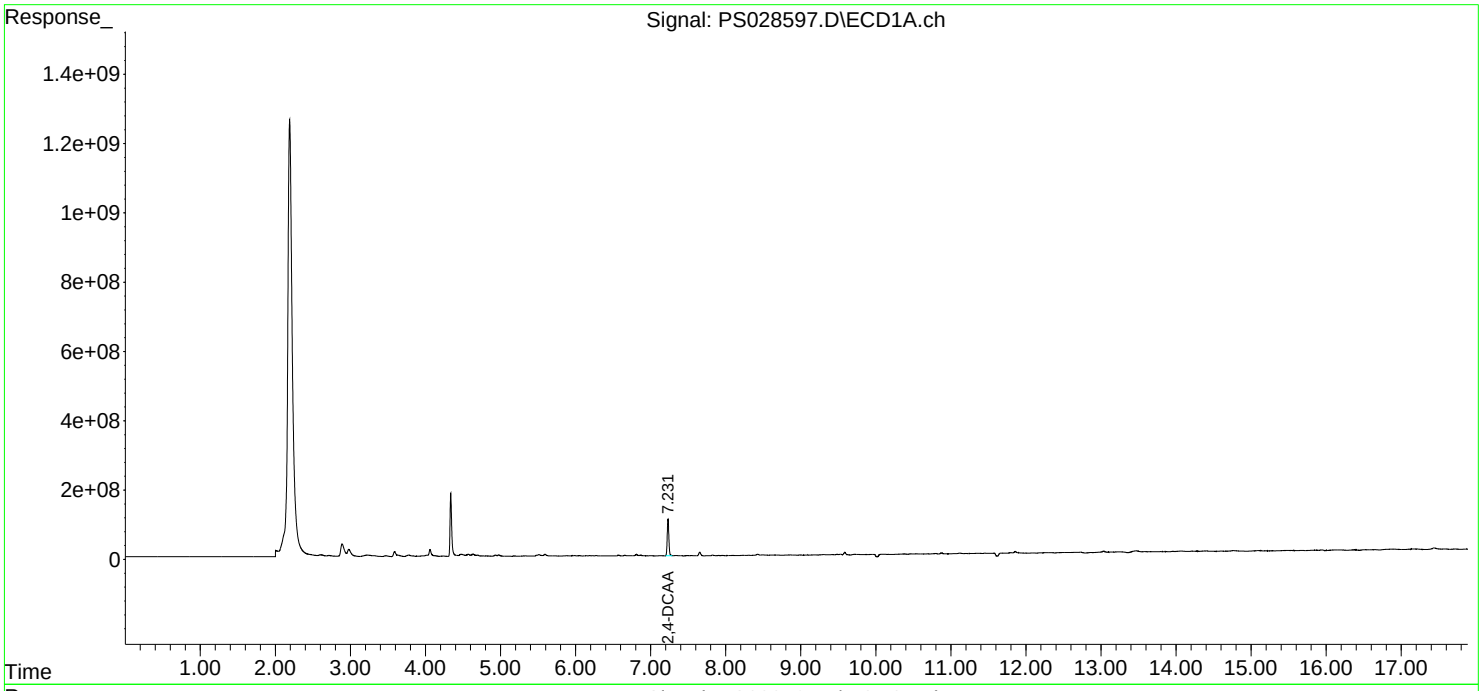
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Data File : PS028597.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 11:13
Operator : AR\AJ
Sample : PB165193BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

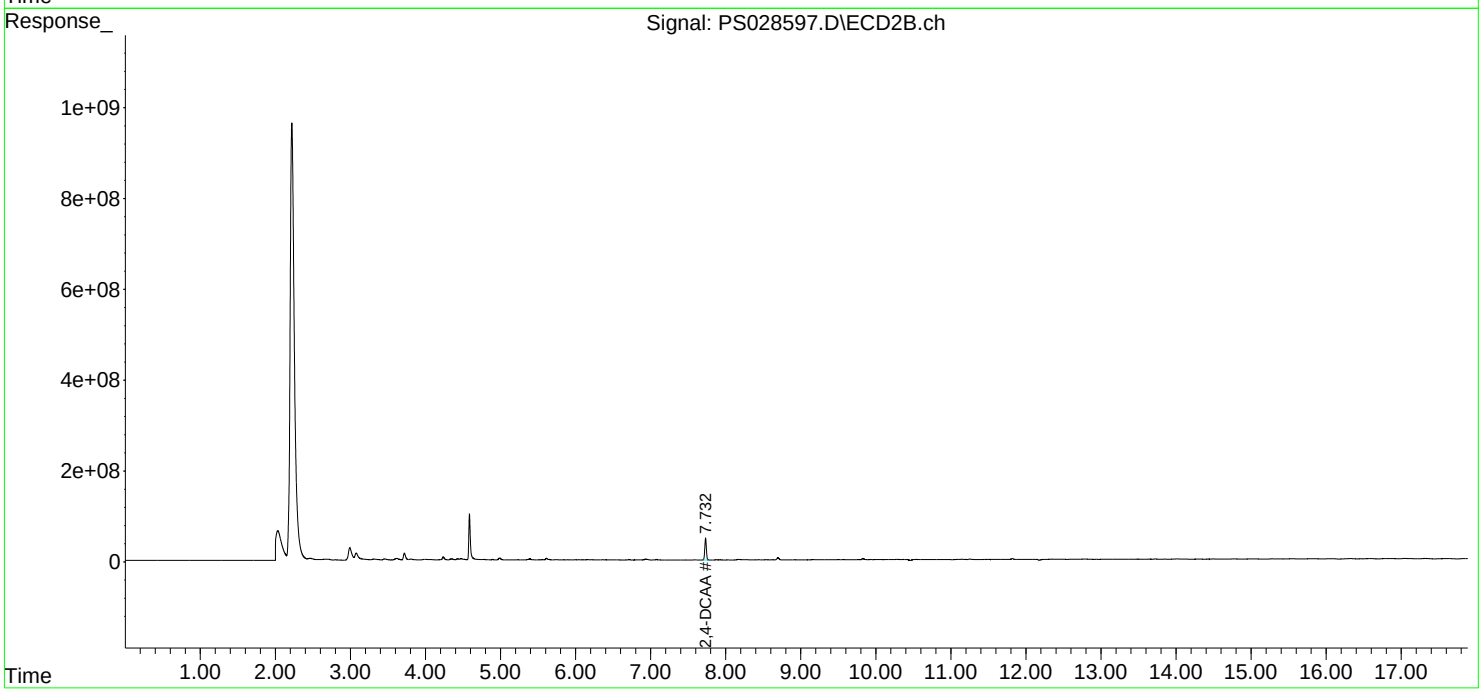
Instrument :
ECD_S
ClientSampleId :
PB165193BL

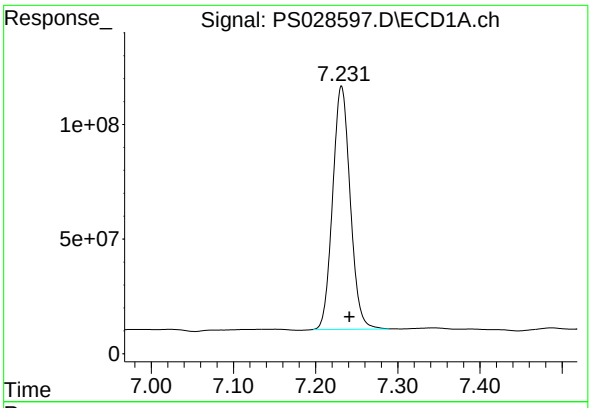
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 20:58:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







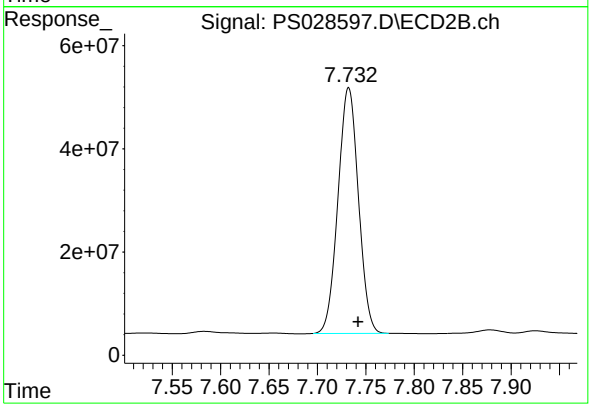
#4 2,4-DCAA

R.T.: 7.231 min
Delta R.T.: -0.010 min
Response: 1578022277
Conc: 617.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165193BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024



#4 2,4-DCAA

R.T.: 7.732 min
Delta R.T.: -0.010 min
Response: 700532775
Conc: 542.08 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 11:37
Operator : AR\AJ
Sample : PB165193BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165193BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 20:59:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.231	7.732	1560.3E6	694.2E6	610.491m	537.214
	Target Compounds						
1) T	Dalapon	2.635	2.698	1204.5E6	963.0E6	358.539	397.949
2) T	3,5-DICHL...	6.404	6.688	2186.9E6	957.7E6	586.105	495.593
3) T	4-Nitroph...	7.030	7.258	785.0E6	392.9E6	462.177	455.026m
5) T	DICAMBA	7.419	7.932	5996.1E6	2917.9E6	547.994	511.548
6) T	MCPP	7.599	8.033	378.3E6	210.0E6	53.780	48.820
7) T	MCPA	7.749	8.277	527.3E6	296.6E6	51.674	47.896
8) T	DICHLORPROP	8.126	8.648	1657.8E6	752.6E6	561.717	515.306
9) T	2,4-D	8.356	8.978	2002.6E6	898.5E6	626.416	573.921
10) T	Pentachlo...	8.656	9.506	26523.5E6	11536.8E6	635.506	575.536
11) T	2,4,5-TP ...	9.235	9.882	10581.7E6	4904.5E6	609.168m	581.223
12) T	2,4,5-T	9.527	10.303	10240.0E6	4452.8E6	576.105	531.213
13) T	2,4-DB	10.103	10.869	1506.5E6	534.7E6	552.736	510.358
14) T	DINOSEB	11.314	11.249	6208.3E6	2111.2E6	435.434	381.884
15) T	Picloram	11.121	12.342	12639.0E6	4664.5E6	448.833	412.092
16) T	DCPA	11.606	12.292	11307.2E6	5402.7E6	429.715	557.069 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 11:37
Operator : AR\AJ
Sample : PB165193BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

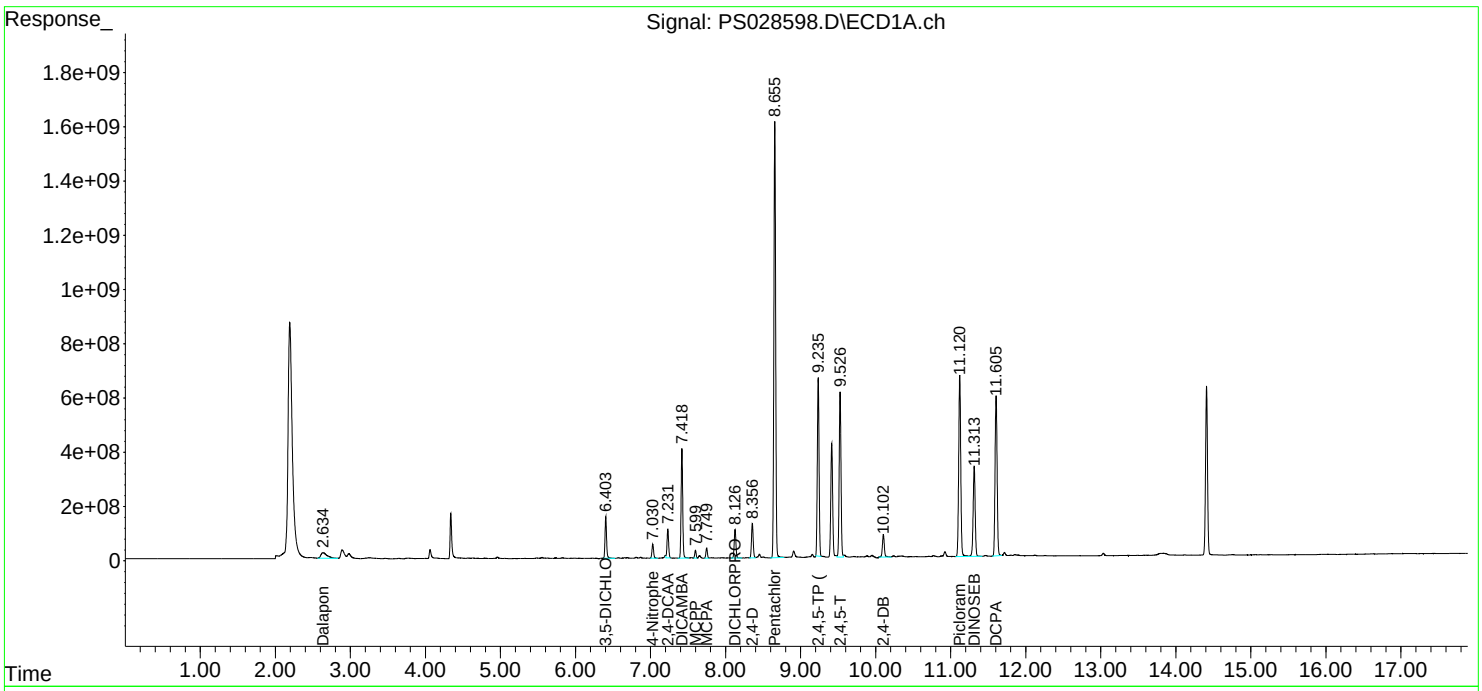
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 20:59:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

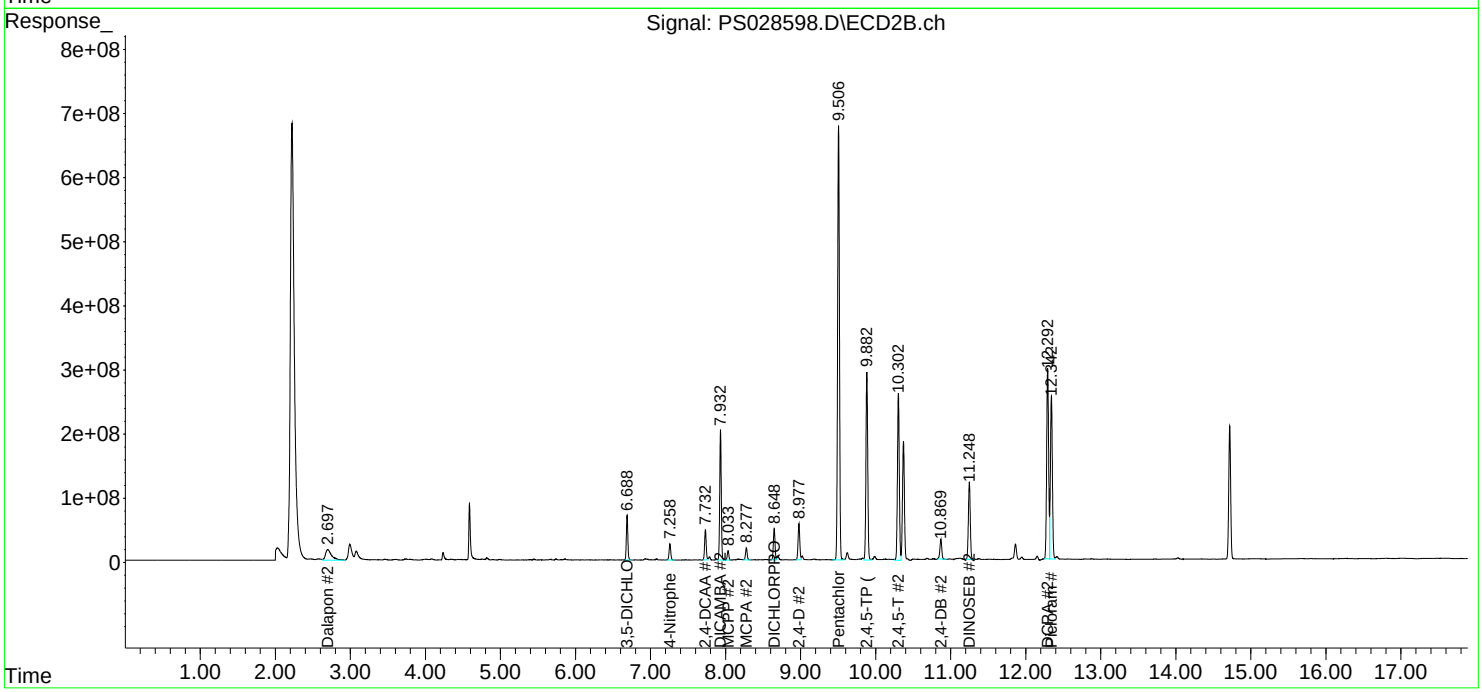
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
PB165193BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:49
Operator : AR\AJ
Sample : P4892-03MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:02:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.231	7.731	1409.4E6	614.6E6	551.434m	475.609m
		Target Compounds						
1)	T	Dalapon	2.636	2.699	1230.3E6	1050.6E6	366.226m	434.139m
2)	T	3,5-DICHL...	6.404	6.687	2030.5E6	925.1E6	544.183	478.738
3)	T	4-Nitroph...	7.031	7.259	26214172	12270943	15.434	14.212m
5)	T	DICAMBA	7.418	7.931	5736.2E6	2857.6E6	524.238m	500.980
6)	T	MCPP	7.599	8.033	333.4E6	206.7E6	47.400m	48.053
7)	T	MCPA	7.749	8.276	513.1E6	314.5E6	50.279	50.775
8)	T	DICHLORPROP	8.126	8.647	1603.0E6	736.5E6	543.130	504.254
9)	T	2,4-D	8.356	8.977	1995.5E6	892.4E6	624.178	570.026
10)	T	Pentachlo...	8.656	9.505	23144.4E6	10127.0E6	554.543	505.203
11)	T	2,4,5-TP ...	9.234	9.882	10323.3E6	5219.9E6	594.292	618.597
12)	T	2,4,5-T	9.527	10.302	10139.0E6	4464.3E6	570.424	532.580
13)	T	2,4-DB	10.102	10.868	1331.2E6	474.9E6	488.389	453.233
14)	T	DINOSEB	11.313	11.248	4921.6E6	1671.0E6	345.188	302.249
15)	T	Picloram	11.120	12.341	13449.7E6	5053.2E6	477.621	446.434
16)	T	DCPA	11.605	12.291	12185.8E6	5388.1E6	463.104	555.561

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

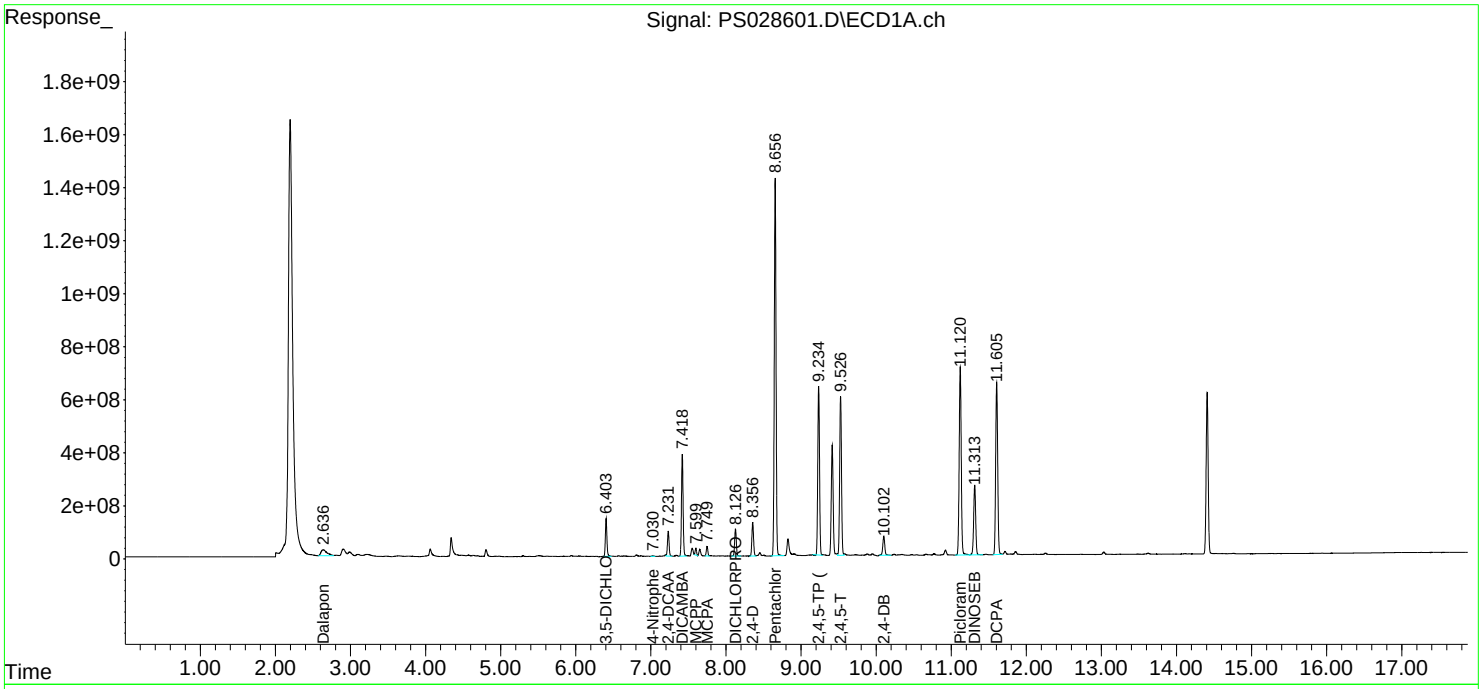
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 12:49
Operator : AR\AJ
Sample : P4892-03MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

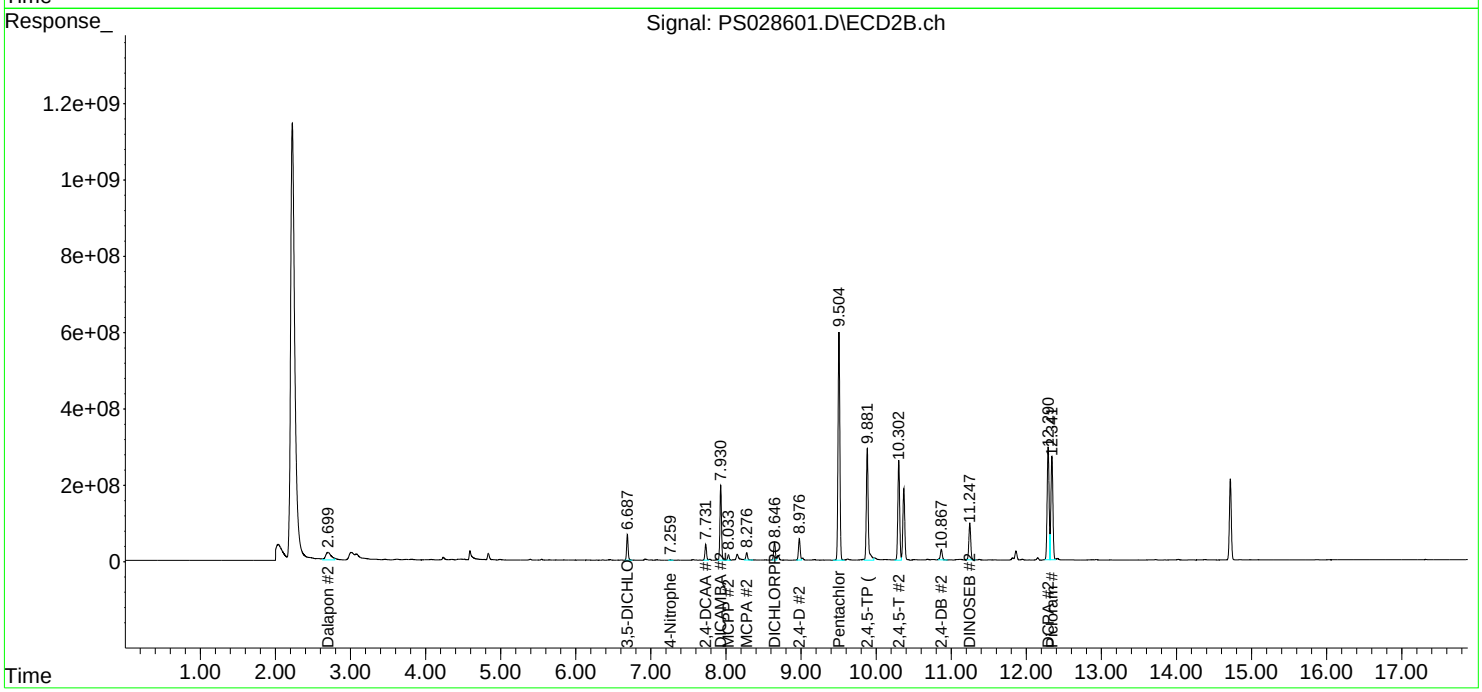
Instrument :
ECD_S
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:02:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 13:13
Operator : AR\AJ
Sample : P4892-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:03:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.231	7.731	1417.8E6	607.4E6	554.721m	470.031
		Target Compounds						
1)	T	Dalapon	2.637	2.698	1180.3E6	945.8E6	351.332	390.822m
2)	T	3,5-DICHL...	6.404	6.687	2031.6E6	929.2E6	544.474	480.871
3)	T	4-Nitroph...	7.031	7.260	25982294	11992137	15.298	13.890m
5)	T	DICAMBA	7.419	7.931	5753.3E6	2873.2E6	525.805	503.716
6)	T	MCPP	7.600	8.033	332.7E6	207.8E6	47.298m	48.313
7)	T	MCPA	7.749	8.277	516.3E6	318.3E6	50.591	51.386
8)	T	DICHLORPROP	8.126	8.646	1604.0E6	738.1E6	543.494	505.356
9)	T	2,4-D	8.357	8.977	1999.0E6	897.5E6	625.287	573.284
10)	T	Pentachlo...	8.656	9.505	23238.6E6	10173.9E6	556.799	507.543
11)	T	2,4,5-TP ...	9.234	9.882	10430.0E6	5490.4E6	600.435m	650.656
12)	T	2,4,5-T	9.527	10.301	10170.4E6	4482.0E6	572.190	534.696
13)	T	2,4-DB	10.102	10.867	1328.5E6	498.6E6	487.425	475.913m
14)	T	DINOSEB	11.313	11.247	4904.4E6	1675.6E6	343.981	303.092
15)	T	Picloram	11.120	12.341	13374.3E6	5037.2E6	474.942	445.024
16)	T	DCPA	11.604	12.291	12311.4E6	5423.0E6	467.877	559.163

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112224\
Data File : PS028602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 13:13
Operator : AR\AJ
Sample : P4892-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

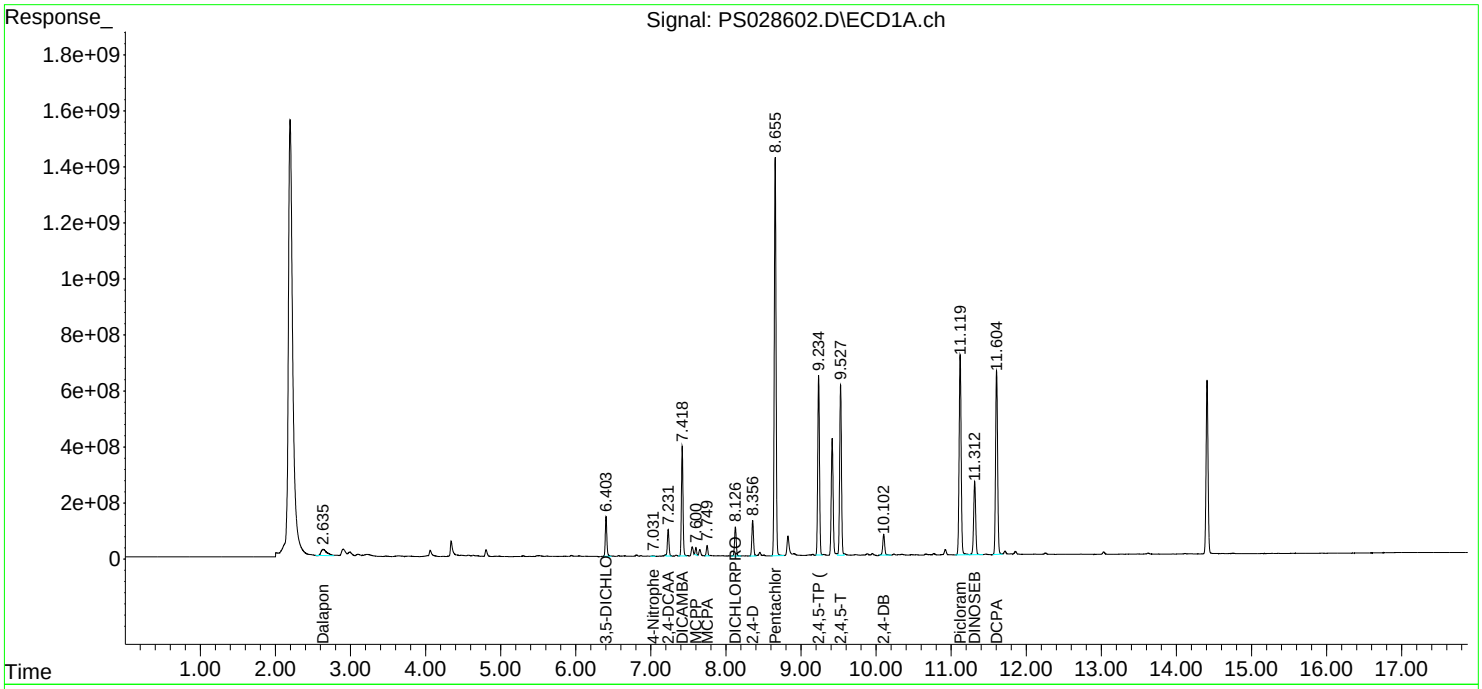
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 21:03:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

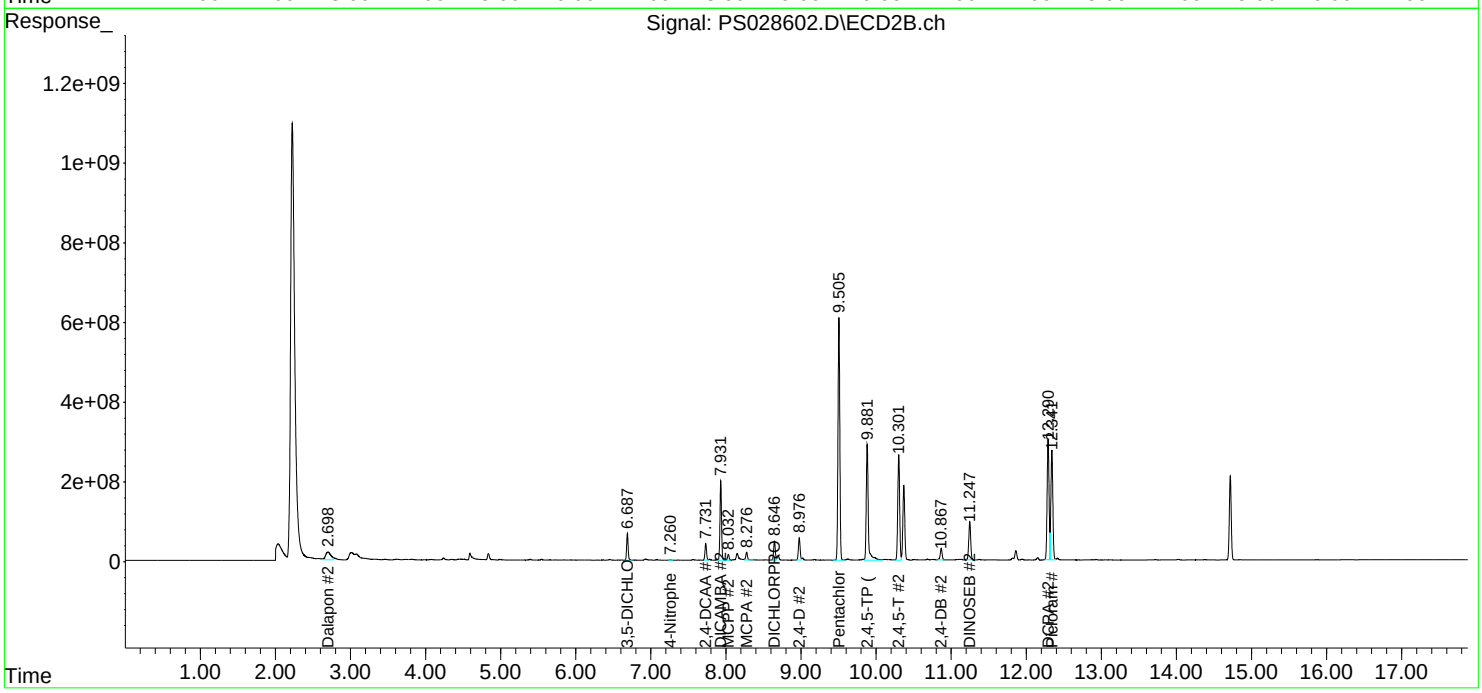
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/25/2024
Supervised By :Ankita Jodhani 11/25/2024





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

Manual Integration Report

Sequence:	PS111324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028528.D	2,4-DCAA	yogesh	11/14/2024 8:46:06 AM	Ankita	11/14/2024 11:10:19	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS112224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028595.D	2,4-DCAA	yogesh	11/25/2024 8:55:43 AM	Ankita	11/25/2024 10:08:02	Peak Integrated by Software
I.BLK	PS028595.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:43 AM	Ankita	11/25/2024 10:08:02	Peak Integrated by Software
HSTDCCC750	PS028596.D	2,4,5-TP (SILVEX)	yogesh	11/25/2024 8:55:46 AM	Ankita	11/25/2024 10:08:04	Peak Integrated by Software
HSTDCCC750	PS028596.D	2,4-DCAA	yogesh	11/25/2024 8:55:46 AM	Ankita	11/25/2024 10:08:04	Peak Integrated by Software
HSTDCCC750	PS028596.D	MCPA #2	yogesh	11/25/2024 8:55:46 AM	Ankita	11/25/2024 10:08:04	Peak Integrated by Software
HSTDCCC750	PS028596.D	MCPP #2	yogesh	11/25/2024 8:55:46 AM	Ankita	11/25/2024 10:08:04	Peak Integrated by Software
PB165193BL	PS028597.D	2,4-DCAA	yogesh	11/25/2024 8:55:47 AM	Ankita	11/25/2024 10:08:06	Peak Integrated by Software
PB165193BL	PS028597.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:47 AM	Ankita	11/25/2024 10:08:06	Peak Integrated by Software
PB165193BS	PS028598.D	2,4,5-TP (SILVEX)	yogesh	11/25/2024 8:55:50 AM	Ankita	11/25/2024 10:08:09	Peak Integrated by Software
PB165193BS	PS028598.D	2,4-DCAA	yogesh	11/25/2024 8:55:50 AM	Ankita	11/25/2024 10:08:09	Peak Integrated by Software
PB165193BS	PS028598.D	4-Nitrophenol #2	yogesh	11/25/2024 8:55:50 AM	Ankita	11/25/2024 10:08:09	Peak Integrated by Software
PB165060TB	PS028599.D	2,4-DCAA	yogesh	11/25/2024 8:55:52 AM	Ankita	11/25/2024 10:08:12	Peak Integrated by Software
PB165060TB	PS028599.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:52 AM	Ankita	11/25/2024 10:08:12	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS112224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4892-03	PS028600.D	2,4-DCAA	yogesh	11/25/2024 8:55:53 AM	Ankita	11/25/2024 10:08:14	Peak Integrated by Software
P4892-03	PS028600.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:53 AM	Ankita	11/25/2024 10:08:14	Peak Integrated by Software
P4892-03MS	PS028601.D	2,4-DCAA	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	4-Nitrophenol #2	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	Dalapon	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	Dalapon #2	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	DICAMBA	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MS	PS028601.D	MCPP	yogesh	11/25/2024 8:55:55 AM	Ankita	11/25/2024 10:08:16	Peak Integrated by Software
P4892-03MSD	PS028602.D	2,4,5-TP (SILVEX)	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software
P4892-03MSD	PS028602.D	2,4-DB #2	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software
P4892-03MSD	PS028602.D	2,4-DCAA	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software
P4892-03MSD	PS028602.D	4-Nitrophenol #2	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS112224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4892-03MSD	PS028602.D	Dalapon #2	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software
P4892-03MSD	PS028602.D	MCPP	yogesh	11/25/2024 8:55:57 AM	Ankita	11/25/2024 10:08:18	Peak Integrated by Software
I.BLK	PS028603.D	2,4-DCAA	yogesh	11/25/2024 8:55:59 AM	Ankita	11/25/2024 10:08:21	Peak Integrated by Software
I.BLK	PS028603.D	2,4-DCAA #2	yogesh	11/25/2024 8:55:59 AM	Ankita	11/25/2024 10:08:21	Peak Integrated by Software
HSTDCCC750	PS028604.D	2,4,5-TP (SILVEX)	yogesh	11/25/2024 8:56:00 AM	Ankita	11/25/2024 10:08:23	Peak Integrated by Software
HSTDCCC750	PS028604.D	2,4-DCAA	yogesh	11/25/2024 8:56:00 AM	Ankita	11/25/2024 10:08:23	Peak Integrated by Software
HSTDCCC750	PS028604.D	DICHLORPROP	yogesh	11/25/2024 8:56:00 AM	Ankita	11/25/2024 10:08:23	Peak Integrated by Software
I.BLK	PS028610.D	2,4-DCAA	yogesh	11/25/2024 8:56:09 AM	Ankita	11/25/2024 10:08:37	Peak Integrated by Software
I.BLK	PS028610.D	2,4-DCAA #2	yogesh	11/25/2024 8:56:09 AM	Ankita	11/25/2024 10:08:37	Peak Integrated by Software
HSTDCCC750	PS028611.D	2,4,5-TP (SILVEX)	yogesh	11/25/2024 8:56:11 AM	Ankita	11/25/2024 10:08:39	Peak Integrated by Software
HSTDCCC750	PS028611.D	2,4-DCAA	yogesh	11/25/2024 8:56:11 AM	Ankita	11/25/2024 10:08:39	Peak Integrated by Software
HSTDCCC750	PS028611.D	DICHLORPROP	yogesh	11/25/2024 8:56:11 AM	Ankita	11/25/2024 10:08:39	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS112224	Instrument	ECD_s

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

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028484.D	13 Nov 2024 08:41	AR\AJ	Ok
2	I.BLK	PS028485.D	13 Nov 2024 09:06	AR\AJ	Not Ok
3	HSTDCCC750	PS028486.D	13 Nov 2024 10:56	AR\AJ	Not Ok
4	I.BLK	PS028487.D	13 Nov 2024 11:20	AR\AJ	Ok
5	HSTDICC200	PS028488.D	13 Nov 2024 11:44	AR\AJ	Ok
6	HSTDICC500	PS028489.D	13 Nov 2024 12:09	AR\AJ	Ok
7	HSTDICC750	PS028490.D	13 Nov 2024 12:34	AR\AJ	Ok
8	HSTDICC1000	PS028491.D	13 Nov 2024 12:58	AR\AJ	Ok
9	HSTDICC1500	PS028492.D	13 Nov 2024 13:23	AR\AJ	Ok
10	HSTDICV750	PS028493.D	13 Nov 2024 13:48	AR\AJ	Ok
11	I.BLK	PS028494.D	13 Nov 2024 14:12	AR\AJ	Ok
12	HSTDCCC750	PS028495.D	13 Nov 2024 14:37	AR\AJ	Ok
13	P4793-01	PS028496.D	13 Nov 2024 15:02	AR\AJ	Ok,M
14	P4795-01	PS028497.D	13 Nov 2024 15:26	AR\AJ	Ok,M
15	PB164863BL	PS028498.D	13 Nov 2024 15:51	AR\AJ	Ok
16	PB164863BS	PS028499.D	13 Nov 2024 16:15	AR\AJ	Ok
17	P4756-01	PS028500.D	13 Nov 2024 16:40	AR\AJ	Ok,M
18	P4756-01MS	PS028501.D	13 Nov 2024 17:05	AR\AJ	Ok,M
19	P4756-01MSD	PS028502.D	13 Nov 2024 17:29	AR\AJ	Ok,M
20	P4798-01	PS028503.D	13 Nov 2024 17:54	AR\AJ	Ok,M
21	P4807-01	PS028504.D	13 Nov 2024 18:18	AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4807-05	PS028505.D	13 Nov 2024 18:42	AR\AJ	Ok
23	I.BLK	PS028506.D	13 Nov 2024 19:07	AR\AJ	Ok
24	HSTDCCC750	PS028507.D	13 Nov 2024 19:32	AR\AJ	Ok
25	P4807-09	PS028508.D	13 Nov 2024 19:56	AR\AJ	Ok
26	P4807-13	PS028509.D	13 Nov 2024 20:21	AR\AJ	Ok
27	P4809-01	PS028510.D	13 Nov 2024 20:45	AR\AJ	Ok,M
28	PB164946BL	PS028511.D	13 Nov 2024 21:10	AR\AJ	Ok
29	PB164946BS	PS028512.D	13 Nov 2024 21:35	AR\AJ	Ok,M
30	P4788-01MS	PS028513.D	13 Nov 2024 21:59	AR\AJ	Ok,M
31	P4788-01MSD	PS028514.D	13 Nov 2024 22:24	AR\AJ	Ok,M
32	I.BLK	PS028515.D	13 Nov 2024 22:48	AR\AJ	Ok
33	HSTDCCC750	PS028516.D	13 Nov 2024 23:13	AR\AJ	Ok
34	PB164959BL	PS028517.D	13 Nov 2024 23:37	AR\AJ	Ok
35	PB164959BS	PS028518.D	14 Nov 2024 00:02	AR\AJ	Ok
36	PB164880TB	PS028519.D	14 Nov 2024 00:26	AR\AJ	Ok
37	P4799-03	PS028520.D	14 Nov 2024 00:51	AR\AJ	Ok
38	P4799-03MS	PS028521.D	14 Nov 2024 01:15	AR\AJ	Ok,M
39	P4799-03MSD	PS028522.D	14 Nov 2024 01:40	AR\AJ	Ok,M
40	P4799-07	PS028523.D	14 Nov 2024 02:05	AR\AJ	Ok
41	P4799-11	PS028524.D	14 Nov 2024 02:29	AR\AJ	Not Ok
42	P4799-15	PS028525.D	14 Nov 2024 02:54	AR\AJ	Ok
43	P4799-19	PS028526.D	14 Nov 2024 03:18	AR\AJ	Ok
44	I.BLK	PS028527.D	14 Nov 2024 03:43	AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	HSTDCCC750	PS028528.D	14 Nov 2024 04:08	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS112224

Review By	yogesh	Review On	11/25/2024 8:56:24 AM		
Supervise By	Ankita	Supervise On	11/25/2024 10:09:11 AM		
SubDirectory	PS112224	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028594.D	22 Nov 2024 09:13	AR\AJ	Ok
2	I.BLK	PS028595.D	22 Nov 2024 09:37	AR\AJ	Ok,M
3	HSTDCCC750	PS028596.D	22 Nov 2024 10:25	AR\AJ	Ok,M
4	PB165193BL	PS028597.D	22 Nov 2024 11:13	AR\AJ	Ok,M
5	PB165193BS	PS028598.D	22 Nov 2024 11:37	AR\AJ	Ok,M
6	PB165060TB	PS028599.D	22 Nov 2024 12:01	AR\AJ	Ok,M
7	P4892-03	PS028600.D	22 Nov 2024 12:25	AR\AJ	Ok,M
8	P4892-03MS	PS028601.D	22 Nov 2024 12:49	AR\AJ	Ok,M
9	P4892-03MSD	PS028602.D	22 Nov 2024 13:13	AR\AJ	Ok,M
10	I.BLK	PS028603.D	22 Nov 2024 13:37	AR\AJ	Ok,M
11	HSTDCCC750	PS028604.D	22 Nov 2024 14:25	AR\AJ	Ok,M
12	P4495-17	PS028605.D	22 Nov 2024 16:26	AR\AJ	Not Ok
13	PB165201BL	PS028606.D	22 Nov 2024 16:50	AR\AJ	Ok,M
14	PB165201BS	PS028607.D	22 Nov 2024 17:14	AR\AJ	Ok,M
15	PB165201BSD	PS028608.D	22 Nov 2024 17:38	AR\AJ	Ok,M
16	P4947-01	PS028609.D	22 Nov 2024 18:02	AR\AJ	Ok,M
17	I.BLK	PS028610.D	22 Nov 2024 18:26	AR\AJ	Ok,M
18	HSTDCCC750	PS028611.D	22 Nov 2024 18:50	AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028484.D	13 Nov 2024 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS028485.D	13 Nov 2024 09:06	Need ICAL	AR\AJ	Not Ok
3	HSTDCCC750	HSTDCCC750	PS028486.D	13 Nov 2024 10:56	Need ICAL	AR\AJ	Not Ok
4	I.BLK	I.BLK	PS028487.D	13 Nov 2024 11:20		AR\AJ	Ok
5	HSTDICC200	HSTDICC200	PS028488.D	13 Nov 2024 11:44		AR\AJ	Ok
6	HSTDICC500	HSTDICC500	PS028489.D	13 Nov 2024 12:09		AR\AJ	Ok
7	HSTDICC750	HSTDICC750	PS028490.D	13 Nov 2024 12:34		AR\AJ	Ok
8	HSTDICC1000	HSTDICC1000	PS028491.D	13 Nov 2024 12:58		AR\AJ	Ok
9	HSTDICC1500	HSTDICC1500	PS028492.D	13 Nov 2024 13:23		AR\AJ	Ok
10	HSTDICV750	ICVPS111324	PS028493.D	13 Nov 2024 13:48		AR\AJ	Ok
11	I.BLK	I.BLK	PS028494.D	13 Nov 2024 14:12		AR\AJ	Ok
12	HSTDCCC750	HSTDCCC750	PS028495.D	13 Nov 2024 14:37		AR\AJ	Ok
13	P4793-01	M00-24-00345	PS028496.D	13 Nov 2024 15:02		AR\AJ	Ok,M
14	P4795-01	LAW-23-00189	PS028497.D	13 Nov 2024 15:26		AR\AJ	Ok,M
15	PB164863BL	PB164863BL	PS028498.D	13 Nov 2024 15:51		AR\AJ	Ok
16	PB164863BS	PB164863BS	PS028499.D	13 Nov 2024 16:15		AR\AJ	Ok
17	P4756-01	BP-B4	PS028500.D	13 Nov 2024 16:40		AR\AJ	Ok,M
18	P4756-01MS	BP-B4MS	PS028501.D	13 Nov 2024 17:05	Some compound recovery fail	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4756-01MSD	BP-B4MSD	PS028502.D	13 Nov 2024 17:29	some compound recovery fail	AR\AJ	Ok,M
20	P4798-01	MH-6	PS028503.D	13 Nov 2024 17:54		AR\AJ	Ok,M
21	P4807-01	TP-7	PS028504.D	13 Nov 2024 18:18		AR\AJ	Ok
22	P4807-05	BF-F14	PS028505.D	13 Nov 2024 18:42		AR\AJ	Ok
23	I.BLK	I.BLK	PS028506.D	13 Nov 2024 19:07		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS028507.D	13 Nov 2024 19:32		AR\AJ	Ok
25	P4807-09	BF-F13	PS028508.D	13 Nov 2024 19:56		AR\AJ	Ok
26	P4807-13	TP-6	PS028509.D	13 Nov 2024 20:21		AR\AJ	Ok
27	P4809-01	MH-5	PS028510.D	13 Nov 2024 20:45		AR\AJ	Ok,M
28	PB164946BL	PB164946BL	PS028511.D	13 Nov 2024 21:10		AR\AJ	Ok
29	PB164946BS	PB164946BS	PS028512.D	13 Nov 2024 21:35		AR\AJ	Ok,M
30	P4788-01MS	BP-G3MS	PS028513.D	13 Nov 2024 21:59	Some compound recovery fail	AR\AJ	Ok,M
31	P4788-01MSD	BP-G3MSD	PS028514.D	13 Nov 2024 22:24	Some compound recovery fail	AR\AJ	Ok,M
32	I.BLK	I.BLK	PS028515.D	13 Nov 2024 22:48		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028516.D	13 Nov 2024 23:13		AR\AJ	Ok
34	PB164959BL	PB164959BL	PS028517.D	13 Nov 2024 23:37		AR\AJ	Ok
35	PB164959BS	PB164959BS	PS028518.D	14 Nov 2024 00:02	Recovery Fail in DINOSEB-I	AR\AJ	Ok
36	PB164880TB	PB164880TB	PS028519.D	14 Nov 2024 00:26		AR\AJ	Ok
37	P4799-03	WC-TA2-02-C	PS028520.D	14 Nov 2024 00:51		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM		
SubDirectory	PS111324	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4799-03MS	WC-TA2-02-CMS	PS028521.D	14 Nov 2024 01:15	Some compound recovery fail	AR\AJ	Ok,M
39	P4799-03MSD	WC-TA2-02-CMSD	PS028522.D	14 Nov 2024 01:40	Some compound recovery fail	AR\AJ	Ok,M
40	P4799-07	WC-TA2-03-C	PS028523.D	14 Nov 2024 02:05		AR\AJ	Ok
41	P4799-11	WC-TA1-01-C	PS028524.D	14 Nov 2024 02:29	will be reanalyzed for confirmation	AR\AJ	Not Ok
42	P4799-15	WC-TA1-02-C	PS028525.D	14 Nov 2024 02:54		AR\AJ	Ok
43	P4799-19	WC-TA1-03-C	PS028526.D	14 Nov 2024 03:18		AR\AJ	Ok
44	I.BLK	I.BLK	PS028527.D	14 Nov 2024 03:43		AR\AJ	Ok
45	HSTDCCC750	HSTDCCC750	PS028528.D	14 Nov 2024 04:08		AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS112224

Review By	yogesh	Review On	11/25/2024 8:56:24 AM		
Supervise By	Ankita	Supervise On	11/25/2024 10:09:11 AM		
SubDirectory	PS112224	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028594.D	22 Nov 2024 09:13		AR\AJ	Ok
2	I.BLK	I.BLK	PS028595.D	22 Nov 2024 09:37		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028596.D	22 Nov 2024 10:25	MCPA is lower side fail	AR\AJ	Ok,M
4	PB165193BL	PB165193BL	PS028597.D	22 Nov 2024 11:13		AR\AJ	Ok,M
5	PB165193BS	PB165193BS	PS028598.D	22 Nov 2024 11:37		AR\AJ	Ok,M
6	PB165060TB	PB165060TB	PS028599.D	22 Nov 2024 12:01		AR\AJ	Ok,M
7	P4892-03	WB-310-BOT	PS028600.D	22 Nov 2024 12:25		AR\AJ	Ok,M
8	P4892-03MS	WB-310-BOTMS	PS028601.D	22 Nov 2024 12:49	Some compound recovery fail	AR\AJ	Ok,M
9	P4892-03MSD	WB-310-BOTMSD	PS028602.D	22 Nov 2024 13:13	Some compound recovery fail	AR\AJ	Ok,M
10	I.BLK	I.BLK	PS028603.D	22 Nov 2024 13:37		AR\AJ	Ok,M
11	HSTDCCC750	HSTDCCC750	PS028604.D	22 Nov 2024 14:25		AR\AJ	Ok,M
12	P4495-17	PT-HERB-SOIL	PS028605.D	22 Nov 2024 16:26	sample reanalyzed	AR\AJ	Not Ok
13	PB165201BL	PB165201BL	PS028606.D	22 Nov 2024 16:50		AR\AJ	Ok,M
14	PB165201BS	PB165201BS	PS028607.D	22 Nov 2024 17:14		AR\AJ	Ok,M
15	PB165201BSD	PB165201BSD	PS028608.D	22 Nov 2024 17:38		AR\AJ	Ok,M
16	P4947-01	A3988	PS028609.D	22 Nov 2024 18:02		AR\AJ	Ok,M
17	I.BLK	I.BLK	PS028610.D	22 Nov 2024 18:26		AR\AJ	Ok,M
18	HSTDCCC750	HSTDCCC750	PS028611.D	22 Nov 2024 18:50		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS112224

Review By	yogesh	Review On	11/25/2024 8:56:24 AM		
Supervise By	Ankita	Supervise On	11/25/2024 10:09:11 AM		
SubDirectory	PS112224	HP Acquire Method		HP Processing Method	PS111324

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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

TCLP Filter ID : 114771

Start Prep Date : 11/18/2024 **Time :** 16:00

End Prep Date : 11/19/2024 **Time :** 08:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Particle size reduction is not required. p4910-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 10:30	JP / TCLP Room	RS / Met Dig
	Preparation Group	**Analysis Group** RS / EXT

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

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TCLP Solid Determination

PB165060

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4890-06	D3721	N/A	N/A	N/A	N/A	100	N/A
P4892-03	WB-310-BOT	N/A	N/A	N/A	N/A	100	N/A
P4893-04	MH-763	N/A	N/A	N/A	N/A	100	N/A
P4893-08	MH-762	N/A	N/A	N/A	N/A	100	N/A
P4910-04	MH-COTTAGE	N/A	N/A	N/A	N/A	100	N/A
P4910-08	MH-759	N/A	N/A	N/A	N/A	100	N/A
PB165060TB	LEB060	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB165060

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
P4890-06	D3721	5.02	96.5	6.2	2.5	#1	4.94
P4892-03	WB-310-BOT	5.03	96.5	8.6	3.5	#1	4.94
P4893-04	MH-763	5.02	96.5	8.6	3.5	#1	4.94
P4893-08	MH-762	5.01	96.5	8.0	3.0	#1	4.94
P4910-04	MH-COTTAGE	5.02	96.5	9.1	4.5	#1	4.94
P4910-08	MH-759	5.03	96.5	8.6	4.0	#1	4.94
PB165060TB	LEB060	N/A	N/A	N/A	N/A	#1	4.94

P4892

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4892 **WorkList ID :** 185532 **Department :** TCLP Extraction **Date :** 11-18-2024 12:28:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4890-06	D3721	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		11/15/2024	1311
P4892-03	WB-310-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	M11	11/15/2024	1311
P4893-04	MH-763	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4893-08	MH-762	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	11/16/2024	1311
P4910-04	MH-COTTAGE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311
P4910-08	MH-759	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	11/18/2024	1311

1126 of 1349

Date/Time 11-18-24 15:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11-18-24 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165193

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/21/2024
Matrix :	Water			**Extraction Start Time :**	09:41
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/21/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:55
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23930
Surrogate	1.0ML	5000 PPB	PP23949
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	e3370
Acidified Na2SO4	N/A	EP2503
NAOH 6N	N/A	ep2553
1:3 SULPHURIC ACID	N/A	ep2528
NACL	N/A	m4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	ep2529
Hexane	N/A	e3826
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/21/24	RP (Sat Lab)	Y.P. PEST IP CB
17:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165193

Analytical Method: M8151A-Herbicide-22 **Concentration Date:** 11/21/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165060TB	PB165060TB	TCLP Herbicide	100	6	RUPESH	rajesh	10			SEP-01
PB165193BL	HBLK193	TCLP Herbicide	1000	6	RUPESH	rajesh	10			2
PB165193BS	HLCS193	TCLP Herbicide	1000	6	RUPESH	rajesh	10			3
P4892-03	WB-310-BOT	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		4
P4892-03MS	WB-310-BOTMS	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		5
P4892-03MSD	WB-310-BOTMSD	TCLP Herbicide	100	6	RUPESH	rajesh	10	A		6

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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	
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/19/2024
10:30

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
			EPH	NJEPH		11/21/24	11/22/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			PCB	8082A		11/19/24	11/19/24	
			EPH	NJEPH		11/21/24	11/22/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP Herbicide	8151A		11/21/24	11/22/24	
			TCLP Pesticide	8081B		11/20/24	11/22/24	
P4892-04	**WB-310-SW**	**WATER**			**11/15/24**			**11/15/24**
			PCB	8082A		11/20/24	11/20/24	
			EPH	NJEPH		11/20/24	11/21/24	

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.: P4892 **Order ID:** P4892

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-310-TOP								
P4892-01	WB-310-TOP	SOIL	Aluminum	9190		3.71	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Arsenic	32.4		0.45	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Barium	207		0.99	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Beryllium	0.85		0.018	0.46	mg/Kg
P4892-01	WB-310-TOP	SOIL	Cadmium	7.10		0.025	0.46	mg/Kg
P4892-01	WB-310-TOP	SOIL	Calcium	2890		4.32	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Chromium	294	D	0.42	3.85	mg/Kg
P4892-01	WB-310-TOP	SOIL	Cobalt	8.36		0.089	2.31	mg/Kg
P4892-01	WB-310-TOP	SOIL	Copper	256		0.72	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Iron	20600		4.15	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Lead	341		0.23	0.93	mg/Kg
P4892-01	WB-310-TOP	SOIL	Magnesium	4130		5.29	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Manganese	214		0.11	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Mercury	5.09	D	0.088	0.20	mg/Kg
P4892-01	WB-310-TOP	SOIL	Nickel	41.5		0.14	3.08	mg/Kg
P4892-01	WB-310-TOP	SOIL	Potassium	1370		44.2	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Silver	3.28		0.080	0.77	mg/Kg
P4892-01	WB-310-TOP	SOIL	Sodium	4370		55.6	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Vanadium	33.1		0.42	3.08	mg/Kg
P4892-01	WB-310-TOP	SOIL	Zinc	573		0.17	3.08	mg/Kg
Client ID : WB-310-BOT								
P4892-02	WB-310-BOT	SOIL	Aluminum	3700		2.39	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Arsenic	1.44		0.29	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Barium	13.7		0.64	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Beryllium	0.39		0.012	0.30	mg/Kg
P4892-02	WB-310-BOT	SOIL	Cadmium	1.16		0.016	0.30	mg/Kg
P4892-02	WB-310-BOT	SOIL	Calcium	5530		2.78	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Chromium	8.36		0.054	0.50	mg/Kg
P4892-02	WB-310-BOT	SOIL	Cobalt	5.55		0.058	1.49	mg/Kg
P4892-02	WB-310-BOT	SOIL	Copper	8.86		0.47	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Iron	12300		2.67	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Lead	5.52		0.15	0.60	mg/Kg
P4892-02	WB-310-BOT	SOIL	Magnesium	3310		3.40	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Manganese	281		0.070	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Mercury	0.0070	J	0.0060	0.014	mg/Kg
P4892-02	WB-310-BOT	SOIL	Nickel	9.95		0.089	1.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Potassium	678		28.5	99.3	mg/Kg

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

Hit Summary Sheet
SW-846

SDG No.: P4892 **Order ID:** P4892

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4892-02	WB-310-BOT	SOIL	Sodium	804		35.8	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Vanadium	11.4		0.27	1.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Zinc	21.1		0.11	1.99	mg/Kg
Client ID :	**WB-310-SW**							
P4892-04	WB-310-SW	Water	Aluminum	453		28.3	50.0	ug/L
P4892-04	WB-310-SW	Water	Barium	30.4	J	6.28	50.0	ug/L
P4892-04	WB-310-SW	Water	Calcium	225000		33.0	1000	ug/L
P4892-04	WB-310-SW	Water	Chromium	3.06	J	0.66	5.00	ug/L
P4892-04	WB-310-SW	Water	Iron	530		18.5	50.0	ug/L
P4892-04	WB-310-SW	Water	Magnesium	704000		39.4	1000	ug/L
P4892-04	WB-310-SW	Water	Manganese	53.9		1.46	10.0	ug/L
P4892-04	WB-310-SW	Water	Nickel	2.30	J	0.85	20.0	ug/L
P4892-04	WB-310-SW	Water	Potassium	565000		685	1000	ug/L
P4892-04	WB-310-SW	Water	Sodium	6450000	D	2370	10000	ug/L
P4892-04	WB-310-SW	Water	Vanadium	3.83	J	3.06	20.0	ug/L
P4892-04	WB-310-SW	Water	Zinc	20.5		1.75	20.0	ug/L

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	59.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9190		1	3.71	7.71	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-36-0	Antimony	0.23	U	1	0.23	3.85	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-38-2	Arsenic	32.4		1	0.45	1.54	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-39-3	Barium	207		1	0.99	7.71	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-41-7	Beryllium	0.85		1	0.018	0.46	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-43-9	Cadmium	7.10		1	0.025	0.46	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-70-2	Calcium	2890		1	4.32	154	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-47-3	Chromium	294	D	5	0.42	3.85	mg/Kg	11/18/24 15:30	11/19/24 15:53	SW6010	SW3050
7440-48-4	Cobalt	8.36		1	0.089	2.31	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-50-8	Copper	256		1	0.72	1.54	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7439-89-6	Iron	20600		1	4.15	7.71	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7439-92-1	Lead	341		1	0.23	0.93	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7439-95-4	Magnesium	4130		1	5.29	154	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7439-96-5	Manganese	214	N	1	0.11	1.54	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7439-97-6	Mercury	5.09	D	10	0.088	0.20	mg/Kg	11/19/24 11:05	11/19/24 17:03	SW7471B	
7440-02-0	Nickel	41.5		1	0.14	3.08	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-09-7	Potassium	1370		1	44.2	154	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7782-49-2	Selenium	0.51	U	1	0.51	1.54	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-22-4	Silver	3.28		1	0.080	0.77	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-23-5	Sodium	4370		1	55.6	154	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-28-0	Thallium	0.68	U	1	0.68	3.08	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-62-2	Vanadium	33.1		1	0.42	3.08	mg/Kg	11/18/24 15:30	11/19/24 13:22	SW6010	SW3050
7440-66-6	Zinc	573	N	1	0.17	3.08	mg/Kg	11/18/24 15:30	11/19/24 13:22	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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3700		1	2.39	4.96	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-36-0	Antimony	0.15	U	1	0.15	2.48	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-38-2	Arsenic	1.44		1	0.29	0.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-39-3	Barium	13.7		1	0.64	4.96	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-41-7	Beryllium	0.39		1	0.012	0.30	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-43-9	Cadmium	1.16		1	0.016	0.30	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-70-2	Calcium	5530		1	2.78	99.3	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-47-3	Chromium	8.36		1	0.054	0.50	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-48-4	Cobalt	5.55		1	0.058	1.49	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-50-8	Copper	8.86		1	0.47	0.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7439-89-6	Iron	12300		1	2.67	4.96	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7439-92-1	Lead	5.52		1	0.15	0.60	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7439-95-4	Magnesium	3310		1	3.40	99.3	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7439-96-5	Manganese	281	N	1	0.070	0.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7439-97-6	Mercury	0.0070	J	1	0.0060	0.014	mg/Kg	11/19/24 11:05	11/19/24 16:28	SW7471B	
7440-02-0	Nickel	9.95		1	0.089	1.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-09-7	Potassium	678		1	28.5	99.3	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7782-49-2	Selenium	0.33	U	1	0.33	0.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-22-4	Silver	0.052	U	1	0.052	0.50	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-23-5	Sodium	804		1	35.8	99.3	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-28-0	Thallium	0.44	U	1	0.44	1.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-62-2	Vanadium	11.4		1	0.27	1.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050
7440-66-6	Zinc	21.1	N	1	0.11	1.99	mg/Kg	11/18/24 15:30	11/19/24 13:26	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	453	N	1	28.3	50.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-36-0	Antimony	2.06	UN	1	2.06	25.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-38-2	Arsenic	3.48	UN	1	3.48	10.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-39-3	Barium	30.4	J	1	6.28	50.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-70-2	Calcium	225000		1	33.0	1000	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-47-3	Chromium	3.06	J	1	0.66	5.00	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7439-89-6	Iron	530		1	18.5	50.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7439-95-4	Magnesium	704000		1	39.4	1000	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7439-96-5	Manganese	53.9		1	1.46	10.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	11/21/24 15:10	11/22/24 10:20	SW7470A	
7440-02-0	Nickel	2.30	J	1	0.85	20.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-09-7	Potassium	565000		1	685	1000	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7782-49-2	Selenium	5.88	UN	1	5.88	10.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-23-5	Sodium	6450000	D	10	2370	10000	ug/L	11/22/24 09:15	11/25/24 16:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-62-2	Vanadium	3.83	J	1	3.06	20.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010
7440-66-6	Zinc	20.5	N	1	1.75	20.0	ug/L	11/22/24 09:15	11/25/24 15:50	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB91	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	15:32	LB133516

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Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	15:39	LB133516
CCB11	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	16:07	LB133516
CCB12	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	16:41	LB133516
CCB13	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	17:08	LB133516

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Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB97	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	08:55	LB133570

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Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB31	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	08:59	LB133570
CCB32	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	09:32	LB133570
CCB33	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	09:59	LB133570
CCB34	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	10:31	LB133570
CCB35	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	10:52	LB133570
CCB36	Mercury	0.20	+/-0.20	U	0.20	CV	11/22/2024	11:19	LB133570

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/19/2024	11:38	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	11:38	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	11:38	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	11:38	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	11:38	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	11:38	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	11:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	11:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	11:38	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	11:38	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/19/2024	12:48	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	12:48	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	12:48	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	12:48	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	12:48	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	12:48	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	12:48	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	12:48	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	12:48	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	12:48	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
CCB02	Aluminum	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	13:38	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	13:38	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	13:38	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	13:38	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	13:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	13:38	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524

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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	13:38	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
CCB03	Aluminum	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	14:28	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	14:28	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	14:28	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	14:28	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	14:28	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	14:28	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	14:28	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
CCB04	Aluminum	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	15:36	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	15:36	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	15:36	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	15:36	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	15:36	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	15:36	LB133524

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	15:36	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
CCB05	Aluminum	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	16:22	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	16:22	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	16:22	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	16:22	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	16:22	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	16:22	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	16:22	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
CCB06	Aluminum	100	+/-100	U	100	P	11/19/2024	17:24	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	17:24	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Barium	22.0	+/-100	J	100	P	11/19/2024	17:24	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	17:24	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	17:24	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	17:24	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	17:24	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	17:24	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	17:24	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Manganese	6.51	+/-20.0	J	20.0	P	11/19/2024	17:24	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	17:24	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
CCB07	Aluminum	100	+/-100	U	100	P	11/19/2024	18:05	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	18:05	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Barium	25.8	+/-100	J	100	P	11/19/2024	18:05	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	18:05	LB133524
	Cadmium	0.62	+/-6.00	J	6.00	P	11/19/2024	18:05	LB133524
	Calcium	81.8	+/-2000	J	2000	P	11/19/2024	18:05	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	18:05	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	18:05	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	18:05	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	18:05	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Manganese	7.68	+/-20.0	J	20.0	P	11/19/2024	18:05	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	18:05	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524
	Vanadium	6.34	+/-40.0	J	40.0	P	11/19/2024	18:05	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524

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Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/25/2024	13:14	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	13:14	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	13:14	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	13:14	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	13:14	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	13:14	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	13:14	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	13:14	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	13:14	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	13:14	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	13:14	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	13:14	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	13:14	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	13:14	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	13:14	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	13:14	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	13:14	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	13:14	LB133619
	Sodium	2000	+/-2000	U	2000	P	11/25/2024	13:14	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	13:14	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	13:14	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	13:14	LB133619

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/25/2024	13:53	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	13:53	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	13:53	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	13:53	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	13:53	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	13:53	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	13:53	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	13:53	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	13:53	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	13:53	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	13:53	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	13:53	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	13:53	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	13:53	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	13:53	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	13:53	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	13:53	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	13:53	LB133619
	Sodium	2000	+/-2000	U	2000	P	11/25/2024	13:53	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	13:53	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	13:53	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	13:53	LB133619
CCB02	Aluminum	100	+/-100	U	100	P	11/25/2024	14:31	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	14:31	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	14:31	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	14:31	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	14:31	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	14:31	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	14:31	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	14:31	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	14:31	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	14:31	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	14:31	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	14:31	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	14:31	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	14:31	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	14:31	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	14:31	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	14:31	LB133619

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	14:31	LB133619
	Sodium	2000	+/-2000	U	2000	P	11/25/2024	14:31	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	14:31	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	14:31	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	14:31	LB133619
CCB03	Aluminum	100	+/-100	U	100	P	11/25/2024	15:21	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	15:21	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	15:21	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	15:21	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	15:21	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	15:21	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	15:21	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	15:21	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	15:21	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	15:21	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	15:21	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	15:21	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	15:21	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	15:21	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	15:21	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	15:21	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	15:21	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	15:21	LB133619
	Sodium	2000	+/-2000	U	2000	P	11/25/2024	15:21	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	15:21	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	15:21	LB133619
	Zinc	4.85	+/-40.0	J	40.0	P	11/25/2024	15:21	LB133619
CCB04	Aluminum	100	+/-100	U	100	P	11/25/2024	16:22	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	16:22	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	16:22	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	16:22	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	16:22	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	16:22	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	16:22	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	16:22	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	16:22	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	16:22	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	16:22	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	16:22	LB133619

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Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	16:22	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	16:22	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	16:22	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	16:22	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	16:22	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	16:22	LB133619
	Sodium	744	+/-2000	J	2000	P	11/25/2024	16:22	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	16:22	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	16:22	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	16:22	LB133619
CCB05	Aluminum	100	+/-100	U	100	P	11/25/2024	17:18	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	17:18	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	17:18	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	17:18	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	17:18	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	17:18	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	17:18	LB133619
	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	17:18	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	17:18	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	17:18	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	17:18	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	17:18	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	17:18	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	17:18	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	17:18	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	17:18	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	17:18	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	17:18	LB133619
	Sodium	658	+/-2000	J	2000	P	11/25/2024	17:18	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	17:18	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	17:18	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	17:18	LB133619
CCB06	Aluminum	100	+/-100	U	100	P	11/25/2024	18:02	LB133619
	Antimony	50.0	+/-50.0	U	50.0	P	11/25/2024	18:02	LB133619
	Arsenic	20.0	+/-20.0	U	20.0	P	11/25/2024	18:02	LB133619
	Barium	100	+/-100	U	100	P	11/25/2024	18:02	LB133619
	Beryllium	6.00	+/-6.00	U	6.00	P	11/25/2024	18:02	LB133619
	Cadmium	6.00	+/-6.00	U	6.00	P	11/25/2024	18:02	LB133619
	Calcium	2000	+/-2000	U	2000	P	11/25/2024	18:02	LB133619

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	11/25/2024	18:02	LB133619
	Cobalt	30.0	+/-30.0	U	30.0	P	11/25/2024	18:02	LB133619
	Copper	20.0	+/-20.0	U	20.0	P	11/25/2024	18:02	LB133619
	Iron	100	+/-100	U	100	P	11/25/2024	18:02	LB133619
	Lead	12.0	+/-12.0	U	12.0	P	11/25/2024	18:02	LB133619
	Magnesium	2000	+/-2000	U	2000	P	11/25/2024	18:02	LB133619
	Manganese	20.0	+/-20.0	U	20.0	P	11/25/2024	18:02	LB133619
	Nickel	40.0	+/-40.0	U	40.0	P	11/25/2024	18:02	LB133619
	Potassium	2000	+/-2000	U	2000	P	11/25/2024	18:02	LB133619
	Selenium	20.0	+/-20.0	U	20.0	P	11/25/2024	18:02	LB133619
	Silver	10.0	+/-10.0	U	10.0	P	11/25/2024	18:02	LB133619
	Sodium	586	+/-2000	J	2000	P	11/25/2024	18:02	LB133619
	Thallium	40.0	+/-40.0	U	40.0	P	11/25/2024	18:02	LB133619
	Vanadium	40.0	+/-40.0	U	40.0	P	11/25/2024	18:02	LB133619
	Zinc	40.0	+/-40.0	U	40.0	P	11/25/2024	18:02	LB133619

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165113BL		**SOLID**		**Batch Number:**	**PB165113**		**Prep Date:**	**11/19/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	11/19/2024	15:48	LB133516

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165183BL		**WATER**		**Batch Number:**	**PB165183**		**Prep Date:**	**11/21/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/22/2024	10:15	LB133570

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165067BL		**SOLID**		**Batch Number:**	**PB165067**		**Prep Date:**	**11/18/2024**	
	Aluminum	4.33	<4.33	U	4.33	P	11/19/2024	12:52	LB133524
	Antimony	2.16	<2.16	U	2.16	P	11/19/2024	12:52	LB133524
	Arsenic	0.87	<0.87	U	0.87	P	11/19/2024	12:52	LB133524
	Barium	4.33	<4.33	U	4.33	P	11/19/2024	12:52	LB133524
	Beryllium	0.26	<0.26	U	0.26	P	11/19/2024	12:52	LB133524
	Cadmium	0.26	<0.26	U	0.26	P	11/19/2024	12:52	LB133524
	Calcium	86.6	<86.6	U	86.6	P	11/19/2024	12:52	LB133524
	Chromium	0.43	<0.43	U	0.43	P	11/19/2024	12:52	LB133524
	Cobalt	1.30	<1.30	U	1.30	P	11/19/2024	12:52	LB133524
	Copper	0.87	<0.87	U	0.87	P	11/19/2024	12:52	LB133524
	Iron	4.33	<4.33	U	4.33	P	11/19/2024	12:52	LB133524
	Lead	0.52	<0.52	U	0.52	P	11/19/2024	12:52	LB133524
	Magnesium	86.6	<86.6	U	86.6	P	11/19/2024	12:52	LB133524
	Manganese	0.87	<0.87	U	0.87	P	11/19/2024	12:52	LB133524
	Nickel	1.73	<1.73	U	1.73	P	11/19/2024	12:52	LB133524
	Potassium	86.6	<86.6	U	86.6	P	11/19/2024	12:52	LB133524
	Selenium	0.87	<0.87	U	0.87	P	11/19/2024	12:52	LB133524
	Silver	0.43	<0.43	U	0.43	P	11/19/2024	12:52	LB133524
	Sodium	86.6	<86.6	U	86.6	P	11/19/2024	12:52	LB133524
	Thallium	1.73	<1.73	U	1.73	P	11/19/2024	12:52	LB133524
	Vanadium	1.73	<1.73	U	1.73	P	11/19/2024	12:52	LB133524
	Zinc	1.73	<1.73	U	1.73	P	11/19/2024	12:52	LB133524

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165181BL		**WATER**		**Batch Number:**	**PB165181**		**Prep Date:**	**11/22/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	11/25/2024	17:44	LB133619
	Antimony	25.0	<25.0	U	25.0	P	11/25/2024	17:44	LB133619
	Arsenic	10.0	<10.0	U	10.0	P	11/25/2024	17:44	LB133619
	Barium	50.0	<50.0	U	50.0	P	11/25/2024	17:44	LB133619
	Beryllium	3.00	<3.00	U	3.00	P	11/25/2024	17:44	LB133619
	Cadmium	3.00	<3.00	U	3.00	P	11/25/2024	17:44	LB133619
	Calcium	1000	<1000	U	1000	P	11/25/2024	17:44	LB133619
	Chromium	5.00	<5.00	U	5.00	P	11/25/2024	17:44	LB133619
	Cobalt	15.0	<15.0	U	15.0	P	11/25/2024	17:44	LB133619
	Copper	10.0	<10.0	U	10.0	P	11/25/2024	17:44	LB133619
	Iron	50.0	<50.0	U	50.0	P	11/25/2024	17:44	LB133619
	Lead	6.00	<6.00	U	6.00	P	11/25/2024	17:44	LB133619
	Magnesium	1000	<1000	U	1000	P	11/25/2024	17:44	LB133619
	Manganese	10.0	<10.0	U	10.0	P	11/25/2024	17:44	LB133619
	Nickel	20.0	<20.0	U	20.0	P	11/25/2024	17:44	LB133619

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Instrument: P4

Potassium	1000	<1000	U	1000	P	11/25/2024	17:44	LB133619
Selenium	10.0	<10.0	U	10.0	P	11/25/2024	17:44	LB133619
Silver	5.00	<5.00	U	5.00	P	11/25/2024	17:44	LB133619
Sodium	454	<1000	J	1000	P	11/25/2024	17:44	LB133619
Thallium	20.0	<20.0	U	20.0	P	11/25/2024	17:44	LB133619
Vanadium	20.0	<20.0	U	20.0	P	11/25/2024	17:44	LB133619
Zinc	20.0	<20.0	U	20.0	P	11/25/2024	17:44	LB133619

METAL CALIBRATION DATA

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
ICV91	Mercury	3.71	4.0	93	90 - 110	CV	11/19/2024	15:27	LB133516

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
CCV10	Mercury	5.04	5.0	101	90 - 110	CV	11/19/2024	15:34	LB133516
CCV11	Mercury	5.10	5.0	102	90 - 110	CV	11/19/2024	16:05	LB133516
CCV12	Mercury	5.14	5.0	103	90 - 110	CV	11/19/2024	16:39	LB133516
CCV13	Mercury	5.24	5.0	105	90 - 110	CV	11/19/2024	17:06	LB133516

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
ICV97	Mercury	3.65	4.0	91	90 - 110	CV	11/22/2024	08:52	LB133570

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
CCV31	Mercury	5.22	5.0	104	90 - 110	CV	11/22/2024	08:57	LB133570
CCV32	Mercury	5.03	5.0	101	90 - 110	CV	11/22/2024	09:30	LB133570
CCV33	Mercury	4.88	5.0	98	90 - 110	CV	11/22/2024	09:57	LB133570
CCV34	Mercury	4.92	5.0	98	90 - 110	CV	11/22/2024	10:27	LB133570
CCV35	Mercury	5.39	5.0	108	90 - 110	CV	11/22/2024	10:47	LB133570
CCV36	Mercury	5.31	5.0	106	90 - 110	CV	11/22/2024	11:17	LB133570

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2650	2500	106	90 - 110	P	11/19/2024	11:25	LB133524
	Antimony	1010	1000	101	90 - 110	P	11/19/2024	11:25	LB133524
	Arsenic	1020	1000	102	90 - 110	P	11/19/2024	11:25	LB133524
	Barium	542	520	104	90 - 110	P	11/19/2024	11:25	LB133524
	Beryllium	536	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Cadmium	526	510	103	90 - 110	P	11/19/2024	11:25	LB133524
	Calcium	10700	10000	107	90 - 110	P	11/19/2024	11:25	LB133524
	Chromium	551	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Cobalt	531	520	102	90 - 110	P	11/19/2024	11:25	LB133524
	Copper	538	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Iron	10400	10000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Lead	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Magnesium	6280	6000	105	90 - 110	P	11/19/2024	11:25	LB133524
	Manganese	550	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Nickel	532	530	100	90 - 110	P	11/19/2024	11:25	LB133524
	Potassium	10000	9900	101	90 - 110	P	11/19/2024	11:25	LB133524
	Selenium	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Silver	261	250	105	90 - 110	P	11/19/2024	11:25	LB133524
	Sodium	9760	10000	98	90 - 110	P	11/19/2024	11:25	LB133524
	Thallium	1090	1000	109	90 - 110	P	11/19/2024	11:25	LB133524
	Vanadium	524	500	105	90 - 110	P	11/19/2024	11:25	LB133524
	Zinc	1060	1000	106	90 - 110	P	11/19/2024	11:25	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Antimony	51.1	50.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Arsenic	20.5	20.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Barium	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Beryllium	5.85	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Cadmium	5.89	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Calcium	2090	2000	105	80 - 120	P	11/19/2024	11:34	LB133524
	Chromium	10.7	10.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Cobalt	29.9	30.0	100	80 - 120	P	11/19/2024	11:34	LB133524
	Copper	22.3	20.0	112	80 - 120	P	11/19/2024	11:34	LB133524
	Iron	100	100	100	80 - 120	P	11/19/2024	11:34	LB133524
	Lead	12.4	12.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Magnesium	2040	2000	102	80 - 120	P	11/19/2024	11:34	LB133524
	Manganese	21.4	20.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Nickel	39.7	40.0	99	80 - 120	P	11/19/2024	11:34	LB133524
	Potassium	1920	2000	96	80 - 120	P	11/19/2024	11:34	LB133524
	Selenium	20.6	20.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Silver	10.1	10.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Sodium	1820	2000	91	80 - 120	P	11/19/2024	11:34	LB133524
	Thallium	39.2	40.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Vanadium	40.3	40.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Zinc	45.8	40.0	114	80 - 120	P	11/19/2024	11:34	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9940	10000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Antimony	4980	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Arsenic	4970	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Barium	10000	10000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Beryllium	249	250	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cadmium	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Calcium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Chromium	996	1000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Copper	1260	1250	101	90 - 110	P	11/19/2024	12:43	LB133524
	Iron	4880	5000	98	90 - 110	P	11/19/2024	12:43	LB133524
	Lead	4990	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Magnesium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Manganese	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Potassium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Selenium	4950	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Silver	1230	1250	98	90 - 110	P	11/19/2024	12:43	LB133524
	Sodium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Thallium	5030	5000	101	90 - 110	P	11/19/2024	12:43	LB133524
	Vanadium	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Zinc	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
CCV02	Aluminum	10600	10000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Antimony	5360	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Arsenic	5320	5000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Beryllium	262	250	105	90 - 110	P	11/19/2024	13:34	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	13:34	LB133524
	Calcium	26100	25000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Chromium	1070	1000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Cobalt	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Copper	1350	1250	108	90 - 110	P	11/19/2024	13:34	LB133524
	Iron	5270	5000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	13:34	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	26200	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Manganese	2580	2500	103	90 - 110	P	11/19/2024	13:34	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Potassium	26300	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Selenium	5340	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Silver	1320	1250	106	90 - 110	P	11/19/2024	13:34	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Thallium	5230	5000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Vanadium	2640	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	13:34	LB133524
CCV03	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Antimony	5130	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Arsenic	5110	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Barium	10300	10000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Beryllium	266	250	106	90 - 110	P	11/19/2024	14:24	LB133524
	Cadmium	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Calcium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Chromium	1040	1000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Copper	1300	1250	104	90 - 110	P	11/19/2024	14:24	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	14:24	LB133524
	Lead	5200	5000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Magnesium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Manganese	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Nickel	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Potassium	24600	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Selenium	5080	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Silver	1280	1250	102	90 - 110	P	11/19/2024	14:24	LB133524
	Sodium	24500	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Thallium	5160	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Zinc	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
CCV04	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	15:31	LB133524
	Antimony	5290	5000	106	90 - 110	P	11/19/2024	15:31	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5260	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Barium	10500	10000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	15:31	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Cobalt	2610	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	15:31	LB133524
	Iron	5080	5000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Lead	5230	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Manganese	2570	2500	103	90 - 110	P	11/19/2024	15:31	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Potassium	25500	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Selenium	5280	5000	106	90 - 110	P	11/19/2024	15:31	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	15:31	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Thallium	5410	5000	108	90 - 110	P	11/19/2024	15:31	LB133524
	Vanadium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Zinc	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
CCV05	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Antimony	5220	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Arsenic	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Beryllium	257	250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Cadmium	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Calcium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Cobalt	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Copper	1310	1250	105	90 - 110	P	11/19/2024	16:18	LB133524
	Iron	5140	5000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Lead	5170	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Magnesium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	16:18	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Potassium	25700	25000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Selenium	5240	5000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Sodium	25300	25000	101	90 - 110	P	11/19/2024	16:18	LB133524
	Thallium	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Vanadium	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Zinc	2640	2500	106	90 - 110	P	11/19/2024	16:18	LB133524
CCV06	Aluminum	10500	10000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Antimony	5280	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Arsenic	5270	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Barium	10400	10000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	17:19	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Chromium	1060	1000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	17:19	LB133524
	Iron	5190	5000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	17:19	LB133524
	Nickel	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Potassium	25900	25000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Selenium	5310	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Silver	1310	1250	105	90 - 110	P	11/19/2024	17:19	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Thallium	5300	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	17:19	LB133524
CCV07	Aluminum	10300	10000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Antimony	5080	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Arsenic	5070	5000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Barium	10600	10000	106	90 - 110	P	11/19/2024	18:01	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	256	250	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cadmium	2490	2500	99	90 - 110	P	11/19/2024	18:01	LB133524
	Calcium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Chromium	1020	1000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Copper	1290	1250	104	90 - 110	P	11/19/2024	18:01	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Lead	5020	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Magnesium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Manganese	2600	2500	104	90 - 110	P	11/19/2024	18:01	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Potassium	25200	25000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Selenium	5100	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Silver	1270	1250	101	90 - 110	P	11/19/2024	18:01	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Thallium	4940	5000	99	90 - 110	P	11/19/2024	18:01	LB133524
	Vanadium	2540	2500	102	90 - 110	P	11/19/2024	18:01	LB133524
	Zinc	2480	2500	99	90 - 110	P	11/19/2024	18:01	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	2490	2500	100	90 - 110	P	11/25/2024	12:46	LB133619
	Antimony	995	1000	100	90 - 110	P	11/25/2024	12:46	LB133619
	Arsenic	1010	1000	101	90 - 110	P	11/25/2024	12:46	LB133619
	Barium	514	520	99	90 - 110	P	11/25/2024	12:46	LB133619
	Beryllium	502	510	98	90 - 110	P	11/25/2024	12:46	LB133619
	Cadmium	512	510	100	90 - 110	P	11/25/2024	12:46	LB133619
	Calcium	9870	10000	99	90 - 110	P	11/25/2024	12:46	LB133619
	Chromium	514	520	99	90 - 110	P	11/25/2024	12:46	LB133619
	Cobalt	512	520	98	90 - 110	P	11/25/2024	12:46	LB133619
	Copper	529	510	104	90 - 110	P	11/25/2024	12:46	LB133619
	Iron	9710	10000	97	90 - 110	P	11/25/2024	12:46	LB133619
	Lead	1010	1000	101	90 - 110	P	11/25/2024	12:46	LB133619
	Magnesium	5770	6000	96	90 - 110	P	11/25/2024	12:46	LB133619
	Manganese	510	520	98	90 - 110	P	11/25/2024	12:46	LB133619
	Nickel	515	530	97	90 - 110	P	11/25/2024	12:46	LB133619
	Potassium	9580	9900	97	90 - 110	P	11/25/2024	12:46	LB133619
	Selenium	1040	1000	104	90 - 110	P	11/25/2024	12:46	LB133619
	Silver	249	250	100	90 - 110	P	11/25/2024	12:46	LB133619
	Sodium	9690	10000	97	90 - 110	P	11/25/2024	12:46	LB133619
	Thallium	1030	1000	103	90 - 110	P	11/25/2024	12:46	LB133619
	Vanadium	490	500	98	90 - 110	P	11/25/2024	12:46	LB133619
	Zinc	1020	1000	102	90 - 110	P	11/25/2024	12:46	LB133619

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	11/25/2024	13:10	LB133619
	Antimony	51.0	50.0	102	80 - 120	P	11/25/2024	13:10	LB133619
	Arsenic	19.8	20.0	99	80 - 120	P	11/25/2024	13:10	LB133619
	Barium	101	100	101	80 - 120	P	11/25/2024	13:10	LB133619
	Beryllium	5.77	6.0	96	80 - 120	P	11/25/2024	13:10	LB133619
	Cadmium	6.09	6.0	102	80 - 120	P	11/25/2024	13:10	LB133619
	Calcium	1990	2000	99	80 - 120	P	11/25/2024	13:10	LB133619
	Chromium	10.5	10.0	105	80 - 120	P	11/25/2024	13:10	LB133619
	Cobalt	29.4	30.0	98	80 - 120	P	11/25/2024	13:10	LB133619
	Copper	23.2	20.0	116	80 - 120	P	11/25/2024	13:10	LB133619
	Iron	99.0	100	99	80 - 120	P	11/25/2024	13:10	LB133619
	Lead	11.7	12.0	98	80 - 120	P	11/25/2024	13:10	LB133619
	Magnesium	1990	2000	100	80 - 120	P	11/25/2024	13:10	LB133619
	Manganese	20.0	20.0	100	80 - 120	P	11/25/2024	13:10	LB133619
	Nickel	40.0	40.0	100	80 - 120	P	11/25/2024	13:10	LB133619
	Potassium	1950	2000	97	80 - 120	P	11/25/2024	13:10	LB133619
	Selenium	21.9	20.0	109	80 - 120	P	11/25/2024	13:10	LB133619
	Silver	10.6	10.0	106	80 - 120	P	11/25/2024	13:10	LB133619
	Sodium	2020	2000	101	80 - 120	P	11/25/2024	13:10	LB133619
	Thallium	41.1	40.0	103	80 - 120	P	11/25/2024	13:10	LB133619
	Vanadium	40.3	40.0	101	80 - 120	P	11/25/2024	13:10	LB133619
	Zinc	43.1	40.0	108	80 - 120	P	11/25/2024	13:10	LB133619

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	9810	10000	98	90 - 110	P	11/25/2024	13:48	LB133619
	Antimony	4980	5000	100	90 - 110	P	11/25/2024	13:48	LB133619
	Arsenic	4940	5000	99	90 - 110	P	11/25/2024	13:48	LB133619
	Barium	9670	10000	97	90 - 110	P	11/25/2024	13:48	LB133619
	Beryllium	240	250	96	90 - 110	P	11/25/2024	13:48	LB133619
	Cadmium	2420	2500	97	90 - 110	P	11/25/2024	13:48	LB133619
	Calcium	24000	25000	96	90 - 110	P	11/25/2024	13:48	LB133619
	Chromium	999	1000	100	90 - 110	P	11/25/2024	13:48	LB133619
	Cobalt	2420	2500	97	90 - 110	P	11/25/2024	13:48	LB133619
	Copper	1240	1250	99	90 - 110	P	11/25/2024	13:48	LB133619
	Iron	4880	5000	98	90 - 110	P	11/25/2024	13:48	LB133619
	Lead	4850	5000	97	90 - 110	P	11/25/2024	13:48	LB133619
	Magnesium	24000	25000	96	90 - 110	P	11/25/2024	13:48	LB133619
	Manganese	2370	2500	95	90 - 110	P	11/25/2024	13:48	LB133619
	Nickel	2420	2500	97	90 - 110	P	11/25/2024	13:48	LB133619
	Potassium	24900	25000	99	90 - 110	P	11/25/2024	13:48	LB133619
	Selenium	4970	5000	99	90 - 110	P	11/25/2024	13:48	LB133619
	Silver	1230	1250	98	90 - 110	P	11/25/2024	13:48	LB133619
	Sodium	25400	25000	102	90 - 110	P	11/25/2024	13:48	LB133619
	Thallium	5210	5000	104	90 - 110	P	11/25/2024	13:48	LB133619
	Vanadium	2430	2500	97	90 - 110	P	11/25/2024	13:48	LB133619
	Zinc	2520	2500	101	90 - 110	P	11/25/2024	13:48	LB133619
CCV02	Aluminum	10100	10000	101	90 - 110	P	11/25/2024	14:27	LB133619
	Antimony	4900	5000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Arsenic	4860	5000	97	90 - 110	P	11/25/2024	14:27	LB133619
	Barium	9910	10000	99	90 - 110	P	11/25/2024	14:27	LB133619
	Beryllium	247	250	99	90 - 110	P	11/25/2024	14:27	LB133619
	Cadmium	2390	2500	96	90 - 110	P	11/25/2024	14:27	LB133619
	Calcium	24400	25000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Chromium	983	1000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Cobalt	2390	2500	96	90 - 110	P	11/25/2024	14:27	LB133619
	Copper	1230	1250	98	90 - 110	P	11/25/2024	14:27	LB133619
	Iron	4810	5000	96	90 - 110	P	11/25/2024	14:27	LB133619
	Lead	4810	5000	96	90 - 110	P	11/25/2024	14:27	LB133619

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	24600	25000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Manganese	2400	2500	96	90 - 110	P	11/25/2024	14:27	LB133619
	Nickel	2390	2500	96	90 - 110	P	11/25/2024	14:27	LB133619
	Potassium	24800	25000	99	90 - 110	P	11/25/2024	14:27	LB133619
	Selenium	4910	5000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Silver	1220	1250	98	90 - 110	P	11/25/2024	14:27	LB133619
	Sodium	25400	25000	102	90 - 110	P	11/25/2024	14:27	LB133619
	Thallium	4920	5000	98	90 - 110	P	11/25/2024	14:27	LB133619
	Vanadium	2480	2500	99	90 - 110	P	11/25/2024	14:27	LB133619
	Zinc	2490	2500	100	90 - 110	P	11/25/2024	14:27	LB133619
CCV03	Aluminum	10400	10000	104	90 - 110	P	11/25/2024	15:17	LB133619
	Antimony	5370	5000	107	90 - 110	P	11/25/2024	15:17	LB133619
	Arsenic	5310	5000	106	90 - 110	P	11/25/2024	15:17	LB133619
	Barium	9990	10000	100	90 - 110	P	11/25/2024	15:17	LB133619
	Beryllium	256	250	102	90 - 110	P	11/25/2024	15:17	LB133619
	Cadmium	2610	2500	104	90 - 110	P	11/25/2024	15:17	LB133619
	Calcium	25100	25000	100	90 - 110	P	11/25/2024	15:17	LB133619
	Chromium	1070	1000	107	90 - 110	P	11/25/2024	15:17	LB133619
	Cobalt	2600	2500	104	90 - 110	P	11/25/2024	15:17	LB133619
	Copper	1340	1250	107	90 - 110	P	11/25/2024	15:17	LB133619
	Iron	5140	5000	103	90 - 110	P	11/25/2024	15:17	LB133619
	Lead	5230	5000	105	90 - 110	P	11/25/2024	15:17	LB133619
	Magnesium	25300	25000	101	90 - 110	P	11/25/2024	15:17	LB133619
	Manganese	2470	2500	99	90 - 110	P	11/25/2024	15:17	LB133619
	Nickel	2610	2500	104	90 - 110	P	11/25/2024	15:17	LB133619
	Potassium	26500	25000	106	90 - 110	P	11/25/2024	15:17	LB133619
	Selenium	5360	5000	107	90 - 110	P	11/25/2024	15:17	LB133619
	Silver	1310	1250	105	90 - 110	P	11/25/2024	15:17	LB133619
	Sodium	27100	25000	108	90 - 110	P	11/25/2024	15:17	LB133619
	Thallium	5210	5000	104	90 - 110	P	11/25/2024	15:17	LB133619
	Vanadium	2560	2500	103	90 - 110	P	11/25/2024	15:17	LB133619
	Zinc	2680	2500	107	90 - 110	P	11/25/2024	15:17	LB133619
CCV04	Aluminum	10200	10000	102	90 - 110	P	11/25/2024	16:13	LB133619
	Antimony	5220	5000	104	90 - 110	P	11/25/2024	16:13	LB133619

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5190	5000	104	90 - 110	P	11/25/2024	16:13	LB133619
	Barium	10100	10000	101	90 - 110	P	11/25/2024	16:13	LB133619
	Beryllium	259	250	104	90 - 110	P	11/25/2024	16:13	LB133619
	Cadmium	2550	2500	102	90 - 110	P	11/25/2024	16:13	LB133619
	Calcium	25000	25000	100	90 - 110	P	11/25/2024	16:13	LB133619
	Chromium	1050	1000	105	90 - 110	P	11/25/2024	16:13	LB133619
	Cobalt	2540	2500	102	90 - 110	P	11/25/2024	16:13	LB133619
	Copper	1300	1250	104	90 - 110	P	11/25/2024	16:13	LB133619
	Iron	5050	5000	101	90 - 110	P	11/25/2024	16:13	LB133619
	Lead	5130	5000	102	90 - 110	P	11/25/2024	16:13	LB133619
	Magnesium	25200	25000	101	90 - 110	P	11/25/2024	16:13	LB133619
	Manganese	2470	2500	99	90 - 110	P	11/25/2024	16:13	LB133619
	Nickel	2550	2500	102	90 - 110	P	11/25/2024	16:13	LB133619
	Potassium	26000	25000	104	90 - 110	P	11/25/2024	16:13	LB133619
	Selenium	5270	5000	105	90 - 110	P	11/25/2024	16:13	LB133619
	Silver	1300	1250	104	90 - 110	P	11/25/2024	16:13	LB133619
	Sodium	26400	25000	106	90 - 110	P	11/25/2024	16:13	LB133619
	Thallium	5390	5000	108	90 - 110	P	11/25/2024	16:13	LB133619
	Vanadium	2540	2500	102	90 - 110	P	11/25/2024	16:13	LB133619
	Zinc	2640	2500	106	90 - 110	P	11/25/2024	16:13	LB133619
CCV05	Aluminum	9950	10000	100	90 - 110	P	11/25/2024	17:13	LB133619
	Antimony	5100	5000	102	90 - 110	P	11/25/2024	17:13	LB133619
	Arsenic	5100	5000	102	90 - 110	P	11/25/2024	17:13	LB133619
	Barium	9700	10000	97	90 - 110	P	11/25/2024	17:13	LB133619
	Beryllium	259	250	104	90 - 110	P	11/25/2024	17:13	LB133619
	Cadmium	2570	2500	103	90 - 110	P	11/25/2024	17:13	LB133619
	Calcium	24800	25000	99	90 - 110	P	11/25/2024	17:13	LB133619
	Chromium	1050	1000	105	90 - 110	P	11/25/2024	17:13	LB133619
	Cobalt	2540	2500	102	90 - 110	P	11/25/2024	17:13	LB133619
	Copper	1280	1250	102	90 - 110	P	11/25/2024	17:13	LB133619
	Iron	5020	5000	100	90 - 110	P	11/25/2024	17:13	LB133619
	Lead	5130	5000	102	90 - 110	P	11/25/2024	17:13	LB133619
	Magnesium	25100	25000	100	90 - 110	P	11/25/2024	17:13	LB133619
	Manganese	2450	2500	98	90 - 110	P	11/25/2024	17:13	LB133619

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	2550	2500	102	90 - 110	P	11/25/2024	17:13	LB133619
	Potassium	24500	25000	98	90 - 110	P	11/25/2024	17:13	LB133619
	Selenium	5150	5000	103	90 - 110	P	11/25/2024	17:13	LB133619
	Silver	1280	1250	103	90 - 110	P	11/25/2024	17:13	LB133619
	Sodium	24100	25000	97	90 - 110	P	11/25/2024	17:13	LB133619
	Thallium	5430	5000	109	90 - 110	P	11/25/2024	17:13	LB133619
	Vanadium	2510	2500	100	90 - 110	P	11/25/2024	17:13	LB133619
	Zinc	2610	2500	105	90 - 110	P	11/25/2024	17:13	LB133619
CCV06	Aluminum	10100	10000	101	90 - 110	P	11/25/2024	17:53	LB133619
	Antimony	5290	5000	106	90 - 110	P	11/25/2024	17:53	LB133619
	Arsenic	5240	5000	105	90 - 110	P	11/25/2024	17:53	LB133619
	Barium	9850	10000	98	90 - 110	P	11/25/2024	17:53	LB133619
	Beryllium	242	250	97	90 - 110	P	11/25/2024	17:53	LB133619
	Cadmium	2500	2500	100	90 - 110	P	11/25/2024	17:53	LB133619
	Calcium	23900	25000	95	90 - 110	P	11/25/2024	17:53	LB133619
	Chromium	1010	1000	101	90 - 110	P	11/25/2024	17:53	LB133619
	Cobalt	2490	2500	100	90 - 110	P	11/25/2024	17:53	LB133619
	Copper	1310	1250	105	90 - 110	P	11/25/2024	17:53	LB133619
	Iron	4870	5000	98	90 - 110	P	11/25/2024	17:53	LB133619
	Lead	5030	5000	100	90 - 110	P	11/25/2024	17:53	LB133619
	Magnesium	24400	25000	97	90 - 110	P	11/25/2024	17:53	LB133619
	Manganese	2350	2500	94	90 - 110	P	11/25/2024	17:53	LB133619
	Nickel	2500	2500	100	90 - 110	P	11/25/2024	17:53	LB133619
	Potassium	25100	25000	101	90 - 110	P	11/25/2024	17:53	LB133619
	Selenium	5330	5000	106	90 - 110	P	11/25/2024	17:53	LB133619
	Silver	1250	1250	100	90 - 110	P	11/25/2024	17:53	LB133619
	Sodium	25500	25000	102	90 - 110	P	11/25/2024	17:53	LB133619
	Thallium	5270	5000	106	90 - 110	P	11/25/2024	17:53	LB133619
	Vanadium	2480	2500	99	90 - 110	P	11/25/2024	17:53	LB133619
	Zinc	2550	2500	102	90 - 110	P	11/25/2024	17:53	LB133619

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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	107	100	107	40 - 160	P	11/19/2024	11:43	LB133524
	Antimony	49.1	50.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Arsenic	19.4	20.0	97	40 - 160	P	11/19/2024	11:43	LB133524
	Barium	105	100	105	40 - 160	P	11/19/2024	11:43	LB133524
	Beryllium	5.90	6.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Cadmium	5.78	6.0	96	40 - 160	P	11/19/2024	11:43	LB133524
	Calcium	2070	2000	104	40 - 160	P	11/19/2024	11:43	LB133524
	Chromium	10.2	10.0	102	40 - 160	P	11/19/2024	11:43	LB133524
	Cobalt	29.6	30.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Copper	22.2	20.0	111	40 - 160	P	11/19/2024	11:43	LB133524
	Iron	96.0	100	96	40 - 160	P	11/19/2024	11:43	LB133524
	Lead	12.1	12.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Magnesium	2050	2000	102	40 - 160	P	11/19/2024	11:43	LB133524
	Manganese	21.1	20.0	106	40 - 160	P	11/19/2024	11:43	LB133524
	Nickel	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Potassium	1920	2000	96	40 - 160	P	11/19/2024	11:43	LB133524
	Selenium	18.1	20.0	90	40 - 160	P	11/19/2024	11:43	LB133524
	Silver	10.1	10.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Sodium	1810	2000	90	40 - 160	P	11/19/2024	11:43	LB133524
	Thallium	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Vanadium	39.6	40.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Zinc	42.4	40.0	106	40 - 160	P	11/19/2024	11:43	LB133524
CRA	Mercury	0.21	0.2	105	40 - 160	CV	11/19/2024	15:42	LB133516
CRA	Mercury	0.20	0.2	98	40 - 160	CV	11/22/2024	09:02	LB133570
CRI01	Aluminum	94.1	100	94	40 - 160	P	11/25/2024	13:25	LB133619
	Antimony	47.4	50.0	95	40 - 160	P	11/25/2024	13:25	LB133619
	Arsenic	20.7	20.0	104	40 - 160	P	11/25/2024	13:25	LB133619
	Barium	98.4	100	98	40 - 160	P	11/25/2024	13:25	LB133619
	Beryllium	5.64	6.0	94	40 - 160	P	11/25/2024	13:25	LB133619
	Cadmium	7.00	6.0	117	40 - 160	P	11/25/2024	13:25	LB133619
	Calcium	1900	2000	95	40 - 160	P	11/25/2024	13:25	LB133619
	Chromium	9.72	10.0	97	40 - 160	P	11/25/2024	13:25	LB133619
	Cobalt	27.7	30.0	92	40 - 160	P	11/25/2024	13:25	LB133619
	Copper	21.4	20.0	107	40 - 160	P	11/25/2024	13:25	LB133619
	Iron	93.6	100	94	40 - 160	P	11/25/2024	13:25	LB133619

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Fax : 908 789 8922

Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	11.2	12.0	93	40 - 160	P	11/25/2024	13:25	LB133619
	Magnesium	1900	2000	95	40 - 160	P	11/25/2024	13:25	LB133619
	Manganese	19.3	20.0	96	40 - 160	P	11/25/2024	13:25	LB133619
	Nickel	36.9	40.0	92	40 - 160	P	11/25/2024	13:25	LB133619
	Potassium	1800	2000	90	40 - 160	P	11/25/2024	13:25	LB133619
	Selenium	20.3	20.0	102	40 - 160	P	11/25/2024	13:25	LB133619
	Silver	9.74	10.0	97	40 - 160	P	11/25/2024	13:25	LB133619
	Sodium	1860	2000	93	40 - 160	P	11/25/2024	13:25	LB133619
	Thallium	41.3	40.0	103	40 - 160	P	11/25/2024	13:25	LB133619
	Vanadium	37.4	40.0	94	40 - 160	P	11/25/2024	13:25	LB133619
	Zinc	31.3	40.0	78	40 - 160	P	11/25/2024	13:25	LB133619

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Fax : 908 789 8922

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	263000	255000	103	216000	294000	11/19/2024	11:47	LB133524
	Antimony	-1.78			-50	50	11/19/2024	11:47	LB133524
	Arsenic	3.30			-20	20	11/19/2024	11:47	LB133524
	Barium	5.39	6.0	90	-94	106	11/19/2024	11:47	LB133524
	Beryllium	1.27			-6	6	11/19/2024	11:47	LB133524
	Cadmium	3.48	1.0	348	-5	7	11/19/2024	11:47	LB133524
	Calcium	251000	245000	102	208000	282000	11/19/2024	11:47	LB133524
	Chromium	57.2	52.0	110	42	62	11/19/2024	11:47	LB133524
	Cobalt	2.14			-30	30	11/19/2024	11:47	LB133524
	Copper	7.48	2.0	374	-18	22	11/19/2024	11:47	LB133524
	Iron	98200	101000	97	85600	116500	11/19/2024	11:47	LB133524
	Lead	8.06			-12	12	11/19/2024	11:47	LB133524
	Magnesium	274000	255000	108	216000	294000	11/19/2024	11:47	LB133524
	Manganese	4.02	7.0	57	-13	27	11/19/2024	11:47	LB133524
	Nickel	2.06	2.0	103	-38	42	11/19/2024	11:47	LB133524
	Potassium	43.8			0	0	11/19/2024	11:47	LB133524
	Selenium	-17.4			-20	20	11/19/2024	11:47	LB133524
	Silver	-0.45			-10	10	11/19/2024	11:47	LB133524
	Sodium	49.8			0	0	11/19/2024	11:47	LB133524
	Thallium	-3.78			-40	40	11/19/2024	11:47	LB133524
	Vanadium	7.04			-40	40	11/19/2024	11:47	LB133524
	Zinc	5.70			-40	40	11/19/2024	11:47	LB133524
ICSAB01	Aluminum	265000	247000	107	209000	285000	11/19/2024	11:51	LB133524
	Antimony	626	618	101	525	711	11/19/2024	11:51	LB133524
	Arsenic	116	104	112	88.4	120	11/19/2024	11:51	LB133524
	Barium	525	537	98	437	637	11/19/2024	11:51	LB133524
	Beryllium	524	495	106	420	570	11/19/2024	11:51	LB133524
	Cadmium	832	972	86	826	1120	11/19/2024	11:51	LB133524
	Calcium	250000	235000	106	199000	271000	11/19/2024	11:51	LB133524
	Chromium	571	542	105	460	624	11/19/2024	11:51	LB133524
	Cobalt	518	476	109	404	548	11/19/2024	11:51	LB133524
	Copper	493	511	96	434	588	11/19/2024	11:51	LB133524
	Iron	99700	99300	100	84400	114500	11/19/2024	11:51	LB133524
	Lead	57.8	49.0	118	37	61	11/19/2024	11:51	LB133524
	Magnesium	273000	248000	110	210000	286000	11/19/2024	11:51	LB133524
	Manganese	509	507	100	430	584	11/19/2024	11:51	LB133524
	Nickel	1020	954	107	810	1100	11/19/2024	11:51	LB133524
	Potassium	62.1			0	0	11/19/2024	11:51	LB133524
	Selenium	31.5	46.0	68	26	66	11/19/2024	11:51	LB133524
	Silver	201	201	100	170	232	11/19/2024	11:51	LB133524
	Sodium	62.8			0	0	11/19/2024	11:51	LB133524
	Thallium	91.5	108	85	68	148	11/19/2024	11:51	LB133524

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Fax : 908 789 8922

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	509	491	104	417	565	11/19/2024	11:51	LB133524
	Zinc	1090	952	114	809	1095	11/19/2024	11:51	LB133524
ICSA01	Aluminum	262000	255000	103	216000	294000	11/25/2024	13:30	LB133619
	Antimony	-4.83			-50	50	11/25/2024	13:30	LB133619
	Arsenic	3.03			-20	20	11/25/2024	13:30	LB133619
	Barium	3.11	6.0	52	-94	106	11/25/2024	13:30	LB133619
	Beryllium	1.23			-6	6	11/25/2024	13:30	LB133619
	Cadmium	6.18	1.0	618	-5	7	11/25/2024	13:30	LB133619
	Calcium	242000	245000	99	208000	282000	11/25/2024	13:30	LB133619
	Chromium	55.7	52.0	107	42	62	11/25/2024	13:30	LB133619
	Cobalt	2.02			-30	30	11/25/2024	13:30	LB133619
	Copper	-9.77	2.0	488	-18	22	11/25/2024	13:30	LB133619
	Iron	97700	101000	97	85600	116500	11/25/2024	13:30	LB133619
	Lead	7.01			-12	12	11/25/2024	13:30	LB133619
	Magnesium	268000	255000	105	216000	294000	11/25/2024	13:30	LB133619
	Manganese	3.81	7.0	54	-13	27	11/25/2024	13:30	LB133619
	Nickel	1.51	2.0	76	-38	42	11/25/2024	13:30	LB133619
	Potassium	61.4			0	0	11/25/2024	13:30	LB133619
	Selenium	-14.9			-20	20	11/25/2024	13:30	LB133619
	Silver	-6.89			-10	10	11/25/2024	13:30	LB133619
	Sodium	83.0			0	0	11/25/2024	13:30	LB133619
	Thallium	13.2			-40	40	11/25/2024	13:30	LB133619
	Vanadium	6.79			-40	40	11/25/2024	13:30	LB133619
	Zinc	1.99			-40	40	11/25/2024	13:30	LB133619
ICSAB01	Aluminum	267000	247000	108	209000	285000	11/25/2024	13:34	LB133619
	Antimony	652	618	106	525	711	11/25/2024	13:34	LB133619
	Arsenic	120	104	115	88.4	120	11/25/2024	13:34	LB133619
	Barium	514	537	96	437	637	11/25/2024	13:34	LB133619
	Beryllium	507	495	102	420	570	11/25/2024	13:34	LB133619
	Cadmium	1040	972	107	826	1120	11/25/2024	13:34	LB133619
	Calcium	241000	235000	103	199000	271000	11/25/2024	13:34	LB133619
	Chromium	577	542	106	460	624	11/25/2024	13:34	LB133619
	Cobalt	518	476	109	404	548	11/25/2024	13:34	LB133619
	Copper	497	511	97	434	588	11/25/2024	13:34	LB133619
	Iron	99700	99300	100	84400	114500	11/25/2024	13:34	LB133619
	Lead	57.0	49.0	116	37	61	11/25/2024	13:34	LB133619
	Magnesium	268000	248000	108	210000	286000	11/25/2024	13:34	LB133619
	Manganese	487	507	96	430	584	11/25/2024	13:34	LB133619
	Nickel	1020	954	107	810	1100	11/25/2024	13:34	LB133619
	Potassium	99.8			0	0	11/25/2024	13:34	LB133619
	Selenium	37.0	46.0	80	26	66	11/25/2024	13:34	LB133619
	Silver	199	201	99	170	232	11/25/2024	13:34	LB133619

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	95.9			0	0	11/25/2024	13:34	LB133619
	Thallium	113	108	105	68	148	11/25/2024	13:34	LB133619
	Vanadium	505	491	103	417	565	11/25/2024	13:34	LB133619
	Zinc	905	952	95	809	1095	11/25/2024	13:34	LB133619

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Solid **sample id:** P4889-01 **client id:** VNJ-228MS

Percent Solids for Sample: 91.1 **Spiked ID:** P4889-01MS **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.35		0.040		0.28	110		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Solid **sample id:** P4889-01 **client id:** VNJ-228MSD

Percent Solids for Sample: 91.1 **Spiked ID:** P4889-01MSD **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.040		0.26	107		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4892-04 **client id:** WB-310-SWMS

Percent Solids for Sample: NA **Spiked ID:** P4892-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	2160		453		1000	171	N	P
Antimony	ug/L	75 - 125	686		25.0	U	400	172	N	P
Arsenic	ug/L	75 - 125	631		10.0	U	400	158	N	P
Barium	ug/L	75 - 125	140		30.4	J	100	110		P
Beryllium	ug/L	75 - 125	125		3.00	U	100	125		P
Cadmium	ug/L	75 - 125	89.7		3.00	U	100	90		P
Calcium	ug/L	75 - 125	220000		225000		500	-1023		P
Chromium	ug/L	75 - 125	168		3.06	J	200	82		P
Cobalt	ug/L	75 - 125	92.9		15.0	U	100	93		P
Copper	ug/L	75 - 125	126		10.0	U	150	84		P
Iron	ug/L	75 - 125	2240		530		1500	114		P
Lead	ug/L	75 - 125	437		6.00	U	500	87		P
Magnesium	ug/L	75 - 125	693000		704000		1000	-1143		P
Manganese	ug/L	75 - 125	138		53.9		100	84		P
Mercury	ug/L	75 - 125	4.35		0.20	U	4.0	109		CV
Nickel	ug/L	75 - 125	222		2.30	J	250	88		P
Potassium	ug/L	75 - 125	593000		565000		5000	565		P
Selenium	ug/L	75 - 125	1610		10.0	U	1000	161	N	P
Silver	ug/L	75 - 125	84.4		5.00	U	37.5	225	N	P
Sodium	ug/L	75 - 125	5810000	D	6450000	D	1500	-42643		P
Thallium	ug/L	75 - 125	888		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	146		3.83	J	150	95		P
Zinc	ug/L	75 - 125	208		20.5		100	187	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4892-04 **client id:** WB-310-SWMSD

Percent Solids for Sample: NA **Spiked ID:** P4892-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	2060		453		1000	160	N	P
Antimony	ug/L	75 - 125	647		25.0	U	400	162	N	P
Arsenic	ug/L	75 - 125	596		10.0	U	400	149	N	P
Barium	ug/L	75 - 125	135		30.4	J	100	105		P
Beryllium	ug/L	75 - 125	122		3.00	U	100	122		P
Cadmium	ug/L	75 - 125	85.7		3.00	U	100	86		P
Calcium	ug/L	75 - 125	217000		225000		500	-1735		P
Chromium	ug/L	75 - 125	162		3.06	J	200	79		P
Cobalt	ug/L	75 - 125	88.5		15.0	U	100	88		P
Copper	ug/L	75 - 125	120		10.0	U	150	80		P
Iron	ug/L	75 - 125	2170		530		1500	109		P
Lead	ug/L	75 - 125	419		6.00	U	500	84		P
Magnesium	ug/L	75 - 125	683000		704000		1000	-2150		P
Manganese	ug/L	75 - 125	135		53.9		100	81		P
Mercury	ug/L	75 - 125	4.12		0.20	U	4.0	103		CV
Nickel	ug/L	75 - 125	213		2.30	J	250	84		P
Potassium	ug/L	75 - 125	546000		565000		5000	-369		P
Selenium	ug/L	75 - 125	1530		10.0	U	1000	153	N	P
Silver	ug/L	75 - 125	79.9		5.00	U	37.5	213	N	P
Sodium	ug/L	75 - 125	5920000	D	6450000	D	1500	-35055		P
Thallium	ug/L	75 - 125	845		20.0	U	1000	84		P
Vanadium	ug/L	75 - 125	144		3.83	J	150	93		P
Zinc	ug/L	75 - 125	195		20.5		100	174	N	P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Solid **sample id:** P4909-01 **client id:** BU-02-111824MS

Percent Solids for Sample: 94.7 **Spiked ID:** P4909-01MS **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1890		1650		98.2	246		P
Antimony	mg/Kg	75 - 125	39.9		2.30	U	39.3	102		P
Arsenic	mg/Kg	75 - 125	45.8		5.26		39.3	103		P
Barium	mg/Kg	75 - 125	23.0		11.5		9.8	117		P
Beryllium	mg/Kg	75 - 125	10.2		0.15	J	9.8	103		P
Cadmium	mg/Kg	75 - 125	10.5		0.25	J	9.8	104		P
Calcium	mg/Kg	75 - 125	1960		1790		49.1	346		P
Chromium	mg/Kg	75 - 125	29.4		8.71		19.6	106		P
Cobalt	mg/Kg	75 - 125	11.3		0.84	J	9.8	107		P
Copper	mg/Kg	75 - 125	25.2		9.29		14.7	108		P
Iron	mg/Kg	75 - 125	4880		4620		150	173		P
Lead	mg/Kg	75 - 125	61.2		11.3		49.1	102		P
Magnesium	mg/Kg	75 - 125	606		464		98.2	144		P
Manganese	mg/Kg	75 - 125	44.1		31.3		9.8	130	N	P
Nickel	mg/Kg	75 - 125	27.8		1.85		24.6	106		P
Potassium	mg/Kg	75 - 125	807		313		490	101		P
Selenium	mg/Kg	75 - 125	97.7		0.92	U	98.2	100		P
Silver	mg/Kg	75 - 125	3.75		0.46	U	3.7	101		P
Sodium	mg/Kg	75 - 125	177		38.8	J	150	92		P
Thallium	mg/Kg	75 - 125	94.3		1.84	U	98.2	96		P
Vanadium	mg/Kg	75 - 125	23.7		7.49		14.7	110		P
Zinc	mg/Kg	75 - 125	33.2		26.4		9.8	69	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Solid **sample id:** P4909-01 **client id:** BU-02-111824MSD

Percent Solids for Sample: 94.7 **Spiked ID:** P4909-01MSD **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1810		1650		92.6	172		P
Antimony	mg/Kg	75 - 125	37.9		2.30	U	37.1	102		P
Arsenic	mg/Kg	75 - 125	43.6		5.26		37.1	103		P
Barium	mg/Kg	75 - 125	21.6		11.5		9.3	109		P
Beryllium	mg/Kg	75 - 125	9.54		0.15	J	9.3	101		P
Cadmium	mg/Kg	75 - 125	9.85		0.25	J	9.3	103		P
Calcium	mg/Kg	75 - 125	1840		1790		46.3	106		P
Chromium	mg/Kg	75 - 125	28.2		8.71		18.5	105		P
Cobalt	mg/Kg	75 - 125	10.7		0.84	J	9.3	106		P
Copper	mg/Kg	75 - 125	23.8		9.29		13.9	104		P
Iron	mg/Kg	75 - 125	4730		4620		140	73		P
Lead	mg/Kg	75 - 125	57.7		11.3		46.3	100		P
Magnesium	mg/Kg	75 - 125	569		464		92.6	113		P
Manganese	mg/Kg	75 - 125	41.3		31.3		9.3	107		P
Nickel	mg/Kg	75 - 125	26.2		1.85		23.2	105		P
Potassium	mg/Kg	75 - 125	787		313		460	103		P
Selenium	mg/Kg	75 - 125	93.2		0.92	U	92.6	101		P
Silver	mg/Kg	75 - 125	3.59		0.46	U	3.5	103		P
Sodium	mg/Kg	75 - 125	172		38.8	J	140	95		P
Thallium	mg/Kg	75 - 125	90.7		1.84	U	92.6	98		P
Vanadium	mg/Kg	75 - 125	22.2		7.49		13.9	106		P
Zinc	mg/Kg	75 - 125	31.7		26.4		9.3	57	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Level:** LOW **Client ID:** WB-310-SWA

Sample ID: P4892-04 **Spiked ID:** P4892-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1970		453		10000	15		P
Antimony	ug/L	75 - 125	626		25.0	U	400	156		P
Arsenic	ug/L	75 - 125	584		10.0	U	400	146		P
Selenium	ug/L	75 - 125	1480		10.0	U	1000	148		P
Silver	ug/L	75 - 125	74.9		5.00	U	37.5	200		P
Zinc	ug/L	75 - 125	182		20.5		100	162		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Solid **Level:** LOW **Client ID:** BU-02-111824A

Sample ID: P4909-01 **Spiked ID:** P4909-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Manganese	mg/Kg	75 - 125	40.8		31.3		9.20	103		P
Zinc	mg/Kg	75 - 125	31.7		26.4		9.20	58		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Solid **Sample ID:** P4889-01 **Client ID:** VNJ-228DUP

Percent Solids for Sample: 91.1 **Duplicate ID** P4889-01DUP **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.040		0.041		2		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Solid **Sample ID:** P4889-01MS **Client ID:** VNJ-228MSD

Percent Solids for Sample: 91.1 **Duplicate ID** P4889-01MSD **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.35		0.32		9		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4892-04 **Client ID:** WB-310-SWDUP

Percent Solids for Sample: NA **Duplicate ID** P4892-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	453		446		2		P
Antimony	ug/L	20	25.0	U	2.79	J	200.0		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	30.4	J	30.3	J	0		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	225000		222000		1		P
Chromium	ug/L	20	3.06	J	1.61	J	62		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	530		519		2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	704000		694000		1		P
Manganese	ug/L	20	53.9		52.4		3		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Nickel	ug/L	20	2.30	J	1.62	J	35		P
Potassium	ug/L	20	565000		556000		2		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	6450000	D	6240000	D	3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	3.83	J	3.77	J	2		P
Zinc	ug/L	20	20.5		20.3		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4892-04MS **Client ID:** WB-310-SWMSD

Percent Solids for Sample: NA **Duplicate ID** P4892-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2160		2060		5		P
Antimony	ug/L	20	686		647		6		P
Arsenic	ug/L	20	631		596		6		P
Barium	ug/L	20	140		135		4		P
Beryllium	ug/L	20	125		122		2		P
Cadmium	ug/L	20	89.7		85.7		5		P
Calcium	ug/L	20	220000		217000		1		P
Chromium	ug/L	20	168		162		4		P
Cobalt	ug/L	20	92.9		88.5		5		P
Copper	ug/L	20	126		120		5		P
Iron	ug/L	20	2240		2170		3		P
Lead	ug/L	20	437		419		4		P
Magnesium	ug/L	20	693000		683000		1		P
Manganese	ug/L	20	138		135		2		P
Mercury	ug/L	20	4.35		4.12		5		CV
Nickel	ug/L	20	222		213		4		P
Potassium	ug/L	20	593000		546000		8		P
Selenium	ug/L	20	1610		1530		5		P
Silver	ug/L	20	84.4		79.9		5		P
Sodium	ug/L	20	5810000	D	5920000	D	2		P
Thallium	ug/L	20	888		845		5		P
Vanadium	ug/L	20	146		144		1		P
Zinc	ug/L	20	208		195		6		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Solid **Sample ID:** P4909-01 **Client ID:** BU-02-111824DUP

Percent Solids for Sample: 94.7 **Duplicate ID** P4909-01DUP **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1650		1780		8		P
Antimony	mg/Kg	20	2.30	U	0.18	J	200.0		P
Arsenic	mg/Kg	20	5.26		5.80		10		P
Barium	mg/Kg	20	11.5		12.6		9		P
Beryllium	mg/Kg	20	0.15	J	0.17	J	13		P
Cadmium	mg/Kg	20	0.25	J	0.29	J	15		P
Calcium	mg/Kg	20	1790		1920		7		P
Chromium	mg/Kg	20	8.71		9.27		6		P
Cobalt	mg/Kg	20	0.84	J	0.92	J	9		P
Copper	mg/Kg	20	9.29		10.2		9		P
Iron	mg/Kg	20	4620		4900		6		P
Lead	mg/Kg	20	11.3		12.5		10		P
Magnesium	mg/Kg	20	464		506		9		P
Manganese	mg/Kg	20	31.3		34.0		8		P
Nickel	mg/Kg	20	1.85		1.94	J	5		P
Potassium	mg/Kg	20	313		327		4		P
Selenium	mg/Kg	20	0.92	U	1.00	U			P
Silver	mg/Kg	20	0.46	U	0.50	U			P
Sodium	mg/Kg	20	38.8	J	99.6	U	200.0		P
Thallium	mg/Kg	20	1.84	U	1.99	U			P
Vanadium	mg/Kg	20	7.49		8.12		8		P
Zinc	mg/Kg	20	26.4		23.8		10		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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Solid **Sample ID:** P4909-01MS **Client ID:** BU-02-111824MSD

Percent Solids for Sample: 94.7 **Duplicate ID** P4909-01MSD **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1890		1810		4		P
Antimony	mg/Kg	20	39.9		37.9		5		P
Arsenic	mg/Kg	20	45.8		43.6		5		P
Barium	mg/Kg	20	23.0		21.6		6		P
Beryllium	mg/Kg	20	10.2		9.54		7		P
Cadmium	mg/Kg	20	10.5		9.85		6		P
Calcium	mg/Kg	20	1960		1840		6		P
Chromium	mg/Kg	20	29.4		28.2		4		P
Cobalt	mg/Kg	20	11.3		10.7		6		P
Copper	mg/Kg	20	25.2		23.8		6		P
Iron	mg/Kg	20	4880		4730		3		P
Lead	mg/Kg	20	61.2		57.7		6		P
Magnesium	mg/Kg	20	606		569		6		P
Manganese	mg/Kg	20	44.1		41.3		7		P
Nickel	mg/Kg	20	27.8		26.2		6		P
Potassium	mg/Kg	20	807		787		3		P
Selenium	mg/Kg	20	97.7		93.2		5		P
Silver	mg/Kg	20	3.75		3.59		4		P
Sodium	mg/Kg	20	177		172		3		P
Thallium	mg/Kg	20	94.3		90.7		4		P
Vanadium	mg/Kg	20	23.7		22.2		7		P
Zinc	mg/Kg	20	33.2		31.7		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165067BS							
Aluminum	mg/Kg	86.6	86.6		100	80 - 120	P
Antimony	mg/Kg	34.6	33.7		97	80 - 120	P
Arsenic	mg/Kg	34.6	33.5		97	80 - 120	P
Barium	mg/Kg	8.7	8.68		100	80 - 120	P
Beryllium	mg/Kg	8.7	8.72		100	80 - 120	P
Cadmium	mg/Kg	8.7	8.36		96	80 - 120	P
Calcium	mg/Kg	43.3	43.7	J	101	80 - 120	P
Chromium	mg/Kg	17.3	17.5		101	80 - 120	P
Cobalt	mg/Kg	8.7	8.48		98	80 - 120	P
Copper	mg/Kg	13.0	13.4		103	80 - 120	P
Iron	mg/Kg	130	125		96	80 - 120	P
Lead	mg/Kg	43.3	41.9		97	80 - 120	P
Magnesium	mg/Kg	86.6	84.8	J	98	80 - 120	P
Manganese	mg/Kg	8.7	8.88		102	80 - 120	P
Nickel	mg/Kg	21.6	21.3		99	80 - 120	P
Potassium	mg/Kg	430	408		95	80 - 120	P
Selenium	mg/Kg	86.6	84.3		97	80 - 120	P
Silver	mg/Kg	3.2	3.16		99	80 - 120	P
Sodium	mg/Kg	130	117		90	80 - 120	P
Thallium	mg/Kg	86.6	86.9		100	80 - 120	P
Vanadium	mg/Kg	13.0	13.1		101	80 - 120	P
Zinc	mg/Kg	8.7	8.82		101	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165113BS							
Mercury	mg/Kg	0.27	0.28		103	80 - 120	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165181BS							
Aluminum	ug/L	1000	961		96	80 - 120	P
Antimony	ug/L	400	347		87	80 - 120	P
Arsenic	ug/L	400	370		92	80 - 120	P
Barium	ug/L	100	90.5		90	80 - 120	P
Beryllium	ug/L	100	94.1		94	80 - 120	P
Cadmium	ug/L	100	89.1		89	80 - 120	P
Calcium	ug/L	500	449	J	90	80 - 120	P
Chromium	ug/L	200	193		96	80 - 120	P
Cobalt	ug/L	100	91.7		92	80 - 120	P
Copper	ug/L	150	150		100	80 - 120	P
Iron	ug/L	1500	1400		93	80 - 120	P
Lead	ug/L	500	444		89	80 - 120	P
Magnesium	ug/L	1000	907	J	91	80 - 120	P
Manganese	ug/L	100	93.2		93	80 - 120	P
Nickel	ug/L	250	232		93	80 - 120	P
Potassium	ug/L	5000	4780		96	80 - 120	P
Selenium	ug/L	1000	911		91	80 - 120	P
Silver	ug/L	37.5	33.2		88	80 - 120	P
Sodium	ug/L	1500	1630		109	80 - 120	P
Thallium	ug/L	1000	863		86	80 - 120	P
Vanadium	ug/L	150	142		95	80 - 120	P
Zinc	ug/L	100	93.0		93	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165183BS							
Mercury	ug/L	4.0	4.41		110	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

VNJ-228L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133516 **Lab Sample ID :** P4889-01L **SDG No.:** P4892

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	0.040		0.072	U	100.0		CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-310-SWL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133619 **Lab Sample ID :** P4892-04L **SDG No.:** P4892

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	453		331		27		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	30.4	J	250	U	100.0		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	225000		245000		9		P
Chromium	3.06	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	530		505		5		P
Lead	6.00	U	30.0	U			P
Magnesium	704000		812000		15		P
Manganese	53.9		54.7		2		P
Mercury	0.20	U	1.00	U			CV
Nickel	2.30	J	100	U	100.0		P
Potassium	565000		350000		38		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	6450000	D	7180000	D	11		P
Thallium	20.0	U	100	U			P
Vanadium	3.83	J	100	U	100.0		P
Zinc	20.5		12.2	J	40		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

BU-02-111824L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133524 **Lab Sample ID :** P4909-01L **SDG No.:** P4892

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	1650		1720		4		P
Antimony	2.30	U	11.5	U			P
Arsenic	5.26		4.61		12		P
Barium	11.5		12.3	J	7		P
Beryllium	0.15	J	0.17	J	12		P
Cadmium	0.25	J	0.19	J	25		P
Calcium	1790		1900		6		P
Chromium	8.71		9.05		4		P
Cobalt	0.84	J	0.84	J	0		P
Copper	9.29		10.5		13		P
Iron	4620		4760		3		P
Lead	11.3		12.4		10		P
Magnesium	464		502		8		P
Manganese	31.3		33.9		8		P
Nickel	1.85		1.89	J	2		P
Potassium	313		306	J	2		P
Selenium	0.92	U	4.59	U			P
Silver	0.46	U	2.30	U			P
Sodium	38.8	J	459	U	100.0		P
Thallium	1.84	U	9.18	U			P
Vanadium	7.49		7.68	J	3		P
Zinc	26.4		22.9		13		P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133516

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1510	HG
S0.2	S0.2	1	1512	HG
S2.5	S2.5	1	1515	HG
S5	S5	1	1517	HG
S7.5	S7.5	1	1519	HG
S10	S10	1	1524	HG
ICV91	ICV91	1	1527	HG
ICB91	ICB91	1	1532	HG
CCV10	CCV10	1	1534	HG
CCB10	CCB10	1	1539	HG
CRA	CRA	1	1542	HG
PB165113BL	PB165113BL	1	1548	HG
PB165113BS	PB165113BS	1	1551	HG
P4889-01DUP	VNJ-228DUP	1	1602	HG
CCV11	CCV11	1	1605	HG
CCB11	CCB11	1	1607	HG
P4889-01MS	VNJ-228MS	1	1609	HG
P4889-01MSD	VNJ-228MSD	1	1615	HG
P4892-02	WB-310-BOT	1	1628	HG
CCV12	CCV12	1	1639	HG
CCB12	CCB12	1	1641	HG
P4889-01L	VNJ-228L	5	1650	HG
P4892-01	WB-310-TOP	10	1703	HG
CCV13	CCV13	1	1706	HG
CCB13	CCB13	1	1708	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133524

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1104	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1113	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1143	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1243	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165067BL	PB165067BL	1	1252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165067BS	PB165067BS	1	1256	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-01	WB-310-TOP	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-02	WB-310-BOT	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4909-01DUP	BU-02-111824DUP	1	1359	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4909-01L	BU-02-111824L	5	1403	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4909-01MS	BU-02-111824MS	1	1408	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4909-01MSD	BU-02-111824MSD	1	1412	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4909-01A	BU-02-111824A	1	1416	Mn,Zn
CCV03	CCV03	1	1424	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1428	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1531	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1536	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-01	WB-310-TOP	5	1553	Cr
CCV05	CCV05	1	1618	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1622	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1719	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133570

Start date: 11/22/2024 **End date:** 11/22/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0829	HG
S0.2	S0.2	1	0831	HG
S2.5	S2.5	1	0834	HG
S5	S5	1	0836	HG
S7.5	S7.5	1	0838	HG
S10	S10	1	0847	HG
ICV97	ICV97	1	0852	HG
ICB97	ICB97	1	0855	HG
CCV31	CCV31	1	0857	HG
CCB31	CCB31	1	0859	HG
CRA	CRA	1	0902	HG
CCV32	CCV32	1	0930	HG
CCB32	CCB32	1	0932	HG
CCV33	CCV33	1	0957	HG
CCB33	CCB33	1	0959	HG
PB165183BL	PB165183BL	1	1015	HG
PB165183BS	PB165183BS	1	1017	HG
P4892-04	WB-310-SW	1	1020	HG
P4892-04DUP	WB-310-SWDUP	1	1022	HG
CCV34	CCV34	1	1027	HG
CCB34	CCB34	1	1031	HG
P4892-04MS	WB-310-SWMS	1	1033	HG
P4892-04MSD	WB-310-SWMSD	1	1035	HG
CCV35	CCV35	1	1047	HG
CCB35	CCB35	1	1052	HG
P4892-04L	WB-310-SWL	5	1103	HG
CCV36	CCV36	1	1117	HG
CCB36	CCB36	1	1119	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133619

Start date: 11/25/2024 **End date:** 11/25/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1220	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	1224	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	1228	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	1233	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	1237	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	1241	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	1246	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	1310	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	1314	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	1325	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	1330	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	1334	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	1348	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	1353	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	1427	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	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	1517	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	1521	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04	WB-310-SW	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04DUP	WB-310-SWDUP	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04L	WB-310-SWL	5	1559	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04MS	WB-310-SWMS	1	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1613	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	1622	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04MSD	WB-310-SWMSD	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04A	WB-310-SWA	1	1631	Ag,Al,As,Sb,Se,Zn
P4892-04	WB-310-SW	10	1640	Na
P4892-04MS	WB-310-SWMS	10	1654	Na
P4892-04MSD	WB-310-SWMSD	10	1658	Na
CCV05	CCV05	1	1713	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	1718	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4892-04DUP	WB-310-SWDUP	10	1722	Na
P4892-04L	WB-310-SWL	50	1727	Na
PB165181BL	PB165181BL	1	1744	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165181BS	PB165181BS	1	1748	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	1753	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	1802	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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			Mercury	7471B		11/19/24	11/19/24	
			Metals ICP-TAL	6010D		11/18/24	11/19/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			Mercury	7471B		11/19/24	11/19/24	
			Metals ICP-TAL	6010D		11/18/24	11/19/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP ICP Metals	6010D		11/19/24	11/20/24	
			TCLP Mercury	7470A		11/19/24	11/19/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			Mercury	7470A		11/21/24	11/22/24	
			Metals ICP-TAL	6010D		11/22/24	11/25/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165067**						
P4892-01	WB-310-TOP	SAM	SOLID	11/18/2024	2.17	100.0	59.80
P4892-02	WB-310-BOT	SAM	SOLID	11/18/2024	2.34	100.0	86.10
P4909-01DUP	BU-02-111824DUP	DUP	SOLID	11/18/2024	2.12	100.0	94.70
P4909-01MS	BU-02-111824MS	MS	SOLID	11/18/2024	2.15	100.0	94.70
P4909-01MSD	BU-02-111824MSD	MSD	SOLID	11/18/2024	2.28	100.0	94.70
PB165067BL	PB165067BL	MB	SOLID	11/18/2024	2.31	100.0	100.00
PB165067BS	PB165067BS	LCS	SOLID	11/18/2024	2.31	100.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165113**						
P4889-01DUP	VNJ-228DUP	DUP	SOLID	11/19/2024	0.56	35.0	91.10
P4889-01MS	VNJ-228MS	MS	SOLID	11/19/2024	0.55	35.0	91.10
P4889-01MSD	VNJ-228MSD	MSD	SOLID	11/19/2024	0.59	35.0	91.10
P4892-01	WB-310-TOP	SAM	SOLID	11/19/2024	0.59	35.0	59.80
P4892-02	WB-310-BOT	SAM	SOLID	11/19/2024	0.60	35.0	86.10
PB165113BL	PB165113BL	MB	SOLID	11/19/2024	0.55	35.0	100.00
PB165113BS	PB165113BS	LCS	SOLID	11/19/2024	0.52	35.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165181**						
P4892-04	WB-310-SW	SAM	WATER	11/22/2024	50.0	25.0	
P4892-04DUP	WB-310-SWDUP	DUP	WATER	11/22/2024	50.0	25.0	
P4892-04MS	WB-310-SWMS	MS	WATER	11/22/2024	50.0	25.0	
P4892-04MSD	WB-310-SWMSD	MSD	WATER	11/22/2024	50.0	25.0	
PB165181BL	PB165181BL	MB	WATER	11/22/2024	50.0	25.0	
PB165181BS	PB165181BS	LCS	WATER	11/22/2024	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165183**						
P4892-04	WB-310-SW	SAM	WATER	11/21/2024	30.0	30.0	
P4892-04DUP	WB-310-SWDUP	DUP	WATER	11/21/2024	30.0	30.0	
P4892-04MS	WB-310-SWMS	MS	WATER	11/21/2024	30.0	30.0	
P4892-04MSD	WB-310-SWMSD	MSD	WATER	11/21/2024	30.0	30.0	
PB165183BL	PB165183BL	MB	WATER	11/21/2024	30.0	30.0	
PB165183BS	PB165183BS	LCS	WATER	11/21/2024	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133516

Review By	jaswal	Review On	11/19/2024 10:27:43 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 15:10		Mohan	OK
2	S0.2	S0.2	CAL2	11/19/24 15:12		Mohan	OK
3	S2.5	S2.5	CAL3	11/19/24 15:15		Mohan	OK
4	S5	S5	CAL4	11/19/24 15:17		Mohan	OK
5	S7.5	S7.5	CAL5	11/19/24 15:19		Mohan	OK
6	S10	S10	CAL6	11/19/24 15:24		Mohan	OK
7	ICV91	ICV91	ICV	11/19/24 15:27		Mohan	OK
8	ICB91	ICB91	ICB	11/19/24 15:32		Mohan	OK
9	CCV10	CCV10	CCV	11/19/24 15:34		Mohan	OK
10	CCB10	CCB10	CCB	11/19/24 15:39		Mohan	OK
11	CRA	CRA	CRDL	11/19/24 15:42		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/19/24 15:44		Mohan	OK
13	ChkStd	ChkStd	SAM	11/19/24 15:46		Mohan	OK
14	PB165113BL	PB165113BL	MB	11/19/24 15:48		Mohan	OK
15	PB165113BS	PB165113BS	LCS	11/19/24 15:51		Mohan	OK
16	P4869-01	EO-02-11152024	SAM	11/19/24 15:53		Mohan	OK
17	P4887-01	MH-739	SAM	11/19/24 15:55		Mohan	OK
18	P4887-05	MH-760	SAM	11/19/24 15:58		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133516

Review By	jaswal	Review On	11/19/2024 10:27:43 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

19	P4889-01	VNJ-228	SAM	11/19/24 16:00		Mohan	OK
20	P4889-01DUP	VNJ-228DUP	DUP	11/19/24 16:02		Mohan	OK
21	CCV11	CCV11	CCV	11/19/24 16:05		Mohan	OK
22	CCB11	CCB11	CCB	11/19/24 16:07		Mohan	OK
23	P4889-01MS	VNJ-228MS	MS	11/19/24 16:09		Mohan	OK
24	P4889-01MSD	VNJ-228MSD	MSD	11/19/24 16:15		Mohan	OK
25	P4889-03	#72-11978	SAM	11/19/24 16:17		Mohan	OK
26	P4889-05	#72-11930	SAM	11/19/24 16:19		Mohan	OK
27	P4892-01	WB-310-TOP	SAM	11/19/24 16:22	High	Mohan	Dilution
28	P4892-02	WB-310-BOT	SAM	11/19/24 16:28		Mohan	OK
29	P4893-01	MH-763	SAM	11/19/24 16:30		Mohan	OK
30	P4893-05	MH-762	SAM	11/19/24 16:32		Mohan	OK
31	P4908-01	SP-1	SAM	11/19/24 16:34		Mohan	OK
32	P4908-03	SP-2	SAM	11/19/24 16:37		Mohan	OK
33	CCV12	CCV12	CCV	11/19/24 16:39		Mohan	OK
34	CCB12	CCB12	CCB	11/19/24 16:41		Mohan	OK
35	P4909-01	BU-02-111824	SAM	11/19/24 16:44		Mohan	OK
36	P4910-01	MH-COTTAGE	SAM	11/19/24 16:46		Mohan	OK
37	P4910-05	MH-759	SAM	11/19/24 16:48		Mohan	OK
38	P4889-01L	VNJ-228L	SD	11/19/24 16:50		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133516

Review By	jaswal	Review On	11/19/2024 10:27:43 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

39	P4889-01A	VNJ-228A	PS	11/19/24 16:56		Mohan	OK
40	P4892-01DL	WB-310-TOPDL	SAM	11/19/24 17:03	Report 10X	Mohan	Confirms
41	CCV13	CCV13	CCV	11/19/24 17:06		Mohan	OK
42	CCB13	CCB13	CCB	11/19/24 17:08		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 10:55		Kareem	OK
2	S1	S1	CAL2	11/19/24 11:00		Kareem	OK
3	S2	S2	CAL3	11/19/24 11:04		Kareem	OK
4	S3	S3	CAL4	11/19/24 11:08		Kareem	OK
5	S4	S4	CAL5	11/19/24 11:13		Kareem	OK
6	S5	S5	CAL6	11/19/24 11:17		Kareem	OK
7	ICV01	ICV01	ICV	11/19/24 11:25		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/19/24 11:34		Kareem	OK
9	ICB01	ICB01	ICB	11/19/24 11:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/19/24 11:43		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/19/24 11:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/24 11:51		Kareem	OK
13	CCV01	CCV01	CCV	11/19/24 12:43		Kareem	OK
14	CCB01	CCB01	CCB	11/19/24 12:48		Kareem	OK
15	PB165067BL	PB165067BL	MB	11/19/24 12:52		Kareem	OK
16	PB165067BS	PB165067BS	LCS	11/19/24 12:56	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
17	PB164759BL	PB164759BL	MB	11/19/24 13:00		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

18	PB164759BS	PB164759BS	LCS	11/19/24 13:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
19	PB164645BL	PB164645BL	MB	11/19/24 13:09		Kareem	OK
20	PB164645BS	PB164645BS	LCS	11/19/24 13:13	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
21	PB164944TB	PB164944TB	MB	11/19/24 13:17		Kareem	OK
22	P4892-01	WB-310-TOP	SAM	11/19/24 13:22	Cr high	Kareem	Dilution
23	P4892-02	WB-310-BOT	SAM	11/19/24 13:26		Kareem	OK
24	P4893-01	MH-763	SAM	11/19/24 13:30		Kareem	OK
25	CCV02	CCV02	CCV	11/19/24 13:34		Kareem	OK
26	CCB02	CCB02	CCB	11/19/24 13:38		Kareem	OK
27	P4893-05	MH-762	SAM	11/19/24 13:42		Kareem	OK
28	P4908-01	SP-1	SAM	11/19/24 13:46		Kareem	OK
29	P4908-03	SP-2	SAM	11/19/24 13:51		Kareem	OK
30	P4909-01	BU-02-111824	SAM	11/19/24 13:55		Kareem	OK
31	P4909-01DUP	BU-02-111824DUP	DUP	11/19/24 13:59		Kareem	OK
32	P4909-01L	BU-02-111824L	SD	11/19/24 14:03		Kareem	OK
33	P4909-01MS	BU-02-111824MS	MS	11/19/24 14:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	P4909-01MSD	BU-02-111824MSD	MSD	11/19/24 14:12	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

35	P4909-01A	BU-02-111824A	PS	11/19/24 14:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
36	P4890-01	#3711	SAM	11/19/24 14:20		Kareem	OK
37	CCV03	CCV03	CCV	11/19/24 14:24		Kareem	OK
38	CCB03	CCB03	CCB	11/19/24 14:28		Kareem	OK
39	P4890-02	D3617	SAM	11/19/24 14:37		Kareem	OK
40	P4890-03	D3690	SAM	11/19/24 14:41		Kareem	OK
41	P4849-02	RR-1	SAM	11/19/24 14:56		Kareem	OK
42	PB165019TB	PB165019TB	MB	11/19/24 15:00		Kareem	OK
43	P4870-13	TP-1	SAM	11/19/24 15:05		Kareem	OK
44	P4870-14	MH-735	SAM	11/19/24 15:09		Kareem	OK
45	P4870-15	MH-736	SAM	11/19/24 15:13		Kareem	OK
46	P4870-16	TP-15	SAM	11/19/24 15:18		Kareem	OK
47	P4887-02	MH-739	SAM	11/19/24 15:22		Kareem	OK
48	P4887-06	MH-760	SAM	11/19/24 15:27		Kareem	OK
49	CCV04	CCV04	CCV	11/19/24 15:31		Kareem	OK
50	CCB04	CCB04	CCB	11/19/24 15:36		Kareem	OK
51	PB165049BL	PB165049BL	MB	11/19/24 15:44		Kareem	OK
52	PB165049BS	PB165049BS	LCS	11/19/24 15:49	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

53	P4892-01DL	WB-310-TOPDL	SAM	11/19/24 15:53	5x for Cr	Kareem	Confirms
54	P4341-02	10324-0	SAM	11/19/24 15:57		Kareem	OK
55	P4860-01	DUP-01	SAM	11/19/24 16:01		Kareem	OK
56	P4860-02	PH2-BOT-001	SAM	11/19/24 16:06		Kareem	OK
57	P4860-03	PH2-BOT-002	SAM	11/19/24 16:10		Kareem	OK
58	P4860-04	PH2-BOT-003	SAM	11/19/24 16:14		Kareem	OK
59	CCV05	CCV05	CCV	11/19/24 16:18		Kareem	OK
60	CCB05	CCB05	CCB	11/19/24 16:22		Kareem	OK
61	P4860-05	PH2-BOT-004	SAM	11/19/24 16:27		Kareem	OK
62	P4860-06	PH2-BOT-009	SAM	11/19/24 16:31		Kareem	OK
63	P4860-07	PH2-BOT-008	SAM	11/19/24 16:35		Kareem	OK
64	P4860-08	PH2-BOT-007	SAM	11/19/24 16:39		Kareem	OK
65	P4860-09	PH2-BOT-006	SAM	11/19/24 16:44		Kareem	OK
66	P4860-10	PH2-BOT-005	SAM	11/19/24 16:48		Kareem	OK
67	P4870-01	TP-1	SAM	11/19/24 16:52		Kareem	OK
68	P4870-04	MH-735	SAM	11/19/24 16:57		Kareem	OK
69	P4870-07	MH-736	SAM	11/19/24 17:01		Kareem	OK
70	P4870-10	TP-15	SAM	11/19/24 17:05		Kareem	OK
71	CCV06	CCV06	CCV	11/19/24 17:19		Kareem	OK
72	CCB06	CCB06	CCB	11/19/24 17:24		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

73	PB165047BL	PB165047BL	MB	11/19/24 17:28		Kareem	OK
74	PB165047BS	PB165047BS	LCS	11/19/24 17:32	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
75	LR1	LR1	HIGH STD	11/19/24 17:51		Kareem	OK
76	LR2	LR2	HIGH STD	11/19/24 17:56		Kareem	OK
77	CCV07	CCV07	CCV	11/19/24 18:01		Kareem	OK
78	CCB07	CCB07	CCB	11/19/24 18:05		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133570

Review By	jaswal	Review On	11/22/2024 9:51:29 PM
Supervise By	mohan	Supervise On	11/22/2024 9:53:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP83330,MP83331,MP83332,MP83333,MP83334,MP83335
ICV Standard	MP83336
CCV Standard	MP83338
ICSA Standard	
CRI Standard	MP83340
LCS Standard	
Chk Standard	MP83337,MP83339,MP83341,MP83345

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/22/24 08:29		Mohan	OK
2	S0.2	S0.2	CAL2	11/22/24 08:31		Mohan	OK
3	S2.5	S2.5	CAL3	11/22/24 08:34		Mohan	OK
4	S5	S5	CAL4	11/22/24 08:36		Mohan	OK
5	S7.5	S7.5	CAL5	11/22/24 08:38		Mohan	OK
6	S10	S10	CAL6	11/22/24 08:47		Mohan	OK
7	ICV97	ICV97	ICV	11/22/24 08:52		Mohan	OK
8	ICB97	ICB97	ICB	11/22/24 08:55		Mohan	OK
9	CCV31	CCV31	CCV	11/22/24 08:57		Mohan	OK
10	CCB31	CCB31	CCB	11/22/24 08:59		Mohan	OK
11	CRA	CRA	CRDL	11/22/24 09:02		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/22/24 09:04		Mohan	OK
13	ChkStd	ChkStd	SAM	11/22/24 09:09		Mohan	OK
14	PB165143BL	PB165143BL	MB	11/22/24 09:14		Mohan	OK
15	PB165143BS	PB165143BS	LCS	11/22/24 09:16		Mohan	OK
16	P4921-01	WC-11-A-202411	SAM	11/22/24 09:18		Mohan	OK
17	P4921-01DUP	WC-11-A-202411DUP	DUP	11/22/24 09:21		Mohan	OK
18	P4921-01MS	WC-11-A-202411MS	MS	11/22/24 09:23		Mohan	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133570

Review By	jaswal	Review On	11/22/2024 9:51:29 PM
Supervise By	mohan	Supervise On	11/22/2024 9:53:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP83330,MP83331,MP83332,MP83333,MP83334,MP83335
ICV Standard	MP83336
CCV Standard	MP83338
ICSA Standard	
CRI Standard	MP83340
LCS Standard	
Chk Standard	MP83337,MP83339,MP83341,MP83345

19	P4921-01MSD	WC-11-A-202411MSD	MSD	11/22/24 09:25		Mohan	OK
20	PB165179BL	PB165179BL	MB	11/22/24 09:27		Mohan	OK
21	CCV32	CCV32	CCV	11/22/24 09:30		Mohan	OK
22	CCB32	CCB32	CCB	11/22/24 09:32		Mohan	OK
23	PB165179BS	PB165179BS	LCS	11/22/24 09:34		Mohan	OK
24	P4916-04	TP-1-WC	SAM	11/22/24 09:36		Mohan	OK
25	P4916-08	TP-2-WC	SAM	11/22/24 09:39		Mohan	OK
26	P4916-12	TP-3-WC	SAM	11/22/24 09:41		Mohan	OK
27	P4923-02	COMP-1	SAM	11/22/24 09:43		Mohan	OK
28	P4923-03	COMP-2	SAM	11/22/24 09:46		Mohan	OK
29	P4923-04	COMP-3	SAM	11/22/24 09:48		Mohan	OK
30	P4923-05	COMP-4	SAM	11/22/24 09:50		Mohan	OK
31	P4923-07	72-11991	SAM	11/22/24 09:52		Mohan	OK
32	P4924-04	MH-4	SAM	11/22/24 09:55		Mohan	OK
33	CCV33	CCV33	CCV	11/22/24 09:57		Mohan	OK
34	CCB33	CCB33	CCB	11/22/24 09:59		Mohan	OK
35	P4925-04	MH-741	SAM	11/22/24 10:01		Mohan	OK
36	P4925-08	MH-741	SAM	11/22/24 10:04		Mohan	OK
37	P4929-02	ARS520	SAM	11/22/24 10:06		Mohan	OK
38	P4929-02DUP	ARS520DUP	DUP	11/22/24 10:08		Mohan	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133570

Review By	jaswal	Review On	11/22/2024 9:51:29 PM
Supervise By	mohan	Supervise On	11/22/2024 9:53:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP83330,MP83331,MP83332,MP83333,MP83334,MP83335
ICV Standard	MP83336
CCV Standard	MP83338
ICSA Standard	
CRI Standard	MP83340
LCS Standard	
Chk Standard	MP83337,MP83339,MP83341,MP83345

39	P4929-02MS	ARS520MS	MS	11/22/24 10:10		Mohan	OK
40	P4929-02MSD	ARS520MSD	MSD	11/22/24 10:13		Mohan	OK
41	PB165183BL	PB165183BL	MB	11/22/24 10:15		Mohan	OK
42	PB165183BS	PB165183BS	LCS	11/22/24 10:17		Mohan	OK
43	P4892-04	WB-310-SW	SAM	11/22/24 10:20		Mohan	OK
44	P4892-04DUP	WB-310-SWDUP	DUP	11/22/24 10:22		Mohan	OK
45	CCV34	CCV34	CCV	11/22/24 10:27		Mohan	OK
46	CCB34	CCB34	CCB	11/22/24 10:31		Mohan	OK
47	P4892-04MS	WB-310-SWMS	MS	11/22/24 10:33		Mohan	OK
48	P4892-04MSD	WB-310-SWMSD	MSD	11/22/24 10:35		Mohan	OK
49	P4927-01	111424-C	SAM	11/22/24 10:37		Mohan	OK
50	PB165179TB	PB165179TB	MB	11/22/24 10:42		Mohan	OK
51	PB165123TB	PB165123TB	MB	11/22/24 10:45		Mohan	OK
52	CCV35	CCV35	CCV	11/22/24 10:47		Mohan	OK
53	CCB35	CCB35	CCB	11/22/24 10:52		Mohan	OK
54	P4921-01L	WC-11-A-202411L	SD	11/22/24 10:54		Mohan	OK
55	P4921-01A	WC-11-A-202411A	PS	11/22/24 10:56		Mohan	OK
56	P4929-02L	ARS520L	SD	11/22/24 10:59		Mohan	OK
57	P4929-02A	ARS520A	PS	11/22/24 11:01		Mohan	OK
58	P4892-04L	WB-310-SWL	SD	11/22/24 11:03		Mohan	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133570

Review By	jaswal	Review On	11/22/2024 9:51:29 PM
Supervise By	mohan	Supervise On	11/22/2024 9:53:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP83330,MP83331,MP83332,MP83333,MP83334,MP83335
ICV Standard	MP83336
CCV Standard	MP83338
ICSA Standard	
CRI Standard	MP83340
LCS Standard	
Chk Standard	MP83337,MP83339,MP83341,MP83345

59	P4892-04A	WB-310-SWA	PS	11/22/24 11:05		Mohan	OK
60	CCV36	CCV36	CCV	11/22/24 11:17		Mohan	OK
61	CCB36	CCB36	CCB	11/22/24 11:19		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133619

Review By	jaswal	Review On	11/29/2024 12:29:10 AM
Supervise By	mohan	Supervise On	11/29/2024 12:29:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/25/24 12:20		Kareem	OK
2	S1	S1	CAL2	11/25/24 12:24		Kareem	OK
3	S2	S2	CAL3	11/25/24 12:28		Kareem	OK
4	S3	S3	CAL4	11/25/24 12:33		Kareem	OK
5	S4	S4	CAL5	11/25/24 12:37		Kareem	OK
6	S5	S5	CAL6	11/25/24 12:41		Kareem	OK
7	ICV01	ICV01	ICV	11/25/24 12:46		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/25/24 13:10		Kareem	OK
9	ICB01	ICB01	ICB	11/25/24 13:14		Kareem	OK
10	CRI01	CRI01	CRDL	11/25/24 13:25		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/25/24 13:30		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/25/24 13:34		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/25/24 13:39		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/25/24 13:44		Kareem	OK
15	CCV01	CCV01	CCV	11/25/24 13:48		Kareem	OK
16	CCB01	CCB01	CCB	11/25/24 13:53		Kareem	OK
17	P4948-01	337	SAM	11/25/24 13:57		Kareem	OK
18	P4948-01DUP	337DUP	DUP	11/25/24 14:01		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133619

Review By	jaswal	Review On	11/29/2024 12:29:10 AM
Supervise By	mohan	Supervise On	11/29/2024 12:29:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4948-03	72-11944	SAM	11/25/24 14:05		Kareem	OK
20	P4949-03	CONTAINMENT-STO	SAM	11/25/24 14:09		Kareem	OK
21	P4949-01	REACTOR-SUMP	SAM	11/25/24 14:14	Confirm wt (50/50)	Kareem	OK
22	P4967-01	001-WILLETS-PT-BL	SAM	11/25/24 14:18		Kareem	OK
23	P4967-02	002-35TH-AVE	SAM	11/25/24 14:22		Kareem	OK
24	CCV02	CCV02	CCV	11/25/24 14:27		Kareem	OK
25	CCB02	CCB02	CCB	11/25/24 14:31		Kareem	OK
26	P4951-01	AU-05-112124	SAM	11/25/24 14:35		Kareem	OK
27	P4954-01	TR-05-112124	SAM	11/25/24 14:39		Kareem	OK
28	P4948-01L	337L	SD	11/25/24 14:44		Kareem	OK
29	P4948-01MS	337MS	MS	11/25/24 14:48		Kareem	OK
30	P4948-01MSD	337MSD	MSD	11/25/24 14:52		Kareem	OK
31	P4948-01A	337A	PS	11/25/24 14:56		Kareem	OK
32	P4954-03	TR-06-112124	SAM	11/25/24 15:00		Kareem	OK
33	PB165180BL	PB165180BL	MB	11/25/24 15:04		Kareem	OK
34	PB165180BS	PB165180BS	LCS	11/25/24 15:08		Kareem	OK
35	P4967-02DUP	002-35TH-AVEDUP	DUP	11/25/24 15:12		Kareem	OK
36	CCV03	CCV03	CCV	11/25/24 15:17		Kareem	OK
37	CCB03	CCB03	CCB	11/25/24 15:21		Kareem	OK
38	P4967-02L	002-35TH-AVEL	SD	11/25/24 15:25		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133619

Review By	jaswal	Review On	11/29/2024 12:29:10 AM
Supervise By	mohan	Supervise On	11/29/2024 12:29:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

39	P4967-02MS	002-35TH-AVEMS	MS	11/25/24 15:30		Kareem	OK
40	P4967-02MSD	002-35TH-AVEMSD	MSD	11/25/24 15:34		Kareem	OK
41	P4967-02A	002-35TH-AVEA	PS	11/25/24 15:38		Kareem	OK
42	PB165204BL	PB165204BL	MB	11/25/24 15:42		Kareem	OK
43	PB165204BS	PB165204BS	LCS	11/25/24 15:46		Kareem	OK
44	P4892-04	WB-310-SW	SAM	11/25/24 15:50	Na (OverSaturated)	Kareem	Dilution
45	P4892-04DUP	WB-310-SWDUP	DUP	11/25/24 15:55	Na (OverSaturated)	Kareem	Dilution
46	P4892-04L	WB-310-SWL	SD	11/25/24 15:59	Na (OverSaturated)	Kareem	Dilution
47	P4892-04MS	WB-310-SWMS	MS	11/25/24 16:04	Na (OverSaturated)	Kareem	Dilution
48	CCV04	CCV04	CCV	11/25/24 16:13		Kareem	OK
49	CCB04	CCB04	CCB	11/25/24 16:22		Kareem	OK
50	P4892-04MSD	WB-310-SWMSD	MSD	11/25/24 16:27	Na (OverSaturated)	Kareem	Dilution
51	P4892-04A	WB-310-SWA	PS	11/25/24 16:31		Kareem	OK
52	P4947-01	A3988	SAM	11/25/24 16:36		Kareem	OK
53	P4892-04DL	WB-310-SWDL	SAM	11/25/24 16:40	10x for Na	Kareem	Confirms
54	P4892-04MSDL	WB-310-SWMSDL	MS	11/25/24 16:54	10x for Na	Kareem	Confirms
55	P4892-04MSDDL	WB-310-SWMSDDL	MSD	11/25/24 16:58	10x for Na	Kareem	Confirms
56	P4892-04ADL	WB-310-SWADL	PS	11/25/24 17:03	Not Required	Kareem	Not Ok
57	CCV05	CCV05	CCV	11/25/24 17:13		Kareem	OK
58	CCB05	CCB05	CCB	11/25/24 17:18		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133619

Review By	jaswal	Review On	11/29/2024 12:29:10 AM
Supervise By	mohan	Supervise On	11/29/2024 12:29:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

59	P4892-04DUPDL	WB-310-SWDUPDL	DUP	11/25/24 17:22	10x for Na	Kareem	Confirms
60	P4892-04LDL	WB-310-SWLDL	SD	11/25/24 17:27	50x for Na	Kareem	Confirms
61	LR1	LR1	HIGH STD	11/25/24 17:33		Kareem	OK
62	LR2	LR2	HIGH STD	11/25/24 17:38		Kareem	OK
63	PB165181BL	PB165181BL	MB	11/25/24 17:44		Kareem	OK
64	PB165181BS	PB165181BS	LCS	11/25/24 17:48		Kareem	OK
65	CCV06	CCV06	CCV	11/25/24 17:53		Kareem	OK
66	CCB06	CCB06	CCB	11/25/24 18:02		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165067

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 11/18/2024 **Time :** 15:30 **Temp :** 96 °C

End Digest Date: 11/18/2024 **Time :** 17:35 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: jgp

Supervisor Signature: JB

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83122
Conc. HNO3	5.00	M6120
30% H2O2	3.00	M5634
Conc. HCL	10.00	M6118
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#2 CELL #33: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/18/24 18:00	jgp / Met dig	JM / MSA 11/19/24
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165067

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4892-01	WB-310-TOP	N/A	2.17	100	Black	Yellow	Medium	N/A	N/A	1
P4892-02	WB-310-BOT	N/A	2.34	100	Brown	Yellow	Medium	N/A	N/A	2
P4893-01	MH-763	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	3
P4893-05	MH-762	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	4
P4908-01	SP-1	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	5
P4908-03	SP-2	N/A	2.23	100	Brown	Yellow	Medium	N/A	N/A	6
P4909-01	BU-02-111824	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	7
P4909-01MS	BU-02-111824MS	N/A	2.15	100	Brown	Yellow	Medium	N/A	M6000,M6009	9
P4909-01MSD	BU-02-111824MSD	N/A	2.28	100	Brown	Yellow	Medium	N/A	M6000, M6009	10
P4909-01DUP	BU-02-111824DUP	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	8
PB165067BL	PBS067	N/A	2.31	100	Colorless	Colorless	Fine	N/A	N/A	11
PB165067BS	LCS067	N/A	2.31	100	Colorless	Colorless	Fine	N/A	M6000,M6009	12

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB165113

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/19/2024 **Time :** 11:05 **Temp :** 93 °C

End Digest Date: 11/19/2024 **Time :** 11:35 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 93°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83303
CCV	30mL	MP83305
CRA	30mL	MP83307
Blank Spike	0.48mL	MP83296
Matrix Spike	0.48mL	MP83296

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP83309
KMnO4 (5%)	4.5mL	MP83208
Hydroxylamine HCL (12%)	2.0mL	MP83210
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	MP83297
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83298
2.5 ppb	S2.5	30mL	MP83299
5.0 ppb	S5.0	30mL	MP83300
7.5 ppb	S7.5	30mL	MP83301
10.0 ppb	S10.0	30mL	MP83302
ICV	ICV	30mL	MP83303
ICB	ICB	30mL	MP83304
CCV	CCV	30mL	MP83305
CCB	CCB	30mL	MP83306
CRI	CRI	30mL	MP83307
CHK STD	CHK STD	30mL	MP83308

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/2024 12:15	MB - Mfg. Lab	MB - MC Test Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB165113

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4869-01	EO-02-11152024	0.58	35	NA	N/A	3-1
P4887-01	MH-739	0.53	35	NA	N/A	2
P4887-05	MH-760	0.58	35	NA	N/A	3
P4889-01	VNJ-228	0.53	35	NA	N/A	4
P4889-01DUP	VNJ-228DUP	0.56	35	NA	N/A	5
P4889-01MS	VNJ-228MS	0.55	35	NA	MP83296	6
P4889-01MSD	VNJ-228MSD	0.59	35	NA	MP83296	7
P4889-03	#72-11978	0.53	35	NA	N/A	8
P4889-05	#72-11930	0.53	35	NA	N/A	9
P4892-01	WB-310-TOP	0.59	35	NA	N/A	10
P4892-02	WB-310-BOT	0.60	35	NA	N/A	11
P4893-01	MH-763	0.58	35	NA	N/A	12
P4893-05	MH-762	0.55	35	NA	N/A	13
P4908-01	SP-1	0.55	35	NA	N/A	14
P4908-03	SP-2	0.52	35	NA	N/A	15
P4909-01	BU-02-111824	0.57	35	NA	N/A	16
P4910-01	MH-COTTAGE	0.52	35	NA	N/A	17
P4910-05	MH-759	0.59	35	NA	N/A	18
PB165113BL	PBS113	0.55	35	NA	N/A	19
PB165113BS	LCS113	0.52	35	NA	MP83296	20

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165181

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/22/2024 **Time :** 09:15 **Temp :** 95 °C

End Digest Date: 11/22/2024 **Time :** 12:30 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: jgp

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6124
1:1 HCL	5.00	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL#50 Temp : 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/22/24 13:00	jgp / Met dig.	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165181

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4892-04	WB-310-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P4892-04MS	WB-310-SWMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	3
P4892-04MSD	WB-310-SWMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	4
P4892-04DUP	WB-310-SWDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P4947-01	A3988	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
P4949-01	REACTOR-SUMP	<2	50	50	Pale Yellow	Yellow	Cloudy	Clear	Oil Sample	6
PB165181BL	PBW181	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
PB165181BS	LCS181	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	8

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165183

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/21/2024 **Time :** 15:10 **Temp :** 94 °C

End Digest Date: 11/21/2024 **Time :** 17:10 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP833236
CCV	30mL	MP83338
CRA	30mL	MP83340
Blank Spike	0.48mL	MP83329
Matrix Spike	0.48mL	MP83329

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP83207
KMnO4 (5%)	4.5mL	MP83208
K2S2O8 (5%)	2.5mL	MP83209
Hydroxylamine HCL (12%)	2.0mL	MP83210
N/A	N/A	N/A
N/A	N/A	N/A
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	MP83330
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83331
2.5 ppb	S2.5	30mL	MP83332
5.0 ppb	S5.0	30mL	MP83333
7.5 ppb	S7.5	30mL	MP83334
10.0 ppb	S10.0	30mL	MP83335
ICV	ICV	30mL	MP83336
ICB	ICB	30mL	MP83337
CCV	CCV	30mL	MP83338
CCB	CCB	30mL	MP83339
CRI	CRI	30mL	MP83340
CHK STD	CHK STD	30mL	MP83341

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/21/24 @ 17:40	MB- DIG, WB	MB - Metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165183

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4892-04DUP	WB-310-SWDUP	30	30	<2	N/A	2
P4892-04MS	WB-310-SWMS	30	30	<2	MP83329	3
P4892-04MSD	WB-310-SWMSD	30	30	<2	MP83329	4
P4892-04	WB-310-SW	30	30	<2	N/A	3-1
P4927-01	111424-C	30	30	<2	N/A	5
PB165183BL	PBW183	30	30	<2	N/A	6
PB165183BS	LCS183	30	30	<2	MP83329	7

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

Hit Summary Sheet
SW-846

SDG No.:	P4892	**Order ID:**	P4892
Client:	Portal Partners Tri-Venture	**Project ID:**	Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-310-BOT								
P4892-03	WB-310-BOT	TCLP	Barium	455	J	62.8	500	ug/L
P4892-03	WB-310-BOT	TCLP	Chromium	13.5	J	6.60	50.0	ug/L

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7440-39-3	Barium	455	JN	1	62.8	500	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7440-47-3	Chromium	13.5	J	1	6.60	50.0	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/19/24 13:05	11/19/24 12:14	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/19/24 13:00	11/20/24 13:55	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/19/24 13:00	11/20/24 13:55	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

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB90	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	11:21	LB133509

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	11:28	LB133509
CCB06	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	11:55	LB133509
CCB07	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	12:23	LB133509
CCB08	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	13:12	LB133509
CCB09	Mercury	0.20	+/-0.20	U	0.20	CV	11/19/2024	13:35	LB133509

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/20/2024	13:09	LB133540
	Barium	100	+/-100	U	100	P	11/20/2024	13:09	LB133540
	Cadmium	6.00	+/-6.00	U	6.00	P	11/20/2024	13:09	LB133540
	Chromium	10.0	+/-10.0	U	10.0	P	11/20/2024	13:09	LB133540
	Lead	12.0	+/-12.0	U	12.0	P	11/20/2024	13:09	LB133540
	Selenium	20.0	+/-20.0	U	20.0	P	11/20/2024	13:09	LB133540
	Silver	10.0	+/-10.0	U	10.0	P	11/20/2024	13:09	LB133540

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/20/2024	13:46	LB133540
	Barium	100	+/-100	U	100	P	11/20/2024	13:46	LB133540
	Cadmium	6.00	+/-6.00	U	6.00	P	11/20/2024	13:46	LB133540
	Chromium	10.0	+/-10.0	U	10.0	P	11/20/2024	13:46	LB133540
	Lead	12.0	+/-12.0	U	12.0	P	11/20/2024	13:46	LB133540
	Selenium	20.0	+/-20.0	U	20.0	P	11/20/2024	13:46	LB133540
	Silver	10.0	+/-10.0	U	10.0	P	11/20/2024	13:46	LB133540
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/20/2024	15:00	LB133540
	Barium	100	+/-100	U	100	P	11/20/2024	15:00	LB133540
	Cadmium	6.00	+/-6.00	U	6.00	P	11/20/2024	15:00	LB133540
	Chromium	10.0	+/-10.0	U	10.0	P	11/20/2024	15:00	LB133540
	Lead	12.0	+/-12.0	U	12.0	P	11/20/2024	15:00	LB133540
	Selenium	20.0	+/-20.0	U	20.0	P	11/20/2024	15:00	LB133540
	Silver	10.0	+/-10.0	U	10.0	P	11/20/2024	15:00	LB133540
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	11/20/2024	16:52	LB133540
	Barium	100	+/-100	U	100	P	11/20/2024	16:52	LB133540
	Cadmium	6.00	+/-6.00	U	6.00	P	11/20/2024	16:52	LB133540
	Chromium	10.0	+/-10.0	U	10.0	P	11/20/2024	16:52	LB133540
	Lead	12.0	+/-12.0	U	12.0	P	11/20/2024	16:52	LB133540
	Selenium	20.0	+/-20.0	U	20.0	P	11/20/2024	16:52	LB133540
	Silver	10.0	+/-10.0	U	10.0	P	11/20/2024	16:52	LB133540

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165060TB		**WATER**		**Batch Number:**	**PB165079**		**Prep Date:**	**11/19/2024**	
	Mercury	2.00	<2.00	U	2.00	CV	11/19/2024	13:19	LB133509

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165079BL		**WATER**		**Batch Number:**	**PB165079**		**Prep Date:**	**11/19/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/19/2024	11:37	LB133509

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165060TB		**WATER**		**Batch Number:**	**PB165118**		**Prep Date:**	**11/19/2024**	
	Arsenic	100	<100	U	100	P	11/20/2024	15:41	LB133540
	Barium	500	<500	U	500	P	11/20/2024	15:41	LB133540
	Cadmium	30.0	<30.0	U	30.0	P	11/20/2024	15:41	LB133540
	Chromium	50.0	<50.0	U	50.0	P	11/20/2024	15:41	LB133540
	Lead	60.0	<60.0	U	60.0	P	11/20/2024	15:41	LB133540
	Selenium	100	<100	U	100	P	11/20/2024	15:41	LB133540
	Silver	50.0	<50.0	U	50.0	P	11/20/2024	15:41	LB133540

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165118BL		**WATER**		**Batch Number:**	**PB165118**		**Prep Date:**	**11/19/2024**	
	Arsenic	100	<100	U	100	P	11/20/2024	15:45	LB133540
	Barium	500	<500	U	500	P	11/20/2024	15:45	LB133540
	Cadmium	30.0	<30.0	U	30.0	P	11/20/2024	15:45	LB133540
	Chromium	50.0	<50.0	U	50.0	P	11/20/2024	15:45	LB133540
	Lead	60.0	<60.0	U	60.0	P	11/20/2024	15:45	LB133540
	Selenium	100	<100	U	100	P	11/20/2024	15:45	LB133540
	Silver	50.0	<50.0	U	50.0	P	11/20/2024	15:45	LB133540

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
ICV90	Mercury	3.62	4.0	90	90 - 110	CV	11/19/2024	11:19	LB133509

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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
CCV05	Mercury	5.35	5.0	107	90 - 110	CV	11/19/2024	11:26	LB133509
CCV06	Mercury	5.23	5.0	104	90 - 110	CV	11/19/2024	11:53	LB133509
CCV07	Mercury	5.03	5.0	101	90 - 110	CV	11/19/2024	12:20	LB133509
CCV08	Mercury	5.06	5.0	101	90 - 110	CV	11/19/2024	13:10	LB133509
CCV09	Mercury	5.33	5.0	107	90 - 110	CV	11/19/2024	13:33	LB133509

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	11/20/2024	12:50	LB133540
	Barium	535	520	103	90 - 110	P	11/20/2024	12:50	LB133540
	Cadmium	529	510	104	90 - 110	P	11/20/2024	12:50	LB133540
	Chromium	548	520	106	90 - 110	P	11/20/2024	12:50	LB133540
	Lead	1050	1000	105	90 - 110	P	11/20/2024	12:50	LB133540
	Selenium	1070	1000	107	90 - 110	P	11/20/2024	12:50	LB133540
	Silver	267	250	107	90 - 110	P	11/20/2024	12:50	LB133540

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	17.6	20.0	88	80 - 120	P	11/20/2024	12:59	LB133540
	Barium	95.0	100	95	80 - 120	P	11/20/2024	12:59	LB133540
	Cadmium	6.86	6.0	114	80 - 120	P	11/20/2024	12:59	LB133540
	Chromium	10.0	10.0	100	80 - 120	P	11/20/2024	12:59	LB133540
	Lead	11.5	12.0	96	80 - 120	P	11/20/2024	12:59	LB133540
	Selenium	16.0	20.0	80	80 - 120	P	11/20/2024	12:59	LB133540
	Silver	10.1	10.0	101	80 - 120	P	11/20/2024	12:59	LB133540

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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	4940	5000	99	90 - 110	P	11/20/2024	13:35	LB133540
	Barium	9530	10000	95	90 - 110	P	11/20/2024	13:35	LB133540
	Cadmium	2440	2500	98	90 - 110	P	11/20/2024	13:35	LB133540
	Chromium	1020	1000	102	90 - 110	P	11/20/2024	13:35	LB133540
	Lead	4920	5000	98	90 - 110	P	11/20/2024	13:35	LB133540
	Selenium	5030	5000	101	90 - 110	P	11/20/2024	13:35	LB133540
	Silver	1250	1250	100	90 - 110	P	11/20/2024	13:35	LB133540
CCV02	Arsenic	5460	5000	109	90 - 110	P	11/20/2024	14:50	LB133540
	Barium	9550	10000	96	90 - 110	P	11/20/2024	14:50	LB133540
	Cadmium	2610	2500	104	90 - 110	P	11/20/2024	14:50	LB133540
	Chromium	905	1000	90	90 - 110	P	11/20/2024	14:50	LB133540
	Lead	5120	5000	102	90 - 110	P	11/20/2024	14:50	LB133540
	Selenium	4620	5000	92	90 - 110	P	11/20/2024	14:50	LB133540
	Silver	1290	1250	103	90 - 110	P	11/20/2024	14:50	LB133540
CCV03	Arsenic	4610	5000	92	90 - 110	P	11/20/2024	16:48	LB133540
	Barium	9040	10000	90	90 - 110	P	11/20/2024	16:48	LB133540
	Cadmium	2300	2500	92	90 - 110	P	11/20/2024	16:48	LB133540
	Chromium	971	1000	97	90 - 110	P	11/20/2024	16:48	LB133540
	Lead	4640	5000	93	90 - 110	P	11/20/2024	16:48	LB133540
	Selenium	4720	5000	94	90 - 110	P	11/20/2024	16:48	LB133540
	Silver	1200	1250	96	90 - 110	P	11/20/2024	16:48	LB133540

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.17	0.2	87	40 - 160	CV	11/19/2024	11:30	LB133509
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	11/20/2024	13:13	LB133540
	Barium	99.7	100	100	40 - 160	P	11/20/2024	13:13	LB133540
	Cadmium	7.32	6.0	122	40 - 160	P	11/20/2024	13:13	LB133540
	Chromium	10.5	10.0	105	40 - 160	P	11/20/2024	13:13	LB133540
	Lead	12.4	12.0	104	40 - 160	P	11/20/2024	13:13	LB133540
	Selenium	15.8	20.0	79	40 - 160	P	11/20/2024	13:13	LB133540
	Silver	11.0	10.0	110	40 - 160	P	11/20/2024	13:13	LB133540

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	5.49			-20	20	11/20/2024	13:17	LB133540
	Barium	1.32	6.0	22	-94	106	11/20/2024	13:17	LB133540
	Cadmium	6.68	1.0	668	-5	7	11/20/2024	13:17	LB133540
	Chromium	58.8	52.0	113	42	62	11/20/2024	13:17	LB133540
	Lead	7.49			-12	12	11/20/2024	13:17	LB133540
	Selenium	-18.8			-20	20	11/20/2024	13:17	LB133540
	Silver	-1.10			-10	10	11/20/2024	13:17	LB133540
ICSAB01	Arsenic	118	104	114	88.4	120	11/20/2024	13:28	LB133540
	Barium	517	537	96	437	637	11/20/2024	13:28	LB133540
	Cadmium	1050	972	108	826	1120	11/20/2024	13:28	LB133540
	Chromium	583	542	108	460	624	11/20/2024	13:28	LB133540
	Lead	57.8	49.0	118	37	61	11/20/2024	13:28	LB133540
	Selenium	30.2	46.0	66	26	66	11/20/2024	13:28	LB133540
	Silver	206	201	102	170	232	11/20/2024	13:28	LB133540

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4887-06 **client id:** MH-760MS

Percent Solids for Sample: NA **Spiked ID:** P4887-06MS **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	40.3		2.00	U	40.0	101		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4887-06 **client id:** MH-760MSD

Percent Solids for Sample: NA **Spiked ID:** P4887-06MSD **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	40.8		2.00	U	40.0	102		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4910-08 **client id:** MH-759MS

Percent Solids for Sample: NA **Spiked ID:** P4910-08MS **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	3690		100	U	4000	92		P
Barium	ug/L	75 - 125	3320		2800		1000	52	N	P
Cadmium	ug/L	75 - 125	876		1.51	J	1000	87		P
Chromium	ug/L	75 - 125	1840		50.0	U	2000	92		P
Lead	ug/L	75 - 125	4170		60.0	U	5000	83		P
Selenium	ug/L	75 - 125	9310		100	U	10000	93		P
Silver	ug/L	75 - 125	353		50.0	U	380	93		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4892

contract: PORT06 **lab code:** CHEM **case no.:** P4892 **sas no.:** P4892

matrix: Water **sample id:** P4910-08 **client id:** MH-759MSD

Percent Solids for Sample: NA **Spiked ID:** P4910-08MSD **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	3630		100	U	4000	91		P
Barium	ug/L	75 - 125	3320		2800		1000	52	N	P
Cadmium	ug/L	75 - 125	865		1.51	J	1000	86		P
Chromium	ug/L	75 - 125	1800		50.0	U	2000	90		P
Lead	ug/L	75 - 125	4110		60.0	U	5000	82		P
Selenium	ug/L	75 - 125	9130		100	U	10000	91		P
Silver	ug/L	75 - 125	344		50.0	U	380	90		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Level:** LOW **Client ID:** MH-759A

Sample ID: P4910-08 **Spiked ID:** P4910-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	3150		2800		1000	35		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4887-06 **Client ID:** MH-760DUP

Percent Solids for Sample: NA **Duplicate ID** P4887-06DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.00	U	2.00	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4887-06MS **Client ID:** MH-760MSD

Percent Solids for Sample: NA **Duplicate ID** P4887-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	40.3		40.8		1		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4910-08 **Client ID:** MH-759DUP

Percent Solids for Sample: NA **Duplicate ID** P4910-08DUP **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	2800		2800		0		P
Cadmium	ug/L	20	1.51	J	1.37	J	10		P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	60.0	U	60.0	U			P
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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Matrix: Water **Sample ID:** P4910-08MS **Client ID:** MH-759MSD

Percent Solids for Sample: NA **Duplicate ID** P4910-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3690		3630		2		P
Barium	ug/L	20	3320		3320		0		P
Cadmium	ug/L	20	876		865		1		P
Chromium	ug/L	20	1840		1800		2		P
Lead	ug/L	20	4170		4110		1		P
Selenium	ug/L	20	9310		9130		2		P
Silver	ug/L	20	353		344		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165079BS							
Mercury	ug/L	4.0	3.47		87	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165118BS							
Arsenic	ug/L	4000	3580		90	80 - 120	P
Barium	ug/L	1000	879		88	80 - 120	P
Cadmium	ug/L	1000	904		90	80 - 120	P
Chromium	ug/L	2000	1910		96	80 - 120	P
Lead	ug/L	5000	4550		91	80 - 120	P
Selenium	ug/L	10000	9200		92	80 - 120	P
Silver	ug/L	380	350		92	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MH-760L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133509 **Lab Sample ID :** P4887-06L **SDG No.:** P4892

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	2.00	U	10.0	U			CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MH-759L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133540 **Lab Sample ID :** P4910-08L **SDG No.:** P4892

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	2800		2810		0		P
Cadmium	1.51	J	150	U	100.0		P
Chromium	50.0	U	250	U			P
Lead	60.0	U	300	U			P
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.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133509

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1105	HG
S0.2	S0.2	1	1107	HG
S2.5	S2.5	1	1109	HG
S5	S5	1	1111	HG
S7.5	S7.5	1	1114	HG
S10	S10	1	1116	HG
ICV90	ICV90	1	1119	HG
ICB90	ICB90	1	1121	HG
CCV05	CCV05	1	1126	HG
CCB05	CCB05	1	1128	HG
CRA	CRA	1	1130	HG
PB165079BL	PB165079BL	1	1137	HG
PB165079BS	PB165079BS	1	1140	HG
CCV06	CCV06	1	1153	HG
CCB06	CCB06	1	1155	HG
P4887-06DUP	MH-760DUP	1	1204	HG
P4887-06MS	MH-760MS	1	1207	HG
P4887-06MSD	MH-760MSD	1	1209	HG
P4892-03	WB-310-BOT	1	1214	HG
CCV07	CCV07	1	1220	HG
CCB07	CCB07	1	1223	HG
CCV08	CCV08	1	1310	HG
CCB08	CCB08	1	1312	HG
PB165060TB	PB165060TB	1	1319	HG
P4887-06L	MH-760L	5	1324	HG
CCV09	CCV09	1	1333	HG
CCB09	CCB09	1	1335	HG

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4892 **Sas no.:** P4892 **Sdg no.:** P4892

Instrument id number: **Method:** **Run number:** LB133540

Start date: 11/20/2024 **End date:** 11/20/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1217	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1222	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1226	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1230	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1235	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1239	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1250	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1309	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1328	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1335	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1346	Ag,As,Ba,Cd,Cr,Pb,Se
P4892-03	WB-310-BOT	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
P4910-08DUP	MH-759DUP	1	1417	Ag,As,Ba,Cd,Cr,Pb,Se
P4910-08L	MH-759L	5	1421	Ag,As,Ba,Cd,Cr,Pb,Se
P4910-08MS	MH-759MS	1	1426	Ag,As,Ba,Cd,Cr,Pb,Se
P4910-08MSD	MH-759MSD	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1500	Ag,As,Ba,Cd,Cr,Pb,Se
P4910-08A	MH-759A	1	1504	Ba
PB165060TB	PB165060TB	1	1541	Ag,As,Ba,Cd,Cr,Pb,Se
PB165118BL	PB165118BL	1	1545	Ag,As,Ba,Cd,Cr,Pb,Se
PB165118BS	PB165118BS	1	1617	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1648	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4892 **SAS No.:** P4892

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:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			Mercury	7471B		11/19/24	11/19/24	
			Metals ICP-TAL	6010D		11/18/24	11/19/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			Mercury	7471B		11/19/24	11/19/24	
			Metals ICP-TAL	6010D		11/18/24	11/19/24	
P4892-03	**WB-310-BOT**	**TCLP**			**11/15/24**			**11/15/24**
			TCLP ICP Metals	6010D		11/19/24	11/20/24	
			TCLP Mercury	7470A		11/19/24	11/19/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			Mercury	7470A		11/22/24	11/22/24	
			Metals ICP-TAL	6010D		11/22/24	11/25/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165079**						
P4887-06DUP	MH-760DUP	DUP	WATER	11/19/2024	3.0	30.0	
P4887-06MS	MH-760MS	MS	WATER	11/19/2024	3.0	30.0	
P4887-06MSD	MH-760MSD	MSD	WATER	11/19/2024	3.0	30.0	
P4892-03	WB-310-BOT	SAM	WATER	11/19/2024	3.0	30.0	
PB165060TB	PB165060TB	MB	WATER	11/19/2024	3.0	30.0	
PB165079BL	PB165079BL	MB	WATER	11/19/2024	30.0	30.0	
PB165079BS	PB165079BS	LCS	WATER	11/19/2024	30.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4892 **SAS No.:** P4892

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165118**						
P4892-03	WB-310-BOT	SAM	WATER	11/19/2024	5.0	25.0	
P4910-08DUP	MH-759DUP	DUP	WATER	11/19/2024	5.0	25.0	
P4910-08MS	MH-759MS	MS	WATER	11/19/2024	5.0	25.0	
P4910-08MSD	MH-759MSD	MSD	WATER	11/19/2024	5.0	25.0	
PB165060TB	PB165060TB	MB	WATER	11/19/2024	5.0	25.0	
PB165118BL	PB165118BL	MB	WATER	11/19/2024	5.0	25.0	
PB165118BS	PB165118BS	LCS	WATER	11/19/2024	5.0	25.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133509

Review By	jaswal	Review On	11/19/2024 10:27:51 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:36 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 11:05		Mohan	OK
2	S0.2	S0.2	CAL2	11/19/24 11:07		Mohan	OK
3	S2.5	S2.5	CAL3	11/19/24 11:09		Mohan	OK
4	S5	S5	CAL4	11/19/24 11:11		Mohan	OK
5	S7.5	S7.5	CAL5	11/19/24 11:14		Mohan	OK
6	S10	S10	CAL6	11/19/24 11:16		Mohan	OK
7	ICV90	ICV90	ICV	11/19/24 11:19		Mohan	OK
8	ICB90	ICB90	ICB	11/19/24 11:21		Mohan	OK
9	CCV05	CCV05	CCV	11/19/24 11:26		Mohan	OK
10	CCB05	CCB05	CCB	11/19/24 11:28		Mohan	OK
11	CRA	CRA	CRDL	11/19/24 11:30		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/19/24 11:33		Mohan	OK
13	ChkStd	ChkStd	SAM	11/19/24 11:35		Mohan	OK
14	PB165079BL	PB165079BL	MB	11/19/24 11:37		Mohan	OK
15	PB165079BS	PB165079BS	LCS	11/19/24 11:40		Mohan	OK
16	P4848-02	TP-1	SAM	11/19/24 11:42		Mohan	OK
17	P4849-02	RR-1	SAM	11/19/24 11:44		Mohan	OK
18	P4870-13	TP-1	SAM	11/19/24 11:46		Mohan	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133509

Review By	jaswal	Review On	11/19/2024 10:27:51 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:36 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

19	P4870-14	MH-735	SAM	11/19/24 11:49		Mohan	OK
20	P4870-15	MH-736	SAM	11/19/24 11:51		Mohan	OK
21	CCV06	CCV06	CCV	11/19/24 11:53		Mohan	OK
22	CCB06	CCB06	CCB	11/19/24 11:55		Mohan	OK
23	P4870-16	TP-15	SAM	11/19/24 11:58		Mohan	OK
24	P4887-02	MH-739	SAM	11/19/24 12:00		Mohan	OK
25	P4887-06	MH-760	SAM	11/19/24 12:02		Mohan	OK
26	P4887-06DUP	MH-760DUP	DUP	11/19/24 12:04		Mohan	OK
27	P4887-06MS	MH-760MS	MS	11/19/24 12:07		Mohan	OK
28	P4887-06MSD	MH-760MSD	MSD	11/19/24 12:09		Mohan	OK
29	P4890-06	D3721	SAM	11/19/24 12:11		Mohan	OK
30	P4892-03	WB-310-BOT	SAM	11/19/24 12:14		Mohan	OK
31	P4893-04	MH-763	SAM	11/19/24 12:16		Mohan	OK
32	P4893-08	MH-762	SAM	11/19/24 12:18		Mohan	OK
33	CCV07	CCV07	CCV	11/19/24 12:20		Mohan	OK
34	CCB07	CCB07	CCB	11/19/24 12:23		Mohan	OK
35	P4910-04	MH-COTTAGE	SAM	11/19/24 12:25		Mohan	OK
36	P4910-08	MH-759	SAM	11/19/24 12:27		Mohan	OK
37	PB165080BL	PB165080BL	MB	11/19/24 12:29		Mohan	OK
38	PB165080BS	PB165080BS	LCS	11/19/24 12:38		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133509

Review By	jaswal	Review On	11/19/2024 10:27:51 PM
Supervise By	mohan	Supervise On	11/19/2024 10:30:36 PM

STD. NAME	STD REF.#
ICAL Standard	MP83297,MP83298,MP83299,MP83300,MP83301,MP83302
ICV Standard	MP83303
CCV Standard	MP83305
ICSA Standard	
CRI Standard	MP83307
LCS Standard	
Chk Standard	MP83304,MP83306,MP83308,MP83310

39	P4861-01	WC-11-A-202411	SAM	11/19/24 12:40		Mohan	OK
40	P4861-01DUP	WC-11-A-202411DUP	DUP	11/19/24 12:43		Mohan	OK
41	P4861-01MS	WC-11-A-202411MS	MS	11/19/24 13:01		Mohan	OK
42	P4861-01MSD	WC-11-A-202411MSD	MSD	11/19/24 13:03		Mohan	OK
43	P4871-01	WC-10-A-202411	SAM	11/19/24 13:05		Mohan	OK
44	P4890-01	#3711	SAM	11/19/24 13:08		Mohan	OK
45	CCV08	CCV08	CCV	11/19/24 13:10		Mohan	OK
46	CCB08	CCB08	CCB	11/19/24 13:12		Mohan	OK
47	P4890-02	D3617	SAM	11/19/24 13:15		Mohan	OK
48	P4890-03	D3690	SAM	11/19/24 13:17		Mohan	OK
49	PB165060TB	PB165060TB	MB	11/19/24 13:19		Mohan	OK
50	PB165019TB	PB165019TB	MB	11/19/24 13:21		Mohan	OK
51	P4887-06L	MH-760L	SD	11/19/24 13:24		Mohan	OK
52	P4887-06A	MH-760A	PS	11/19/24 13:26		Mohan	OK
53	P4861-01L	WC-11-A-202411L	SD	11/19/24 13:28		Mohan	OK
54	P4861-01A	WC-11-A-202411A	PS	11/19/24 13:31		Mohan	OK
55	CCV09	CCV09	CCV	11/19/24 13:33		Mohan	OK
56	CCB09	CCB09	CCB	11/19/24 13:35		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133540

Review By	kareem	Review On	11/21/2024 7:09:26 PM
Supervise By	mohan	Supervise On	11/21/2024 10:28:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/20/24 12:17		Kareem	OK
2	S1	S1	CAL2	11/20/24 12:22		Kareem	OK
3	S2	S2	CAL3	11/20/24 12:26		Kareem	OK
4	S3	S3	CAL4	11/20/24 12:30		Kareem	OK
5	S4	S4	CAL5	11/20/24 12:35		Kareem	OK
6	S5	S5	CAL6	11/20/24 12:39		Kareem	OK
7	ICV01	ICV01	ICV	11/20/24 12:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/20/24 12:59		Kareem	OK
9	ICB01	ICB01	ICB	11/20/24 13:09		Kareem	OK
10	CRI01	CRI01	CRDL	11/20/24 13:13		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/20/24 13:17		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/20/24 13:28		Kareem	OK
13	CCV01	CCV01	CCV	11/20/24 13:35		Kareem	OK
14	CCB01	CCB01	CCB	11/20/24 13:46		Kareem	OK
15	P4890-06	D3721	SAM	11/20/24 13:50		Kareem	OK
16	P4892-03	WB-310-BOT	SAM	11/20/24 13:55		Kareem	OK
17	P4893-04	MH-763	SAM	11/20/24 13:59		Kareem	OK
18	P4893-08	MH-762	SAM	11/20/24 14:03		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133540

Review By	kareem	Review On	11/21/2024 7:09:26 PM
Supervise By	mohan	Supervise On	11/21/2024 10:28:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4910-04	MH-COTTAGE	SAM	11/20/24 14:08		Kareem	OK
20	P4910-08	MH-759	SAM	11/20/24 14:12		Kareem	OK
21	P4910-08DUP	MH-759DUP	DUP	11/20/24 14:17		Kareem	OK
22	P4910-08L	MH-759L	SD	11/20/24 14:21		Kareem	OK
23	P4910-08MS	MH-759MS	MS	11/20/24 14:26	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
24	P4910-08MSD	MH-759MSD	MSD	11/20/24 14:30	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
25	CCV02	CCV02	CCV	11/20/24 14:50		Kareem	OK
26	CCB02	CCB02	CCB	11/20/24 15:00		Kareem	OK
27	P4910-08A	MH-759A	PS	11/20/24 15:04	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
28	PB164986TB	PB164986TB	MB	11/20/24 15:09		Kareem	OK
29	PB165060TB	PB165060TB	MB	11/20/24 15:41		Kareem	OK
30	PB165118BL	PB165118BL	MB	11/20/24 15:45		Kareem	OK
31	PB165118BSRE	PB165118BSRE	LCS	11/20/24 15:50	NOT USE	Kareem	Not Ok
32	LR1	LR1	HIGH STD	11/20/24 15:59		Kareem	OK
33	LR2	LR2	HIGH STD	11/20/24 16:04		Kareem	OK
34	PB165118BS	PB165118BS	LCS	11/20/24 16:17	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133540

Review By	kareem	Review On	11/21/2024 7:09:26 PM
Supervise By	mohan	Supervise On	11/21/2024 10:28:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

35	PB165011BL	PB165011BL	MB	11/20/24 16:39		Kareem	OK
36	PB165011BS	PB165011BS	LCS	11/20/24 16:44		Kareem	OK
37	CCV03	CCV03	CCV	11/20/24 16:48		Kareem	OK
38	CCB03	CCB03	CCB	11/20/24 16:52		Kareem	OK

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165079

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/19/2024 **Time :** 13:05 **Temp :** 94 °C

End Digest Date: 12/19/2024 **Time :** 15:05 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83303
CCV	30mL	MP83305
CRA	30mL	MP83307
Blank Spike	0.48mL	MP83296
Matrix Spike	0.48mL	MP83296

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP83207
KMnO4 (5%)	4.5mL	MP83208
K2S2O8 (5%)	2.5mL	MP83209
Hydroxylamine HCL (12%)	2.0mL	MP83210
N/A	N/A	N/A
N/A	N/A	N/A
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	MP83297
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83298
2.5 ppb	S2.5	30mL	MP83299
5.0 ppb	S5.0	30mL	MP83300
7.5 ppb	S7.5	30mL	MP83301
10.0 ppb	S10.0	30mL	MP83302
ICV	ICV	30mL	MP83303
ICB	ICB	30mL	MP83304
CCV	CCV	30mL	MP83305
CCB	CCB	30mL	MP83306
CRI	CRI	30mL	MP83307
CHK STD	CHK STD	30mL	MP83308

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 @ 15:40	HG - Dig Lab	HG - manual lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165079

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4848-02	TP-1	3	30	<2	N/A	3-1
P4849-02	RR-1	3	30	<2	N/A	2
P4870-13	TP-1	3	30	<2	N/A	3
P4870-14	MH-735	3	30	<2	N/A	4
P4870-15	MH-736	3	30	<2	N/A	5
P4870-16	TP-15	3	30	<2	N/A	6
P4887-02	MH-739	3	30	<2	N/A	7
P4887-06	MH-760	3	30	<2	N/A	8
P4887-06DUP	MH-760DUP	3	30	<2	N/A	9
P4887-06MS	MH-760MS	3	30	<2	MP83296	10
P4887-06MSD	MH-760MSD	3	30	<2	MP83296	11
P4890-06	D3721	3	30	<2	N/A	12
P4892-03	WB-310-BOT	3	30	<2	N/A	13
P4893-04	MH-763	3	30	<2	N/A	14
P4893-08	MH-762	3	30	<2	N/A	15
P4910-04	MH-COTTAGE	3	30	<2	N/A	16
P4910-08	MH-759	3	30	<2	N/A	17
PB164986TB	PB164986TB	3	30	<2	N/A	18
PB165079BL	PBW079	30	30	<2	N/A	19
PB165079BS	LCS079	30	30	<2	MP83296	20

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165118

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 #2 2. N/A

Start Digest Date: 11/19/2024 **Time :** 13:00 **Temp :** 96 °C

End Digest Date: 11/19/2024 **Time :** 16:00 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JGP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6120
1:1 HCL	5.00	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL #33: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 16:10	JGP Met dig	[illegible]
	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
P4890-06	D3721	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
P4892-03	WB-310-BOT	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
P4893-04	MH-763	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	3
P4893-08	MH-762	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
P4910-04	MH-COTTAGE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
P4910-08	MH-759	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
P4910-08DUP	MH-759DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
P4910-08MS	MH-759MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	8
P4910-08MSD	MH-759MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	9
PB165060TB	PB165060TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
PB165118BL	PBW118	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
PB165118BS	LCS118	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	12

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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

TCLP Filter ID : 114771

Start Prep Date : 11/18/2024 **Time :** 16:00

End Prep Date : 11/19/2024 **Time :** 08:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Particle size reduction is not required. p4910-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 10:30	JP / TCLP Room	RS / Met Dig
	Preparation Group	**Analysis Group** RS / EXT

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165060

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
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB165060

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4890-06	D3721	N/A	N/A	N/A	N/A	100	N/A
P4892-03	WB-310-BOT	N/A	N/A	N/A	N/A	100	N/A
P4893-04	MH-763	N/A	N/A	N/A	N/A	100	N/A
P4893-08	MH-762	N/A	N/A	N/A	N/A	100	N/A
P4910-04	MH-COTTAGE	N/A	N/A	N/A	N/A	100	N/A
P4910-08	MH-759	N/A	N/A	N/A	N/A	100	N/A
PB165060TB	LEB060	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB165060

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
P4890-06	D3721	5.02	96.5	6.2	2.5	#1	4.94
P4892-03	WB-310-BOT	5.03	96.5	8.6	3.5	#1	4.94
P4893-04	MH-763	5.02	96.5	8.6	3.5	#1	4.94
P4893-08	MH-762	5.01	96.5	8.0	3.0	#1	4.94
P4910-04	MH-COTTAGE	5.02	96.5	9.1	4.5	#1	4.94
P4910-08	MH-759	5.03	96.5	8.6	4.0	#1	4.94
PB165060TB	LEB060	N/A	N/A	N/A	N/A	#1	4.94

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24 09:00
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
		% Solid:	59.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.13	U	1	0.13	0.66	mg/Kg	11/18/24 09:20	11/18/24 16:03	7196A
Trivalent Chromium	294		1	0.84	0.84	mg/Kg		11/19/24 15:53	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24 12:30
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
		% Solid:	86.1

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	11/18/24 09:20	11/18/24 16:06	7196A
Trivalent Chromium	8.36		1	0.58	0.58	mg/Kg		11/19/24 13:26	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24 12:30
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.75	H	1	0	0	pH		11/18/24 16:00	9045D
Ignitability	NO		1	0	0	oC		11/19/24 14:30	1030
Reactive Cyanide	0.0088	U	1	0.0088	0.050	mg/Kg	11/18/24 10:30	11/18/24 14:24	9012B
Reactive Sulfide	6.35	J	1	0.19	10.0	mg/Kg	11/18/24 14:50	11/19/24 09:48	9034

Comments: pH result reported at temperature 24.5 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24 08:05
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/18/24 10:14	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		11/25/24 15:50	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024 **RunNo.:** LB133491

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/18/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/18/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/18/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133497

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/18/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/18/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/18/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	11/18/2024
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/18/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133500

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Corrosivity		pH	7.01	7	100	90-110	11/18/2024
Sample ID:	**CCV1**						
Corrosivity		pH	2.01	2.00	101	90-110	11/18/2024
Sample ID:	**CCV2**						
Corrosivity		pH	12.02	12.00	100	90-110	11/18/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133501

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.094	0.099	95	85-115	11/18/2024
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	11/18/2024
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	11/18/2024
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	11/18/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133491

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133497

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/18/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133501

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	11/18/2024
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/18/2024
Sample ID: CCB2							
Reactive Cyanide	mg/L	0.0014	0.0025	J	0.00099	0.005	11/18/2024
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/18/2024

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** P4892

Project: Amtrak Sawtooth Bridges 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133491BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	11/18/2024
Sample ID: PB164985BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	11/19/2024
Sample ID: PB165024BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/18/2024
Sample ID: PB165064BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	11/18/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4860-01
Client ID: DUP-01MS
Percent Solids for Spike Sample: 96.8

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	1290		0.080	U	1330	40	97		11/18/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4860-01
Client ID: DUP-01MS
Percent Solids for Spike Sample: 96.8

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	40.2		0.080	U	41.3	2	97		11/18/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4860-01
Client ID: DUP-01MS
Percent Solids for Spike Sample: 96.8

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	33.8		0.080	U	41.3	2	82		11/18/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4892-04
Client ID: WB-310-SWMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0030	U	1.0	2	99		11/18/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4892-04
Client ID: WB-310-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0030	U	1.0	2	99		11/18/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4833-04
Client ID: MH-731DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	3.19	J	3.19	J	1	0		11/19/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4860-01
Client ID: DUP-01DUP
Percent Solids for Spike Sample: 96.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.080	U	0.080	U	1	0		11/18/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4887-01
Client ID: MH-739DUP
Percent Solids for Spike Sample: 91.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		11/19/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4887-02
Client ID: MH-739DUP
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	0.0087	U	0.0087	U	1	0		11/18/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4892-04
Client ID: WB-310-SWDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		11/18/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4892-04
Client ID: WB-310-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.99		0.99		2	0.4		11/18/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4892
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4910-08
Client ID: MH-759DUP
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	8.77		8.78		1	0.11		11/18/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133491

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133491BS								
Hexavalent Chromium	mg/L	0.5	0.51		102	1	90-111	11/18/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4892
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133497

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165024BS								
Hexavalent Chromium	mg/Kg	20	20.1		101	1	84-110	11/18/2024

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133491

Review By	rubina	Review On	11/18/2024 2:16:18 PM
Supervise By	Iwona	Supervise On	11/18/2024 4:24:37 PM
SubDirectory	LB133491	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	WP110738,WP110737,WP110735,WP110734,WP110722,WP110380,WP110736,WP110741,WP110739,WP110740

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/18/24 10:00		rubina	OK
2	CAL2	CAL2	CAL	11/18/24 10:01		rubina	OK
3	CAL3	CAL3	CAL	11/18/24 10:02		rubina	OK
4	CAL4	CAL4	CAL	11/18/24 10:03		rubina	OK
5	CAL5	CAL5	CAL	11/18/24 10:04		rubina	OK
6	CAL6	CAL6	CAL	11/18/24 10:05		rubina	OK
7	CAL7	CAL7	CAL	11/18/24 10:06		rubina	OK
8	ICV	ICV	ICV	11/18/24 10:07		rubina	OK
9	ICB	ICB	ICB	11/18/24 10:08		rubina	OK
10	CCV1	CCV1	CCV	11/18/24 10:09		rubina	OK
11	CCB1	CCB1	CCB	11/18/24 10:10		rubina	OK
12	RL Check	RL Check	SAM	11/18/24 10:11		rubina	OK
13	LB133491BL	LB133491BL	MB	11/18/24 10:12		rubina	OK
14	LB133491BS	LB133491BS	LCS	11/18/24 10:13		rubina	OK
15	P4892-04	WB-310-SW	SAM	11/18/24 10:14		rubina	OK
16	P4892-04DUP	WB-310-SWDUP	DUP	11/18/24 10:15		rubina	OK
17	P4892-04MS	WB-310-SWMS	MS	11/18/24 10:16	1ML WP108658+99.0ML SAMPLE	rubina	OK
18	P4892-04MSD	WB-310-SWMSD	MSD	11/18/24 10:17	1ML WP108658+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133491

Review By	rubina	Review On	11/18/2024 2:16:18 PM
Supervise By	Iwona	Supervise On	11/18/2024 4:24:37 PM
SubDirectory	LB133491	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	WP110738,WP110737,WP110735,WP110734,WP110722,WP110380,WP110736,WP110741,WP110739,WP110740

19	CCV2	CCV2	CCV	11/18/24 10:18		rubina	OK
20	CCB2	CCB2	CCB	11/18/24 10:19		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133497

Review By	rubina	Review On	11/18/2024 4:36:35 PM
Supervise By	Iwona	Supervise On	11/25/2024 10:26:05 AM
SubDirectory	LB133497	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	WP110722,WP110380,WP110381,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/18/24 15:30		rubina	OK
2	CAL2	CAL2	CAL	11/18/24 15:31		rubina	OK
3	CAL3	CAL3	CAL	11/18/24 15:32		rubina	OK
4	CAL4	CAL4	CAL	11/18/24 15:33		rubina	OK
5	CAL5	CAL5	CAL	11/18/24 15:34		rubina	OK
6	CAL6	CAL6	CAL	11/18/24 15:35		rubina	OK
7	CAL7	CAL7	CAL	11/18/24 15:36		rubina	OK
8	ICV	ICV	ICV	11/18/24 15:37		rubina	OK
9	ICB	ICB	ICB	11/18/24 15:38		rubina	OK
10	CCV1	CCV1	CCV	11/18/24 15:39		rubina	OK
11	CCB1	CCB1	CCB	11/18/24 15:40		rubina	OK
12	RL Check	RL Check	SAM	11/18/24 15:41		rubina	OK
13	PB165024BL	PB165024BL	MB	11/18/24 15:42		rubina	OK
14	PB165024BS	PB165024BS	LCS	11/18/24 15:43		rubina	OK
15	P4860-01	DUP-01	SAM	11/18/24 15:44		rubina	OK
16	P4860-01DUP	DUP-01DUP	DUP	11/18/24 15:45		rubina	OK
17	P4860-01MSPre	DUP-01MS	MS	11/18/24 15:46		rubina	OK
18	P4860-01MS2Ins	DUP-01MS	MS	11/18/24 15:47		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133497

Review By	rubina	Review On	11/18/2024 4:36:35 PM
Supervise By	Iwona	Supervise On	11/25/2024 10:26:05 AM
SubDirectory	LB133497	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	WP110722,WP110380,WP110381,WP108645

19	P4860-01MS3Post	DUP-01MS	MS	11/18/24 15:48		rubina	OK
20	P4860-02	PH2-BOT-001	SAM	11/18/24 15:49		rubina	OK
21	P4860-03	PH2-BOT-002	SAM	11/18/24 15:50		rubina	OK
22	P4860-04	PH2-BOT-003	SAM	11/18/24 15:51		rubina	OK
23	CCV2	CCV2	CCV	11/18/24 15:52		rubina	OK
24	CCB2	CCB2	CCB	11/18/24 15:53		rubina	OK
25	P4860-05	PH2-BOT-004	SAM	11/18/24 15:54		rubina	OK
26	P4860-06	PH2-BOT-009	SAM	11/18/24 15:55		rubina	OK
27	P4860-07	PH2-BOT-008	SAM	11/18/24 15:56		rubina	OK
28	P4860-08	PH2-BOT-007	SAM	11/18/24 15:57		rubina	OK
29	P4860-09	PH2-BOT-006	SAM	11/18/24 15:58		rubina	OK
30	P4860-10	PH2-BOT-005	SAM	11/18/24 15:59		rubina	OK
31	P4869-01	EO-02-11152024	SAM	11/18/24 16:00		rubina	OK
32	P4887-01	MH-739	SAM	11/18/24 16:01		rubina	OK
33	P4887-05	MH-760	SAM	11/18/24 16:02		rubina	OK
34	P4892-01	WB-310-TOP	SAM	11/18/24 16:03		rubina	OK
35	CCV3	CCV3	CCV	11/18/24 16:04		rubina	OK
36	CCB3	CCB3	CCB	11/18/24 16:05		rubina	OK
37	P4892-02	WB-310-BOT	SAM	11/18/24 16:06		rubina	OK
38	P4893-01	MH-763	SAM	11/18/24 16:07		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133497

Review By	rubina	Review On	11/18/2024 4:36:35 PM
Supervise By	lwona	Supervise On	11/25/2024 10:26:05 AM
SubDirectory	LB133497	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	WP110722,WP110380,WP110381,WP108645

39	P4893-05	MH-762	SAM	11/18/24 16:08		rubina	OK
40	CCV4	CCV4	CCV	11/18/24 16:09		rubina	OK
41	CCB4	CCB4	CCB	11/18/24 16:10		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133500

Review By	jignesh	Review On	11/18/2024 5:03:23 PM
Supervise By	Iwona	Supervise On	11/19/2024 9:42:43 AM
SubDirectory	LB133500	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/18/24 15:30		Jignesh	OK
2	CAL2	CAL2	CAL	11/18/24 15:31		Jignesh	OK
3	CAL3	CAL3	CAL	11/18/24 15:33		Jignesh	OK
4	ICV	ICV	ICV	11/18/24 15:35		Jignesh	OK
5	CCV1	CCV1	CCV	11/18/24 15:39		Jignesh	OK
6	P4890-06	D3721	SAM	11/18/24 15:44		Jignesh	OK
7	P4892-03	WB-310-BOT	SAM	11/18/24 16:00		Jignesh	OK
8	P4893-04	MH-763	SAM	11/18/24 16:05		Jignesh	OK
9	P4893-08	MH-762	SAM	11/18/24 16:11		Jignesh	OK
10	P4910-04	MH-COTTAGE	SAM	11/18/24 16:20		Jignesh	OK
11	P4910-08	MH-759	SAM	11/18/24 16:25		Jignesh	OK
12	P4910-08DUP	MH-759DUP	DUP	11/18/24 16:26		Jignesh	OK
13	CCV2	CCV2	CCV	11/18/24 16:30		Jignesh	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133501

Review By	Niha	Review On	11/19/2024 9:45:19 AM
Supervise By	Iwona	Supervise On	11/19/2024 1:45:32 PM
SubDirectory	LB133501	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110743,WP110744,WP110745,WP110746,WP110747,WP110748,WP110749
ICV Standard	WP110751
CCV Standard	WP110744
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110750

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/18/24 11:50		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/18/24 11:50		Niha	OK
3	10PPBCN	10PPBCN	CAL3	11/18/24 11:50		Niha	OK
4	50PPBCN	50PPBCN	CAL4	11/18/24 11:50		Niha	OK
5	100PPBCN	100PPBCN	CAL5	11/18/24 11:50		Niha	OK
6	250PPBCN	250PPBCN	CAL6	11/18/24 11:50		Niha	OK
7	500PPBCN	500PPBCN	CAL7	11/18/24 11:50		Niha	OK
8	ICV1	ICV1	ICV	11/18/24 14:16		Niha	OK
9	ICB1	ICB1	ICB	11/18/24 14:16		Niha	OK
10	CCV1	CCV1	CCV	11/18/24 14:16		Niha	OK
11	CCB1	CCB1	CCB	11/18/24 14:16		Niha	OK
12	PB165064BL	PB165064BL	MB	11/18/24 14:16		Niha	OK
13	P4887-02	MH-739	SAM	11/18/24 14:16		Niha	OK
14	P4887-02DUP	MH-739DUP	DUP	11/18/24 14:24		Niha	OK
15	P4887-06	MH-760	SAM	11/18/24 14:24		Niha	OK
16	P4892-03	WB-310-BOT	SAM	11/18/24 14:24		Niha	OK
17	P4893-04	MH-763	SAM	11/18/24 14:24		Niha	OK
18	P4893-08	MH-762	SAM	11/18/24 14:24		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133501

Review By	Niha	Review On	11/19/2024 9:45:19 AM
Supervise By	Iwona	Supervise On	11/19/2024 1:45:32 PM
SubDirectory	LB133501	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110743,WP110744,WP110745,WP110746,WP110747,WP110748,WP110749
ICV Standard	WP110751
CCV Standard	WP110744
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110750

19	P4890-06	D3721	SAM	11/18/24 14:24		Niha	OK
20	CCV2	CCV2	CCV	11/18/24 14:24		Niha	OK
21	CCB2	CCB2	CCB	11/18/24 14:24		Niha	OK
22	PB165065BL	PB165065BL	MB	11/18/24 14:24		Niha	OK
23	P4890-01	#3711	SAM	11/18/24 14:31		Niha	OK
24	P4890-01DUP	#3711DUP	DUP	11/18/24 14:31		Niha	OK
25	P4890-02	D3617	SAM	11/18/24 14:31		Niha	OK
26	P4890-03	D3690	SAM	11/18/24 14:31		Niha	OK
27	CCV3	CCV3	CCV	11/18/24 14:31		Niha	OK
28	CCB3	CCB3	CCB	11/18/24 14:31		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB133506

Review By	rubina	Review On	11/19/2024 10:44:57 AM
Supervise By	Iwona	Supervise On	11/19/2024 10:50:37 AM
SubDirectory	LB133506	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	PB164985BL	PB164985BL	MB	11/19/24 09:15		rubina	OK
2	P4833-04	MH-731	SAM	11/19/24 09:18		rubina	OK
3	P4833-04DUP	MH-731DUP	DUP	11/19/24 09:20		rubina	OK
4	P4833-08	TP-2	SAM	11/19/24 09:23		rubina	OK
5	P4848-02	TP-1	SAM	11/19/24 09:25		rubina	OK
6	P4849-02	RR-1	SAM	11/19/24 09:28		rubina	OK
7	P4870-13	TP-1	SAM	11/19/24 09:30		rubina	OK
8	P4870-14	MH-735	SAM	11/19/24 09:33		rubina	OK
9	P4870-15	MH-736	SAM	11/19/24 09:35		rubina	OK
10	P4870-16	TP-15	SAM	11/19/24 09:38		rubina	OK
11	P4887-02	MH-739	SAM	11/19/24 09:40		rubina	OK
12	P4887-06	MH-760	SAM	11/19/24 09:43		rubina	OK
13	P4890-06	D3721	SAM	11/19/24 09:45		rubina	OK
14	P4892-03	WB-310-BOT	SAM	11/19/24 09:48		rubina	OK
15	P4893-04	MH-763	SAM	11/19/24 09:50		rubina	OK
16	P4893-08	MH-762	SAM	11/19/24 09:53		rubina	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB133514

Review By	rubina	Review On	11/19/2024 4:46:48 PM
Supervise By	Iwona	Supervise On	11/19/2024 4:47:08 PM
SubDirectory	LB133514	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	P4887-01	MH-739	SAM	11/19/24 13:45		rubina	OK
2	P4887-01DUP	MH-739DUP	DUP	11/19/24 13:52		rubina	OK
3	P4887-02	MH-739	SAM	11/19/24 14:00		rubina	OK
4	P4887-05	MH-760	SAM	11/19/24 14:07		rubina	OK
5	P4887-06	MH-760	SAM	11/19/24 14:15		rubina	OK
6	P4890-06	D3721	SAM	11/19/24 14:22		rubina	OK
7	P4892-03	WB-310-BOT	SAM	11/19/24 14:30		rubina	OK
8	P4893-01	MH-763	SAM	11/19/24 14:37		rubina	OK
9	P4893-04	MH-763	SAM	11/19/24 14:45		rubina	OK
10	P4893-05	MH-762	SAM	11/19/24 14:52		rubina	OK
11	P4893-08	MH-762	SAM	11/19/24 15:00		rubina	OK
12	P4910-01	MH-COTTAGE	SAM	11/19/24 15:07		rubina	OK
13	P4910-04	MH-COTTAGE	SAM	11/19/24 15:15		rubina	OK
14	P4910-05	MH-759	SAM	11/19/24 15:22		rubina	OK
15	P4910-08	MH-759	SAM	11/19/24 15:30		rubina	OK

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LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24 09:00**			**11/15/24**
			Hexavalent Chromium	7196A		11/18/24	11/18/24 16:03	
			Trivalent Chromium	6010D			11/19/24 15:53	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24 12:30**			**11/15/24**
			Hexavalent Chromium	7196A		11/18/24	11/18/24 16:06	
			Trivalent Chromium	6010D			11/19/24 13:26	
P4892-03	**WB-310-BOT**	**SOIL**			**11/15/24 12:30**			**11/15/24**
			Corrosivity	9045D			11/18/24 16:00	
			Ignitability	1030			11/19/24 14:30	
			Reactive Cyanide	9012B		11/18/24	11/18/24 14:24	
			Reactive Sulfide	9034		11/18/24	11/19/24 09:48	
P4892-04	**WB-310-SW**	**WATER**			**11/15/24 08:05**			**11/15/24**
			Hexavalent Chromium	7196A			11/18/24 10:14	
			trivalent Chromium	6010D			11/25/24 15:50	

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164985

15

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 11/18/2024 **Time :** 14:50 **Temp :** N/A

End Digest Date: 11/18/2024 **Time :** 16:20 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: IZ

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP108780
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

11/18/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164985

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4833-04	MH-731	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4833-04DUP	MH-731DUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4833-08	TP-2	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4848-02	TP-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4849-02	RR-1	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4870-13	TP-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4870-14	MH-735	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4870-15	MH-736	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4870-16	TP-15	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4887-02	MH-739	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4887-06	MH-760	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4890-06	D3721	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4892-03	WB-310-BOT	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4893-04	MH-763	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4893-08	MH-762	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164985BL	PBS985	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB165024

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: 11/18/2024 **Time :** 09:20 **Temp :** 90 °C

End Digest Date: 11/18/2024 **Time :** 10:20 **Temp :** 95 °C

1 batch 11/18/2024 10:40 90c JRM
11/18/2024 11:40 94c

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: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP110633
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	WP110733
CAL3	CAL3	0.5ML	WP110733
CAL4	CAL4	1ML	WP110733
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

11/18/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB165024

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4860-01	DUP-01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-01MSPre	DUP-01MSPRE	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-01MS2Ins	DUP-01MS2INS	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-01MS3Post	DUP-01MS3POST	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-01DUP	DUP-01DUP	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-02	PH2-BPT-001	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-03	PH2-BPT-002	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-04	PH2-BPT-003	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-05	PH2-BPT-004	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-06	PH2-BPT-009	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-07	PH2-BPT-008	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-08	PH2-BPT-007	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-09	PH2-BPT-006	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4860-10	PH2-BPT-005	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4869-01	EO-02-11152024	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4887-01	MH-739	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4887-05	MH-760	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4892-01	WB-310-TOP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4892-02	WB-310-BOT	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4893-01	MH-763	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4893-05	MH-762	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
PB165024BL	PBS024	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB165024BS	LCS024	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB165064

15

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 11/18/2024 **Time :** 10:30 **Temp :** N/A

Matrix : SOIL

End Digest Date: 11/18/2024 **Time :** 12:00 **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	N/A	WP108640
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11.18.2024, 12:15	NF(WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB165064

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4887-02	MH-739	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4887-02DUP	MH-739DUP	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4887-06	MH-760	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4890-06	D3721	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4892-03	WB-310-BOT	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4893-04	MH-763	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4893-08	MH-762	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
PB165064BL	PB165064BL	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4891 / P4892
QUOTE NO.
COC Number 2042035

16
16.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-321-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's replacement of Sawtooth Bridge
PROJECT NO.: 950000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: ~~bems~~ QAQC@bemsys.com
PHONE: 610-321-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: ~~Chem~~ Alliance/chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOC HQ
2 TCL PAH
3 TAL Metals
4 PCB's
5 Cl, Cl2, Cl(-)
6 EPH
7 FIAA TCAP
8 RCRA PARA
9 TOX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3 (B)	4	5 (F)	6	7	8	9	COMMENTS
1.	WB-310-SW	GW	X		11/15	8:05	7	X	X	X	X	X	X				
2.	WB-310-TOP	S	X		11/15	9:00	10	X	X	X	X	X	X				
3.	WB-310-Bot.	S	X		11/15	12:30	9	X	X	X	X	X	X	X	X	X	
4.	TB-111524	DIW			11/15	LAB	2	X									
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Vanessa	11/15 5:02pm	1. 1702 11-15-24
2.		2.
3.	11-15-24 1705	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.0 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Monday, November 18, 2024 12:48 PM
Subject: Re: Chemtech/Alliance - Pick up

Noted, thankyou!

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Vrunda Pujara <vpujara@yu-associates.com>
Sent: Monday, November 18, 2024 12:44 PM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>; jkrupansky@gfnet.com <jkrupansky@gfnet.com>
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: RE: Chemtech/Alliance - Pick up

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Secured by Check Point

Kiran,

Yes, kindly proceed without the Trip blank.

Thanks,

Vrunda Pujara
Senior Staff Engineer

YU & Associates
611 River Drive, 3rd Floor* | Elmwood Park | NJ 07407
D: 201.791.0075 **F:** 201.791.4533

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Monday, November 18, 2024 12:43 PM

To: Vrunda Pujara <vpujara@yu-associates.com>; jkrupansky@gfnet.com
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: Re: Chemtech/Alliance - Pick up

[EXTERNAL]
Vrunda,

Sure, we will stick to the IDs on the chain. What about the missing TB-11152024, should we proceed without them?

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Vrunda Pujara <vpujara@yu-associates.com>
Sent: Monday, November 18, 2024 12:37 PM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>; jkrupansky@gfnet.com <jkrupansky@gfnet.com>
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: RE: Chemtech/Alliance - Pick up

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Secured by Check Point

Hello Kiran,

Thank you for reaching out. The sample ID should be WB-310-TOP. And for Groundwater, I'm not sure if I have mentioned WB-310-SW in the labels, kindly use the ID's in the COC for report. They are the correct ID's.

Thanks,

Vrunda Pujara
Senior Staff Engineer

YU & Associates
611 River Drive, 3rd Floor* | Elmwood Park | NJ 07407
D: 201.791.0075 **F:** 201.791.4533

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Monday, November 18, 2024 11:01 AM
To: jkrupansky@gfnet.com; Vrunda Pujara <vpujara@yu-associates.com>
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: Re: Chemtech/Alliance - Pick up

You don't often get email from kiran.saleem@alliancetg.com. Learn why this is important

[EXTERNAL]
Hi Joseph and Vrunda,

I am reaching out with a query.

1. The sample ID on the sample does not match with the sample ID on the COC for the 'TOP'. Is says 'WB-310-BOT' on COC and 'WB-301-BOT' on the sample. Please let me know which one is correct.

2. Also, the sample management informed me that the cooler is missing TB-11152024 samples (2 samples).

Please let me know at your earliest convinence.

Thanks.

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Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, November 15, 2024 11:05 AM
To: Vrunda Pujara <vpujara@yu-associates.com>
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: Re: Chemtech/Alliance - Pick up

Hi Vrunda,

Sure, I have informed the driver, he will reach out to you.

Let me know if anything changes.

Thanks.

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Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Vrunda Pujara <vpujara@yu-associates.com>
Sent: Friday, November 15, 2024 10:58 AM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Cc: Chengyu Hang <chang@yu-associates.com>
Subject: Re: Chemtech/Alliance - Pick up

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Secured by Check Point

Hello Kiran,

Sure, my contact information is 732-589-9580. Kindly have the dispatcher contact me when he is near, I'll be ready with the samples.

Thanks,
Vrunda Pujara

Get Outlook for iOS

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, November 15, 2024 10:54:49 AM
To: Vrunda Pujara <vpujara@yu-associates.com>
Subject: Chemtech/Alliance - Pick up

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[EXTERNAL]
Hi Vrunda,

Can you share your cell number, the driver wants to get in touch regarding pick up.
Thanks.

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Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4892 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 11/18/2024 8:10:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 11/15/2024 5:45:00 PM
Purchase Order :

Project Mgr : Kiran
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff : 11/18/2024 12:55:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4892-01	WB-310-TOP	Solid	11/15/2024	09:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4892-02	WB-310-BOT	Solid	11/15/2024	12:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4892-04	WB-310-SW	Water	11/15/2024	08:05					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 11-18-24 1322

Received By :
Date / Time : 11/18/24 1322
Storage Area : VOA Refridgerator Room